Great Leaders

inspire greatness in others

-Lolly Daskal
10,000+ beds
11,000+ doctors
5500+ pharmacies
370+ clinics
75 hospitals
25 million health checks
500+ telemedicine centres
Serving patients from across 150 nations
22,000 Solid Organ Transplants
First center to perform 1500+ Organ Transplants a year in the World
1,97,000 Neuro Surgeries
20,000+ Cardiac Surgeries
3,00,000+ Coronary Angioplasties
3,90,000+ Ortho Surgeries
10,000+ Robotic Assisted Surgeries
10,000 Health Checks in a year
25 million health checks

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THE YEAR 2022
Apollo Hospitals remains focussed in its mission to deliver healthcare of unmatched standards for its patients, from both India and abroad. Apollo Hospitals' signature care is based out of its continued efforts to strengthen clinical, academic and research excellence, in order to meet the evolving needs of the patients. By embracing clinical innovation, technology and digital prowess, Apollo Hospitals is transforming healthcare delivery so as to achieve best outcomes and maximize community outreach.

The Apollo Standards of Clinical Care (TASCC) embodies standardization of processes and outcomes for clinical excellence and patient safety, across all the Group Hospitals. TASCC scores showed a steady increase from 282 in 2012 to 454 in 2022 for Group A hospitals, from 225 in 2012 to 450 in 2022 for Group B hospitals and from 182 in 2012 to 370 in 2022 for Group C hospitals, reflecting increasing standardisation of processes and improving outcomes.

Group average scores for Apollo Clinical Excellence Scorecard (ACE 1) showed an improvement from 72 in 2010 to 91 in 2022. Apollo Hospitals, Navi Mumbai, reporting Group A parameters, Apollo Hospitals, Nellore, reporting Group B parameters and Apollo First Med Hospitals reporting Group C parameters were declared ACE 1 champions and were awarded the trophies along with cash prizes.

In 2022, 208 nominations were received for Apollo Innovation and Quality Awards, a platform that felicitates and rewards hospitals within the Apollo Group for their diligent efforts and innovations to persistently improve patients care, quality and safety.

Apollo Clinical Awards provide a platform that honours and recognizes Consultants who have achieved path breaking clinical, academic and research related success. Thirty Consultants were felicitated at this forum in 2022.

Our Consultants continued their pursuit of excellence by treating complicated cases and performing rare procedures, while also writing books and contributing book chapters, publishing their clinical research and cases in medical journals worldwide, lecturing nationally and internationally and receiving numerous awards from various governmental and nongovernmental organizations.

Five hundred and seventeen research papers by our consultants were recognized and more than 300 consultants contributed their achievements for publication in this report.

The Adjunct Titles of Professor and Associate Professor of Apollo Hospitals Educational and Research Foundation (AHERF) have been conferred upon 158 Consultants. One hundred and seventy Consultants hold Adjunct Titles of Tutors. Thirty-nine Consultants have been conferred with Adjunct Title of International Professor of AHERF.

The National Board of Examinations (NBE) has accredited Apollo Hospitals for training and examinations in 16 broad specialities, 22 super specialities besides 10 Postdoctoral Fellowship (FNB) programs and 4 Diploma Programmes. In 2022, there were 641 DNB/FNB seats in the Apollo Hospitals Group with 1118 trainees pursuing DNB/FNB programs across 18 hospitals.
In order to upskill the knowledge and expertise of doctors, under the aegis of the Apollo Continuous Medical Education Program, 1356 CMEs were conducted which were attended by 57515 doctors from across the country and overseas.

Apollo Research and Innovations (ARI) has conducted over 1300 clinical studies and currently 150 clinical trials are on-going at various Apollo Hospitals.

Eight Apollo Hospitals are accredited by Joint Commission International (JCI). The total number of National Accreditation Board for Hospitals and Healthcare Providers (NABH) accredited Apollo Hospitals increased to 32.

Over 1070 Apollo Knowledge Series sessions were conducted in 2022. These sessions engaged over 22000 doctors representing the clinical diaspora from India and abroad.

Apollo Antimicrobial Stewardship was officially launched by Chairman Dr Prathap C Reddy in 2022. It is India’s largest stewardship programme covering 75 Apollo Hospitals across the country.

The 9th edition of the International Patient Safety Conference (IPSC) and the 10th International Conference on Transforming Healthcare with Information Technology (THIT) was held on the 13th and 14th February 2023 at Taj Palace, New Delhi. The conference was a powerful platform where best practices and innovations in patient safety were shared.

In the year 2022, the Apollo Genomics Institute expanded from a single center in Delhi to seven centers across the Apollo Hospitals network.

Apollo Education UK (AEUK) has launched the Apollo International Clinical Fellowship Programme (ICFP), as a part of its Global Workforce Development (GWD) initiative.

The Apollo Institute of Robotic Surgery has successfully performed more than 10,000 procedures and is committed to providing patients with exceptional clinical outcomes.

For Apollo HomeCare, the year 2022 has been a year of rapid expansion to 15 cities.

Apollo 247 launched the Clinical Intelligence Engine (CIE), an AI based intuitive clinical assistant for doctors to power primary care, condition management, home care and wellness. CIE at present understands a combination of over 1200 common and rare diseases prevalent in the region along with 800 unique symptoms, to assist doctors with faster differential diagnosis and more efficient clinical management. The tool has so far been adopted by 4000 doctors.

Information Security Management System - ISO/IEC 27001:2013 has been implemented at all Apollo Hospitals. This standard applies to the health information infrastructure of Data Centres located at the Apollo Hospitals and the supporting activities viz. IT Support, Medical Records Management, HR, Admin and Facility Management.

Apollo Hospitals has received Level 9 Achievement for Acute and Ambulatory care setting in the coveted Digital Health Most Wired Survey 2022 results released by the College of Healthcare Information Management Executives (CHIME).

Apollo Remote Healthcare began its journey over 22 years ago and has witnessed the establishment of more than 800 healthcare centres in public-private-partnership (PPP) mode. By touching the lives of more than 17 million people, Apollo Remote Healthcare today is the largest telemedicine provider in the world.
Under the aegis of Corporate Social Responsibility (CSR), the various programs run by Apollo for the benefit of the community included Total Health Program, Billion Hearts Beating Campaign and others. Situated in the Thavananpalle Mandal of Chittoor District, Andhra Pradesh, ‘Total Health’ is India’s first integrated rural healthcare service delivery network in the private sector.

Apollo Hospitals Group was conferred 72 awards and accolades at various national and international fora in 2022.

Our Founder and Chairman, Dr Prathap C Reddy, was conferred with the Lifetime Achievement Award by Forbes India for his colossal vision in revolutionizing healthcare delivery in India.

UAE Waterfalls Global Award 2022, was conferred upon Apollo Hospitals Group for services rendered to humanity during the pandemic period.

At the Asian Hospital Management Awards 2022, Apollo Hospitals Group won four awards. International Hospital Federation (IHF) Awards 2022, Apollo Hospitals Group won seven awards. The Best Hospital Survey 2022, conducted by THE WEEK, ranked Apollo Hospitals, Chennai as the best corporate multi-speciality hospital in the country. The All India Critical Care Hospital Ranking Survey 2022, conducted by the Times of India ranked Apollo Hospitals, Chennai as the best multispeciality hospital in India for the specialties of Cardiology, Obstetrics and Gyane, Nephrology, Pediatrics, Neuroscience, Urology, Gastroenterology and Hepatology, Emergency and Trauma. Several Apollo Hospitals were ranked as best hospitals in their region and specialities, in both THE WEEK and All India Critical Care Hospital Ranking Survey.

The Newsweek, World’s Best Hospitals 2022 has ranked Apollo Hospitals, Chennai, amongst the top 250 hospitals in the world. The survey ranked Apollo Cancer Center, Chennai amongst the top 250 hospitals for Oncology and Apollo Children’s Hospital, Chennai amongst the top 250 for pediatrics in the world.

As we traverse through the passage of time in 2023, let us accelerate efforts to further improve care for our patients, build staff capabilities and meet the needs of the communities across the world...for now and the future!
CLINICAL EXCELLENCE
CLINICAL EXCELLENCE

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Clinical Excellence

The Apollo Standards of Clinical Care (TASCC)

Apollo Hospitals Group aims at establishing the highest standards of clinical care and patient safety for all its hospitals irrespective of their location and size. The Apollo Standards of Clinical Care (TASCC) was implemented across Apollo Hospitals to standardize processes and outcomes for clinical excellence and patient safety. It encompasses eight initiatives – Apollo Clinical Excellence dashboards (ACE 1 and ACE 2), Apollo Quality Program (AQP), Apollo Mortality Review (AMR), Discharge Summary, Clinical Governance / Apollo Learning Together, ICU Checklist and Safe Surgery Checklist. TASCC was implemented in January 2012.

TASCC scores showed a steady increase from 282 in 2012 to 454 in 2022 for Group A hospitals, from 225 in 2012 to 450 in 2022 for Group B hospitals and from 182 in 2012 to 370 in 2022 for Group C hospitals, showing increasing standardisation of processes and improving outcomes.
Apollo Clinical Excellence Scorecard – ACE 1

Earlier known as ACE@25, this scorecard has been renamed as ACE 1 in 2015 with revisions in indicators and benchmarks. Group average scores for ACE 1 showed an improvement from 72 in 2010 to 91 in 2022.

ACE 1 is a clinical balanced scorecard incorporating 25 clinical parameters involving complication rates, mortality rates, one-year survival rates, and an average length of stay after major procedures like liver and renal transplant, CABG, TKR, THR, TURP, PTCA, and endoscopy covering all major specialities.

Also included are hospital-acquired infection rates and patient satisfaction with pain management. Parameters have been benchmarked against the published benchmarks of the world’s best hospitals including Cleveland Clinic, Mayo Clinic, National Healthcare Safety Network, University of California, San Francisco, and Agency for Healthcare Research and Quality US. The weighted scores for outcomes are color-coded green, orange and red. The cumulative score achievable is capped at 100.

The collective data for all locations can be viewed by the Group Leadership at any point of time. There is an “ACE 1” Champion Award for the highest scorer.

In 2022, 40 hospitals reported ACE 1 data. Eight hospitals (Ahmedabad, Bangalore, Chennai, Delhi, Hyderabad, Kolkata, Navi Mumbai and Proton Cancer Centre) reported data for Group A parameters, 20 hospitals (Bilaspur, Madurai, Mysore, Bhubaneshwar, Karimnagar, Secunderabad, Hyderguda, Trichy, Vanagaram, Indore, ASH OMR, Nashik, Nellore, Seshadripuram, Health City Vizag, Guwahati, Lucknow, Kochi, Jayanagar and Excelcare Guwahati) reported data for Group B parameters and 12 hospitals (Apollo First Med Hospitals, Teynampet, Tondiarpet, Kakinada, Noida, Apollo Children’s Hospital, DRDO, Karur, Karaikudi, AWH SMR, Vizag and Aragonda) reported data for Group C parameters.
Example of an ACE 1 parameter

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Benchmark</th>
<th>Range</th>
<th>Scoring</th>
</tr>
</thead>
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<tr>
<td><strong>ALOS post angioplasty</strong></td>
<td><strong>2.5 days</strong></td>
<td>&lt;2.5</td>
<td>4</td>
</tr>
<tr>
<td><strong>US National Average</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.51-3.00</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.01-3.50</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.51-4.00</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;4.00</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Few examples of outcome parameters trends:

- **Average length of stay (ALOS) in ICU**, Apollo Hospitals A
- **ALOS post microdisectomy**, Apollo Hospitals B
- **Unplanned returns to theatre**, Apollo Hospitals C
- **Measurement of Kt/V or urea reduction ratio (URR)** in patients on haemodialysis, Apollo Hospitals D
- **Catheter related urinary tract infection (CR-UTI)**, Apollo Hospitals E
Ventilator associated pneumonia (VAP), Apollo Hospitals F

Average length of stay (ALOS) in hospital, Apollo Hospitals G

Catheter related blood stream infections (CR-BSI), Apollo Hospitals H

ALOS post angioplasty, Apollo Hospitals I

Patient satisfaction with pain management, Apollo Hospitals J

ALOS post TKR, Apollo Hospitals K
ACE 1 Awards

ACE 1 clinical excellence scorecard data has been reported for the last 14 years. The outstanding performance in each hospital reporting Group A, Group B, and Group C parameters is recognized every year. The Average ACE 1 score for each hospital is computed. The hospital scoring the maximum is awarded the ACE 1 Champion Award.

Apollo Hospitals, Navi Mumbai, reporting Group A parameters, Apollo Hospitals, Nellore, reporting Group B parameters and Apollo First Med Hospitals reporting Group C parameters, were declared ACE 1 champions and were awarded trophies along with cash prizes.
Apollo Quality Program (AQP)

The Apollo Quality Program was started in December 2010 to implement patient safety practices in all our Apollo Hospitals irrespective of the accreditation status. It covers five broad areas: Effective Communication, Surgical Safety, Medication Safety and Blood Transfusion Safety, the Six International Patient Safety Goals of JCI and Standardisation of Minimum Content of Medical Records. An analysis of the parameters in 2022 has shown an increase in compliance levels for various parameters. The average AQP scores at group level have also increased from 75 in 2011 to 89 in 2022.

Below are a few examples of improvement at different Apollo locations:

**Percentage compliance to use of nursing handover form for patient handover, Apollo Hospitals A**

**Percentage compliance to use of physician handover form for patient handover, Apollo Hospitals B**
Percentage compliance IPSG 5 hand washing, Apollo Hospitals G

Percentage compliance IPSG 6 falls prevention measures, Apollo Hospitals H

Percentage of patients receiving antimicrobial prophylaxis one hour before surgery, Apollo Hospitals I
Quality Teams Activities at Apollo Hospitals

Quality improvement in healthcare means a systematic approach that monitors, assesses and improves the standards of quality healthcare. Quality improvement is meant for enhancing safety, effectiveness and efficiency. It is an ongoing process that helps to continually find new and better ways of doing things so that patient care can be enhanced for improved satisfaction and better outcomes. The challenge is to get better each year.

The following initiatives were undertaken in 2022 at Apollo Hospitals:

- Compliance to Project 365 scaled upto 92%
- More than 39 unplanned downtime drills were conducted
- Compliance to standardization of medication management was achieved upto 98%
- Improved online incident reporting
- Announcement for ‘Good Catch’ awards to encourage near-miss incidents reporting
- Over 7500 'Quality Toolbox Talks' and 1200 'Flash Meetings' were conducted across all hospitals
- More than 80 clinical audits were conducted and more than 75 clinical pathways were implemented
- Over 28 quality improvement and patient safety workshops, virtual trainings and webinars were conducted
- Over 44 youtube videos were launched

Process Standardization was achieved for the following:

- IDTR
- Discharge Summary
- Medication Reconciliation
- PFE
- Ambulance
- Consent
- Security
- Radiology
- OT Scheduling

Focussed Monthly Activities

- Infection Control Month
• Medication Safety Month

Medication Safety awareness

• Safety Events Awareness

Training and Awareness on Safety Culture Survey  Biomedical Equipment Safety  Kitchen Safety  Fire Safety

Hazmat Safety

Bio-Medical Waste Disposal  Equipment Safety  Security safety awareness
Safety Culture Survey

The safety culture survey score improved from 72.5 in 2020 to 82.5 in 2022. The results, were analyzed to drill down the reasons of outcomes and plans were developed for improvement.

Quality Book Launch

The book titled 'Qualitinomics' was launched. Well-researched and intricately structured, this handbook showcases on Apollo's unshakeable commitment to quality healthcare. It contains an in-depth analysis of patient safety norms, covering everything from policies to processes and procedures. 'Qualitinomics' provides invaluable insights and ideas for achieving excellent performance in this quest for quality for every healthcare professional.

Safety Culture Survey Score:

- 2020: 72.5
- 2022: 82.5

Facility Safety Month

- World Patient Safety
- World Quality Day
- World Anesthesia Day
- IPSG Focused Month

Quality Book Launch

- 'Qualitinomics', the book authored by the Quality Team, Apollo Hospitals
Apollo Health and Lifestyle Limited (AHLL)

Apollo Health and Lifestyle Limited (AHLL) is an Apollo Group initiative which takes healthcare services from the hospital settings, closer to home within neighbourhood locations, in order to serve the community better. It is a network that has various healthcare business verticals like, Apollo Clinics, Apollo Cradle, Apollo Spectra Hospitals, Apollo Diagnostics, Apollo White Dental and Apollo Dialysis.

Apollo Clinic was introduced with the vision of serving local communities and making world-class healthcare available for daily health needs in the neighbourhoods.

Apollo Sugar provides end-to-end care and management of diabetes and related complications to the community.

Apollo Cradle was the first to introduce the concept of an exclusive, standalone healthcare centre for women and offers pediatric care too.

Apollo Spectra provides world-class surgical care that is accessible and available at an affordable cost.

Apollo Diagnostics provides a full spectrum of high precision diagnostic services.

Apollo WHITE is a first of its kind dental care brand that provides cosmetic dentistry as well as simple affordable dental services.

Apollo Fertility offers several specialized procedures for infertility in men and women giving couples their very best chance of a successful pregnancy.

Apollo Spectra Hospitals

Achievements in 2022:

NABH assessments were successfully conducted in 15 units.

Kidney transplant program was successfully initiated at Big Apollo Spectra Hospital, Patna and RJn Apollo Spectra Hospital, Gwalior.

Quality for Excellence (Q4E) Awards 2022

The Quality for Excellence (Q4E) Programme ensures continuous quality improvement across all the AHLL platforms and centres, through its various initiatives like Q4E outcome measures programme, Q4E surveys, peer audits and accreditation standards implementation. Q4E Awards are part of the Q4E programme wherein the best performing centre in terms of quality is given recognition. The winning centre is awarded a trophy on Founder’s Day.
Apollo Sugar Clinics

Apollo Sugar Clinics obtained full approval from DCGI (CDSCO) for performing I-Step Clinical Trials. The first Endobarrier Delivery (I-Step Clinical Trail) was performed in a patient at Apollo Hospitals, OMR in Chennai. This is first patient in Asia to receive an Endobarrier for Diabetes Management and Obesity.

Two point of care tests in Apollo Sugar Clinics network were launched – C-Peptide and GAD.

Apollo Dialysis

Apollo Dialysis, operates 112 clinics across India.

- Launch of the 100th dialysis clinic
- Consistently achieved targeted outcome measure of dialysis adequacy >1.23
- Average dialysis frequency raised from 9.2 to 10.2 per patient per month
- Undertook 1600+ sparkling 'Friday Activities', which specially focused on improving unit maintenance and ambience
- Conducted 180 clinical training programs with more than 3100+ man-hours training
- Organized ISO 23500:2019 on water quality standards workshop, participated by 200+ employees
- Initiated and conducted 4 CME training sessions for DMO's and clinical staff
- Celebrated special days like World Kidney Day, World hand Hygiene Day, World Hepatitis Day and World Patient Safety Day across all the clinics
- Initiated personal diet counselling sessions to all dialysis patients through dietician / nutritionist.
- Amalapuram clinic team was felicitated at district level for outstanding services by Sri Himanshu Shukla, IAS
Apollo Diagnostics

Apollo Diagnostics, operates 105 laboratories and 1450 collection centers across India.

The following are the achievements in 2022:

- Launched 10 new laboratories across India
- Received ‘Certificate of Appreciation’ from FRANCHISEINDIA
- Received ISO 9001:2015 Certification for Diagnostics Home Collection Services
- NABL accreditation was received by 13 laboratories and one laboratory obtained accreditation from the College of American Pathology
- Launched high-end maternal testing NIPT at Global Reference laboratory
- Launched home portable ECG services and delivered >100 sessions
- Adopted technology for tracking logistics field executives through online portals Neuron APP
- Progress in reporting TAT. All routine reports TAT is >90%
- Celebrated special days: World hand Hygiene Day, World Quality Day and World Patient Safety Day across all laboratories

Apollo Knowledge Series

Apollo Knowledge Series (AKS) is committed to empower clinicians beyond Apollo by providing them with access to knowledge and practical experience. Apollo Knowledge Series is the result of knowledge gained over four decades of providing high-quality educational programs for doctors, nurses and other healthcare professionals worldwide.

The Knowledge Series are categorised as under:

- MediNew: The MediNew series are based on latest developments across different medical and surgical specialities
- MediVance: The MediVance series are based on topics that are highly specialised and include innovations and advancements related to super specialities

The clinical and research information for education by the Knowledge Series enables participants to improve not only their skills and knowledge but also the clinical outcomes for their patients.

Key Highlights of the AKS in 2022

- Over 1070 Apollo Knowledge Series CME sessions were conducted during January-December 2022. These sessions engaged over 22000 doctors representing the clinical diaspora from India and beyond borders
- Medinew Series: Over 384 offline, in-person sessions and 172 online sessions were conducted
- MediVance Series: Over 436 offline sessions and 87 online sessions were conducted
- The AKS sessions were orchestrated by super-specialists from 22 Apollo Hospitals
- From innovative and path breaking treatments to outstanding clinical outcomes, Apollo specialists from over 15 clinical disciplines have showcased their findings and knowledge in the AKS sessions.
Apollo Learning Together (ALT)

*Something to learn, something to teach*

The Clinical Governance Committees (CGC) were formed with the aim of creating collaboration between Consultants and Unit Leadership to ensure high standards of clinical care and service performance.

Different Clinical Governance Meetings (CGMs) are held at regular intervals in each unit.

ALT aims to ensure that meetings for the CGMs committees are conducted insightfully, as per the defined frequency across the all the Apollo Hospitals.

This program establishes a “Learning Loop” that encompasses gaining knowledge, reflection and application of what has been learnt.

![Apollo Knowledge Series - CME sessions](image)

**Number of Clinical Governance Meetings Reviewed in 2022**

- April: 24
- May: 77
- June: 85
- July: 99
- Aug: 129
- Sept: 140
- Oct: 124
- Nov: 130
- Dec: 137
Apollo Clinical Transformation (ACT)/ Learning Management System (LMS)

Human capital / human resource is the most important asset for Apollo Hospitals. The quality of patient care primarily depends on the performance of clinical staff. Hence, it is important to attract talented clinical staff and engage them via continuous learning at workplace and create an academic value for them. LMS, the e-learning helps in meaningful engagement with the clinical staff. The platform equips them with continuous access to knowledge bank with respect to contemporary patient care and clinical procedures.

KitePro LMS online training is an online learning platform that aims to augment the training and medical education of junior doctors working at Apollo Hospitals. This learning platform helps junior doctors to learn and further develop their competencies for better clinical outcomes. Creating this learning framework helps standardize the learning modules across the Group. The framework offers trainees specific learning hours per month and enables HR to track and measure consistency in performance.

Objective

- To leverage Medvarsity’s KitePro platform to onboard, assign learning modules, track measure and report progress through specific learning activities
- To empower junior doctors with basic skills of hospital care
- To enhance cognitive thinking of junior doctors with respect to patient care
- To impart skills that enable junior doctors to move towards the next level of proficiency

Course outline

- The modules and the curriculum are built as per the recommendation by the National Medical Commission (NMC) and other governing bodies as appropriate
- The course contents, modules are tailored according to the specialties/department
- Course duration, validity for each course
- Evaluations (pre and post evaluation)
- Certificate of completion
- Levels of training courses (basic, advanced)
- Training man hours are calculated and linked to monthly attendance

Apollo Continuous Medical Education Program

Continued Medical Education (CME) is an essential requirement of all practicing clinicians to keep themselves abreast of the recent advancements in healthcare.

The CMEs are also a very powerful medium to reach out to the community physicians. Various CME programs have been designed to cater to the professional development needs of the doctors with respect to their expertise level and interests. Through these programs, Apollo Hospitals was able to touch base and up-skill the knowledge and skills of the doctors practising in the community.

Apollo Clinical Program (ACP)

For General Practitioners, ACP aims to upskill the General Physicians (GPs) and covers important practice areas like Non-Communicable Diseases (NCDs).
Apollo Clinical Innovation Group (ACIG)

Apollo Hospitals have been the pioneers in the adoption of new technology and treatment protocols. A structured decision-making process that involves stakeholders at all levels is instrumental in establishing this position. Proposals are thereafter submitted to the senior leadership for their final approval.

The Apollo Clinical Innovation Group (ACIG) has been formulated to delineate as well as introduce the latest technologies, best practices and clinical innovation for implementation across Apollo Hospitals Group.

In 2022, ACIG conducted 24 meetings and engaged 252 consultants to formulate the proposal for the adoption of 110 innovations in 12 specialties.

**MediNew and SurgiNew**

MediNew and SurgiNew are professional development programs for specialist doctors in the field of Internal Medicine, Orthopaedics, Laparoscopic Surgery, Paediatrics, Gynaecology, ENT, Pathology and Radiology.

**MedVance and SurgVance**

MedVance and SurgVance are designed to enhance the skills of super-specialists. These programs provide a platform for sharing medical advancements such as innovative technologies and techniques, newer drugs and treatment protocols. This program has been designed for super-specialist doctors in the field of Neurology, Neurosurgery, Nephrology, Transplants, Oncology, Cardiology, Cardiac Surgery, Critical Care, Endocrinology, Gastroenterology, Urology and Rheumatology.

CME credit points are also given by the respective State Medical Councils for these programs. Partnerships with various pharmaceutical, medical devices and biotech companies have been established for effective outreach.

### Target Audience
- General Practitioners
- Specialists
- Super Specialists

### CME Program
- Apollo Clinical Programme
- Medinew and Surginew
- Medvance and Surgvance

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<tr>
<th>1356</th>
<th>CMEs Conducted in 2022</th>
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<tr>
<td>57515</td>
<td>External Doctors Attended the Apollo CMEs in 2022</td>
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Some important Innovative Procedures, Processes and Technologies implemented in 2022:

<table>
<thead>
<tr>
<th>Innovation Procedures, processes or technology</th>
<th>Implementation/availability at Apollo Hospitals locations</th>
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<tbody>
<tr>
<td>TAVI/TAVR</td>
<td>Ahmedabad, Delhi, Chennai, Hyderabad, Navi Mumbai, BG Road-Bangalore, Kolkata, Lucknow, Trichy, Indore, Vanagaram, Vizag, Seshadripuram</td>
</tr>
<tr>
<td>Prostatic Artery Embolization</td>
<td>Delhi, Chennai, Ahmedabad, Kolkata, Hyderabad, Guwahati, Bilaspur, Lucknow, OMR Chennai, Madurai, Vanagaram, Bhubaneswar, Seshadripuram, Madurai, Bilaspur, Lucknow</td>
</tr>
<tr>
<td>HIPEC (Hyperthermic Intraperitoneal Chemotherapy)</td>
<td>Ahmedabad, Chennai, Delhi, Kolkata, Navi Mumbai, BG Road-Bangalore, Lucknow, Pune, Secunderabad, Seshadripuram, Kochi, Vizag</td>
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<tr>
<td>O-Arm</td>
<td>BG Road-Bangalore, Hyderabad</td>
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<td>Neuro Suite</td>
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<tr>
<td>3-D Optical Coherence Tomography (OCT)</td>
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<tr>
<td>Neuro-Rehab</td>
<td>Navi Mumbai, Hyderabad</td>
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<td>Peroral Endoscopic Myotomy-POEM</td>
<td>Delhi, Kolkata</td>
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<td>Single use ERCP Endoscope</td>
<td>Lucknow</td>
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<td>Stem Cell and PRP therapy in difficult Infertility</td>
<td>Navi Mumbai</td>
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<td>Shockwave Intravascular Lithotripsy</td>
<td>Bhubaneswar, Madurai, Mysore, Navi Mumbai, Seshadripuram, Trichy, BG Road-Bangalore, Indore</td>
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<td>RFID in Blood Banking</td>
<td>Delhi</td>
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<tr>
<td>Digital Mobile Radiography</td>
<td>Navi Mumbai, Chennai</td>
</tr>
<tr>
<td>Epilepsy Clinic</td>
<td>Hyderabad</td>
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<tr>
<td>Transperineal Prostate Biopsy</td>
<td>Seshadripuram, Vanagaram</td>
</tr>
<tr>
<td>Robotic Angioplasty</td>
<td>Hyderabad</td>
</tr>
<tr>
<td>Smart Lipo</td>
<td>Navi Mumbai, Seshadripuram, Kolkata</td>
</tr>
<tr>
<td>Apollo Genomic Institute</td>
<td>Delhi, Navi Mumbai, Chennai, Bangalore, Hyderabad</td>
</tr>
</tbody>
</table>
Success Stories

Transperineal Prostate Biopsy

Apollo Hospitals, Seshadripuram

In this unique procedure one has to undergo multi-parametric magnetic resonance imaging (mpMRI) and contouring of the lesions which are suspected to be cancerous and prostate size is marked via a special software pack. The image is then transferred to the special ultrasound done that is done trans-rectally. The ultrasound probes assess the longitudinal and cross-sectional images of the target lesions. Keeping the target in situ, a small-bore needle is passed perineally (the area between the scrotum and the anus) via a grid (brachytherapy) for a more accurate yield of tissue for examination.

Difference between the conventional procedure of TRUS vs new technology TPUS is that, in the former the biopsy is done through the transrectal route where it is associated with high chance of infection (rectal route) and in the latter the biopsy is done through the perineum avoiding deadly infection complications.

With mp MRI -TP fusion biopsy, overall CDR (cancer detection rate) improves by 25%, and better sampling efficacy by 46% and identification of the clinically significant cancer by 8.2%.

With this innovation and availability one can diagnose 25% more patients at an early stage and also reduce the risk of infection.

RFID in Blood Banking

Indraprastha Apollo Hospitals, Delhi

Radio-Frequency Identification (RFID) is a system that allows automatic scanning of bulk quantities of blood bags and products, real time tracking of their location thus enabling strict control of inventory and advanced planning of supplies.

The Biolog-id solution installation was done at Indraprastha Apollo hospitals, Delhi. Integration with Med mantra software was also completed.

The solution enhances patient safety at bedside by ensuring transfusion of 'right blood to right patient'. It also allows identification of patient and blood component at the bedside before the start of transfusion.

RFID is now implemented at the patient bed side in various wards and ICUs.
Novel Motorized Spiral Enteroscope

**Apollo Hospitals, Kolkata**

Novel Motorized Spiral Enteroscope (NMSE) revolutionized small bowel evaluation. It is safer, faster and has higher pan-enteroscopy rates when compared to its predecessors.

Over 120 cases have been performed in a span of one year. It has been instrumental in management of small bowel diseases like inflammatory bowel disease, obscure gastrointestinal bleed, small bowel tumours. Mean time for therapeutic success is about 40–50 minutes. Pan-enteroscopy rates are 55%. No major complication has been encountered till date.

---

**Brain Suite:**

The Brain suite is equipped with the latest Zeiss Pantero microscope for a precise microsurgical work. It also has a HD recording facility to record the surgery and review for academic purpose.

The Medtronic stealth navigation system available in Brain Suite is helpful in navigating complex brain tumour and enabling a safe maximal tumour resection. It is also helpful to obtain biopsies of deep-seated brain tumors without using a cumbersome frame attachment.

The intra-operative MRI attached to the brain suite is helpful for high end neurosurgical work where the extent of tumour resection can be monitored real time. The theatres are also equipped with Intraoperative neuro monitors, CUSA system and micro instruments.

---

**Neuro Suite**

**Apollo Hospitals, Hyderabad**

Neurosurgery suite at Apollo Hospitals Jubilee Hills, Hyderabad is a state-of-the-art neurosurgical operating room facility.

It has two operating theatres, one for cranial procedure- Brain Suite and one for spinal procedures- Spine Suite. These are the latest operating room facilities with the state-of-the-art operating table and lighting system. They are ergonomically designed for prolonged brain and spine surgeries and are fully equipped with the latest equipment that can handle all brain and spinal pathologies irrespective of their complexity.
Spine Suite:

The Spine Suite is another state-of-the-art facility with an O-arm. O-arm guided navigation enables a precise placement of spinal implants even in complex spinal deformities like scoliosis and complex degenerative spinal diseases. It is also equipped with Medtronic spinal navigation system, latest C-arm, NIM neuromonitoring system and Zeiss Pantero microscope.

Apollo Clinical Excellence Success Score (ACESS)

Apollo Clinical Excellence Success Score (ACESS) Report is a monthly report/scorecard for each of the Apollo Hospitals. It includes a quarterly scoring system as well. For monthly scoring, 12 initiatives are considered for scoring, whereas for the quarterly scoring, 15 initiatives are assessed.

Apollo Innovation and Quality Awards 2022

Apollo Innovation and Quality Awards is a platform that felicitates and rewards hospitals within the Apollo Group for their diligent efforts and innovations to persistently improve patients care, quality and safety.

Nominations for Apollo Innovations and Quality Awards 2022 were invited from all locations in seven categories:

- Excellence in Clinical Services
- Excellence in Community Services
- Excellence in Environmental Conservation
- Excellence in Finance
- Excellence in HR Practices
- Excellence in Operations
- Excellence in Quality Management and Patient Safety

Two hundred eight nominations were received from 29 units.
The nominations were judged by an esteemed panel of the jury:

**Excellence in HR practices**
- Dr Yash Pal Bhatia
- Dr Rohini Sridhar

**Excellence in Finance**
- Mr Krishna Kumar
- Mr Manian KBS

**Excellence in Clinical Service**
- Dr Arun Kumar Agrawal
- Dr Rana Mehta

**Excellence in Environmental conservation**
- Mr Nanda Kumar
- Mr Ravichandran

**Excellence in Community Services**
- Mr Sivaramakrishnan
- Mr Gerald Jaideep

**Excellence in Operations**
- Dr Bhama
- Dr Srinidhi

**Excellence in Quality Management and Patient Safety**
- Dr Ravi Mahajan
- Dr JK Das

The winners in each category were:

<table>
<thead>
<tr>
<th>Clinical Services</th>
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<tbody>
<tr>
<td><strong>Winner</strong></td>
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<tr>
<td>Apollo Specialty Hospitals, OMR</td>
</tr>
</tbody>
</table>

**Special Recognitions**

- **Apollo Cancer Institute, Teynampet**: Comfy SITZS bath
- **Apollo Proton Cancer Center**: End of life comfort care consent - Empowering family and ensuring dignity in terminally ill patients of advanced cancers. (EOL3C project)
- **Apollo Dialysis Clinics**: Project - Renal Care
- **Apollo Gleneagles Hospital, Kolkata**: Regenerative surgery for minimally invasive successful reconstruction of trauma, wounds, and burns.
- **Apollo Proton Cancer Center**: Overcoming the challenge of metal implants for successful implementation of image guided pencil beam scanning proton beam therapy
- **Apollo Cancer Institute, Teynampet**: Radiosurgery for functional diseases of brain
- **Apollo Hospitals, Jubilee Hills, Hyderabad**: Multidisciplinary endometrioses surgeries for improved quality of life and reduced recurrence rates
<table>
<thead>
<tr>
<th>Apollo Hospital, Indore</th>
<th>3D printing technology- A gamechanger innovation for revision joint replacement surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apollo Speciality Hospitals, Madurai</td>
<td>Prostatic artery embolization</td>
</tr>
<tr>
<td>Indraprastha Apollo Hospitals, Delhi</td>
<td>Lessons learnt from five year audit for post-operative analgesia in patients undergoing knee arthroplasty: An attempt to improve patient outcome and satisfaction.</td>
</tr>
<tr>
<td>Apollo Hospitals, Navi Mumbai</td>
<td>All-endoscopic distal biceps repair and reconstruction technique</td>
</tr>
<tr>
<td><strong>Quality Management and Patient Safety</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Winner</strong></td>
<td><strong>Projects</strong></td>
</tr>
<tr>
<td>Apollo Hospitals, Bhubaneshwar</td>
<td>Detection and reduction of repeat medication error</td>
</tr>
<tr>
<td><strong>Special Recognitions</strong></td>
<td></td>
</tr>
<tr>
<td>Apollo Gleneagles Hospital, Kolkata</td>
<td>Reduction of repeated medication errors (REREME)</td>
</tr>
<tr>
<td>Apollo Specialty Hospitals, OMR</td>
<td>Tool Phoenix- What gets measured gets improved ...! - Modified maternity patient related outcome measure for use in childbirth</td>
</tr>
<tr>
<td>Apollo Hospitals, Tondiarpet</td>
<td>Streamlining medical records compliance</td>
</tr>
<tr>
<td>Apollo Hospitals, Guwahati</td>
<td>Reduction of patient fall</td>
</tr>
<tr>
<td>Apollo Hospitals, Bilaspur</td>
<td>To monitor all outside Adverse Drug Reactions (ADR’s) with root cause analysis and its reporting to ensure patient safety while treatment in Apollo Hospitals Bilaspur.</td>
</tr>
<tr>
<td>Apollo Specialty Hospitals, Vanagaram</td>
<td>Enhancement of nurse patient ratios basis acuity based staffing</td>
</tr>
<tr>
<td><strong>Operations</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Winner</strong></td>
<td><strong>Projects</strong></td>
</tr>
<tr>
<td>Apollo BGS Hospitals, Mysore</td>
<td>Making the billing path easier</td>
</tr>
<tr>
<td>Apollo Corporate</td>
<td>Plugging gaps by reaching out – The advent of CPOE</td>
</tr>
<tr>
<td><strong>Special Recognitions</strong></td>
<td></td>
</tr>
<tr>
<td>Apollo Corporate</td>
<td>Getting ready for the future- Project Lakshya</td>
</tr>
<tr>
<td>Apollo BGS Hospitals, Mysore</td>
<td>Breaking the barriers in reaching the golden hour</td>
</tr>
<tr>
<td>Apollo Main Hospitals, Bangalore</td>
<td>Restructuring discharge process</td>
</tr>
<tr>
<td>Apollo Corporate</td>
<td>Project HOPE</td>
</tr>
<tr>
<td>Apollo Main Hospitals, Chennai</td>
<td>Redesigning workflows for enhanced conversions through CPOE</td>
</tr>
</tbody>
</table>
## Financial Management

### Winner
Apollo Main Hospitals, Chennai

### Projects
Claim Book - Success story in recycle management

### Special Recognitions
Apollo Main Hospitals, Bangalore
Automation of sending statement to consultants
Apollo Main Hospitals, Chennai
Dynamic reports for reducing material cost

## Environmental Conservation

### Winner
Apollo Gleneagles Hospital, Kolkata

### Projects
“Green hug – A sustainable approach towards Excellence in environmental conservation”

### Special Recognitions
Apollo Main Hospitals, Chennai
Energy Conservation through technically re-engineering chiller pipeline between main and sindoori block
Apollo Specialty Hospitals, Vanagaram
Optimal utilization of natural resources (Power & water) to reduce operational expenditures
Apollo BGS Hospitals, Mysore
Novel approach to laundry process
Apollo Main Hospitals, Chennai
Sustainable water management

## HR Practices

### Winner
Apollo Cancer Institute, Teynampet

### Projects
“The smart onco nurse program” – A talent development programme for nurses handling chemotherapy

### Special Recognitions
Apollo Main Hospitals, Chennai
Infection control nurse pioneer in PICC care
Apollo Proton Cancer Center
Project REAR - Respect – Encourage - Appreciate - Recognize to enhance employee’s well-being at workplace by wellness team

## Community Service

### Winner
Apollo Proton Cancer Center

### Projects
ABCD – APCC breast cancer diaries – year of hope for early cancer detection to improve the quality of Life

### Special Recognitions
Apollo Tele Health Services
Tripura Mobile Medical Unit
Presentation of Apollo Innovation and Quality Awards 2022 to the winning centres during Founder’s Day Celebrations on 5th February 2023
Apollo Clinical Awards 2022

Apollo Clinical Awards is a platform that honours and recognizes Consultants who have achieved path-breaking clinical, academic, and research related success.

Nominations for Apollo Clinical Awards 2022 were invited from consultants of all locations in eleven categories:

- Distinguished Clinician
- Distinguished Academician
- Distinguished Researcher
- Lifetime Achievement Award
- Clinical Pioneer Award
- Apollo Clinical Trailblazer Award
- Clinical Innovator Award
- Young Clinician Achiever
- Young Academic Achiever
- Young Researcher
- Promising Young Clinician

The nominations were judged by an esteemed panel of jury.

The winners in each category were:

**Distinguished Clinician**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jairam Chandra Pingle</td>
<td>Senior Consultant, Orthopedics</td>
<td>Hyderabad</td>
</tr>
<tr>
<td>Dr KC Mehta</td>
<td>Senior Consultant, Orthopedics</td>
<td>Ahmedabad</td>
</tr>
<tr>
<td>Dr Sanjay Pai</td>
<td>Senior Consultant, Orthopedics</td>
<td>Jayanagar</td>
</tr>
<tr>
<td>Dr Sudheer Kumar Tyagi</td>
<td>Senior Consultant, Neurosurgery</td>
<td>Delhi</td>
</tr>
<tr>
<td>Dr Prasanth Kumar Sahoo</td>
<td>Senior Consultant, Cardiology</td>
<td>Bhubaneshwar</td>
</tr>
</tbody>
</table>

**Distinguished Academician**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jay Kothari</td>
<td>Critical Care, Senior Consultant</td>
<td>Ahmedabad</td>
</tr>
<tr>
<td>Dr Sanjiv Jasuja</td>
<td>Senior Consultant, Nephrology</td>
<td>Delhi</td>
</tr>
<tr>
<td>Dr Rajesh Chawla</td>
<td>Senior Consultant, Respiratory, Critical Care and Sleep medicines</td>
<td>Delhi</td>
</tr>
<tr>
<td>Dr Roopesh Kumar V R</td>
<td>Senior Consultant, Neurology and Neurosurgery</td>
<td>Proton Cancer Centre</td>
</tr>
</tbody>
</table>

**Distinguished Researcher**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Bikash Kumar Mishra</td>
<td>Senior Consultant, Neurology</td>
<td>Bhubaneshwar</td>
</tr>
<tr>
<td>Dr Rakesh Jalali</td>
<td>Senior Consultant, Radiation Oncology</td>
<td>Proton Cancer Centre</td>
</tr>
<tr>
<td>Dr Sanjay Sinha</td>
<td>Consultant, Urology</td>
<td>Hyderabad</td>
</tr>
</tbody>
</table>

**Lifetime Achievement Award**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr T V Devarajan</td>
<td>Senior Consultant, Internal Medicine</td>
<td>AFMH, Chennai</td>
</tr>
</tbody>
</table>

**Clinical Pioneer Award**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Shashi Kiran Pal</td>
<td>Senior Consultant, Urology</td>
<td>Delhi</td>
</tr>
</tbody>
</table>

**Clinical Trailblazer Award**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Sarita Yadav Rao</td>
<td>Senior Consultant, Cardiology</td>
<td>Indore</td>
</tr>
<tr>
<td>Dr K Roshan Rao</td>
<td>Senior Consultant, Cardiology</td>
<td>Indore</td>
</tr>
</tbody>
</table>

**Clinical Innovator Award**

<table>
<thead>
<tr>
<th>Consultant Name</th>
<th>Specialty</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Neerav Goyal</td>
<td>Senior Consultant, Transplant Surgery</td>
<td>Delhi</td>
</tr>
<tr>
<td>Dr M M Yusuf</td>
<td>Consultant, Cardiothoracic Surgery</td>
<td>Chennai</td>
</tr>
</tbody>
</table>
Dr Nidhi Goyal, Senior Consultant, Radiology, Delhi
Dr Dhanasekhar Kesavelu, Senior Consultant, Paediatric Gastroenterology, Chennai
Dr Vishwanath Sathyanarayanan, Consultant, Medical Oncology, Bangalore
Dr Chandrakant Tarke, Senior Consultant, Pulmonology, Hyderabad
Dr Dhananjayan Rangan, Consultant, Biochemistry, Vanagaram
Dr Mohit Chowdhry, Senior Consultant, Transfusion Medicine, Delhi
Dr Vijayashankar Paramanandam, Senior Consultant, Neurology, Movement disorder and Deep brain stimulation, Chennai
Dr Sharmili Sinha, Senior Consultant, Critical Care Medicine, Bhubaneswar
Dr Sharath Kumar G G, Senior Consultant, Diagnostic and Interventional Neuroradiology, Seshadripuram
Dr Swetha Lakshmi Narla, Senior Consultant, Histopathology, Cytology and Immunohistochemistry
Dr Charan Reddy K V, Consultant, Structural and Interventional Cardiology, Navi Mumbai

Young Clinician

Dr Debraj Jash, Consultant, Pulmonology, Kolkata
Dr Chandrakant Tarke, Senior Consultant, Pulmonology, Hyderabad
Dr Sharath Kumar G G, Senior Consultant, Diagnostic and Interventional Neuroradiology, Seshadripuram

Young Academician

Dr Nidhi Goyal, Senior Consultant, Radiology, Delhi
Dr Dhananjayan Rangan, Consultant, Biochemistry, Vanagaram

Young Researcher

Dr Dhanasekhar Kesavelu, Senior Consultant, Paediatric Gastroenterology, Chennai
Dr Mohit Chowdhry, Senior Consultant, Transfusion Medicine, Delhi
Dr Swetha Lakshmi Narla, Senior Consultant, Histopathology, Cytology and Immunohistochemistry
Dr Sharmili Sinha, Senior Consultant, Critical Care Medicine, Bhubaneswar

Promising Young Clinician

Dr Vishwanath Sathyanarayanan, Consultant, Medical Oncology, Bangalore
Dr Vijayashankar Paramanandam, Senior Consultant, Neurology, Movement disorder and Deep brain stimulation, Chennai
Dr Charan Reddy K V, Consultant, Structural and Interventional Cardiology, Navi Mumbai
Apollo Antimicrobial Stewardship (AAMSP) Awards 2022

Apollo Antimicrobial Stewardship was officially launched by Chairman Dr Prathap C Reddy in 2022. It is India’s largest stewardship programme covering over 75 Apollo Hospitals across the country.

A National Coordinating Team and a National Advisory Committee was formed to steer the program. The National Advisory Committee included representatives from all stake holders like Medical Heads, Nursing Heads, Quality Heads, Clinical Microbiologists, Infectious Disease Specialists and Intensivists.

The ASP Committee and ASP team members were identified in all hospitals. The ASP team members essentially comprised of Clinical Pharmacist and Infection Control Nurses. A document on the programme detailing aims, gaps, roles, responsibilities, action plans and monitoring was drafted and designed for this purpose.

The ASP programme aims to reduce the consumption of restricted antibiotics, increase compliance to surgical prophylaxis and standard recommendations for common infections. It also aims to spread awareness about antimicrobial resistance and rational antimicrobial practices. Clinical pharmacists and infection control nurses received training in Antimicrobial Stewardship through dedicated modules. The programme is supported strongly by the IT Team. Online electronic forms, automated SMS alerts of culture growth and electronic retrieval of data relevant for ASP metrics.

Share Your Story

It is important to share the best practices and innovations amongst the hospitals within the Group for continuous improvement and further enrichment. The “Share Your Story” initiative was conceptualized with a view to sharing best practices amongst all the Apollo Hospitals on one chosen topic, every quarter. The topics for the quarters in 2022 and respective winners were:

Topic: Strategies implemented to prevent major discrepancies between pre-operative and post-operative diagnoses

Winner: Apollo Hospitals, Greams Road, Chennai

Topic: How to improve compliance of notation of action taken for critical test result values in the medical records by the physicians

Winner: Apollo Hospitals, OMR

Topic: How to improve compliance of complete and proper consents in Medical Records

Winner: Apollo Hospitals, Tondiarpet

Winner of the Share your Story Awards 2022
**9th International Patient Safety Conference**

The 9th edition of the International Patient Safety Conference (IPSC) and the 10th International Conference on Transforming Healthcare with Information Technology (THIT) was held on the 13th and 14th February 2023 at Taj Palace, New Delhi. The conference was a powerful platform where best practices and innovations in patient safety were shared. A well-knit program with key note presentations, panel discussions, debates, paper and poster presentations, made this a vibrant forum for exchanging ideas, knowledge and an opportunity to think, reflect and learn the best from the best. The conference was attended by about 1330 delegates from 30 countries and 162 national and international speakers. With sessions around this year’s theme of ‘Dream, Design, Dare’, the IPSC conference featured various prestigious national and international organizations as knowledge partners. Some of these organizations were NITI Aayog, NABH, WHO Patient Safety Flagship Initiative, JCI, Ramsey Sime Darby Healthcare, Malaysia and many more.

**Joint Commission International (JCI) Accredited Apollo Hospitals**

The following Eight Apollo Hospitals are JCI Accredited:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Hospital</th>
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<tbody>
<tr>
<td>1.</td>
<td>Indraprastha Apollo Hospitals, New Delhi</td>
</tr>
<tr>
<td>2.</td>
<td>Apollo Hospitals, Hyderabad</td>
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<tr>
<td>3.</td>
<td>Apollo Hospitals, Chennai</td>
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<td>4.</td>
<td>Apollo Hospitals, Bangalore</td>
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<td>5.</td>
<td>Apollo Hospitals, Kolkata</td>
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<tr>
<td>6.</td>
<td>Apollo Hospitals, Ahmedabad</td>
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<tr>
<td>7.</td>
<td>Apollo Hospitals, Navi Mumbai</td>
</tr>
<tr>
<td>8.</td>
<td>Apollo Proton Cancer Centre</td>
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</tbody>
</table>

**National Accreditation Board for Hospitals and Healthcare Providers (NABH) Accredited Apollo Hospitals**

The following 32 Apollo Hospitals are NABH Accredited:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Hospital</th>
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<tbody>
<tr>
<td>1.</td>
<td>Apollo Hospitals, Bilaspur</td>
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<tr>
<td>2.</td>
<td>Apollo Speciality Hospitals, Madurai</td>
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<tr>
<td>3.</td>
<td>Apollo BGS Hospitals, Mysore</td>
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<tr>
<td>4.</td>
<td>Apollo Hospitals, Bhubaneswar</td>
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<tr>
<td>5.</td>
<td>Apollo Hospitals, Secunderabad</td>
</tr>
<tr>
<td>6.</td>
<td>Apollo Hospital, Hyderguda</td>
</tr>
<tr>
<td>7.</td>
<td>Apollo Speciality Hospitals, Vanagaram</td>
</tr>
<tr>
<td>8.</td>
<td>Apollo Hospitals, Kakinada</td>
</tr>
<tr>
<td>9.</td>
<td>Apollo Hospitals, Noida</td>
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<tr>
<td>10.</td>
<td>Apollo Speciality Cancer Hospital, Teynampet</td>
</tr>
<tr>
<td>11.</td>
<td>Apollo Hospitals, Trichy</td>
</tr>
<tr>
<td>12.</td>
<td>Apollo Hospitals, Indore</td>
</tr>
<tr>
<td>13.</td>
<td>Apollo Hospitals, Nashik</td>
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</tbody>
</table>
Apollo ProHealth

ProHealth program is a unique end-to-end personalized proactive health program that brings together predictive risk analysis, doctor-curated health packages, cutting-edge diagnostics with expert evaluation and a personalized path to wellness. It is designed to make positive shifts towards good health.

Care Beyond Hospital walls - On-Site Health Checks for Corporates

In the year 2022, the ProHealth team delivered several onsite health check camps. A significant initiative was undertaken in the southern region wherein over 12,000 employees across 4 locations underwent health checks within 13 days through multiple shifts- from 9am to 5pm and 9pm to 2am. This was the first time a health check camp that included labs, ECG, PFT, audiometry, physical examination and clinical reviews was undertaken at this scale. The operational processes, clinical excellence and technology for automation were critical enablers. The results of these health checks helped identify the health concerns for the respective organisations and advised the corrective measures to be taken.

Apollo ProHealth DeepX

Apollo ProHealth DeepX, is an immersive mixed reality experience to help individuals visualise what could be happening inside their body and motivate individuals to make positive lifestyle shifts for improving their health. Based on the individual's profile, Apollo AI Cardiac Risk Score, built with Indian population data, is generated. Microsoft’s HoloLens enables a 3D visual of the heart with the risk factors generated for the individual. This allows the individual to better understand the current state of their heart, impact of risk factors like obesity, smoking and diabetes. It then provides personalised advice to the individual to improve their cardiac health. This innovative tool has the potential to revolutionize patient awareness and education in a way to enhance understanding of one's health condition and manage health.
Apollo Digital Pathology

Digital Pathology is rapidly gaining momentum as a proven and essential technology by helping in real-time collaborations of pathologists and providing opportunities for discussing complex and rare cases.

The Apollo Digital Pathology (ADP) uses Philips Digital Pathology Ultrafast Scanner- UFS 300 installed at 4 digital pathology centres- Delhi, Hyderabad, Chennai and Bangalore.

The slides are reported by Apollo's highly experienced and skilled histopathologists in 13 sub-specialities.

- Renal Pathology
- GI Pathology
- Head and Neck Pathology
- Lymph Reticular Pathology
- Soft Tissue Pathology
- Neuro-Onco Pathology
- Endocrine Pathology
- Muscle Pathology
- Liver Pathology
- Breast and Gyn Pathology
- Genitourinary Pathology
- Lung Pathology
- Non-neoplastic Pathology

Achievements

- ADP has reported 96,494 cases till date
- It has created HUB and SPOKE models to transfer slides to HUB
- A series of eight webinars were conducted that was attended by over 728 doctors

New Launches

Apollo Hospitals Group partnered with Eclipse Group, Africa to set up a state-of-the-art diagnostic and cancer centre in Tanzania

Apollo Hospitals Group and Eclipse Group, Africa, to establish a cancer treatment center in the Msasani area, Dar es Salaam, Tanzania. The 60-bedded state-of-the-art cancer center will offer comprehensive cancer care right from diagnosis to treatment. It will offer medical, surgical, and radiation treatment to cancer patients across age groups, from pediatric to adults. The center will offer best-in-class treatment and care with a team of experienced oncologists, cancer care management and the world's finest technology, to make quality cancer care accessible to over 55 million people in Tanzania.

Apollo Hospitals partners with Balmer Healthcare to set up a Tertiary Care Hospital in Kenya

Apollo Hospitals Group is to set-up a state-of-the-art tertiary care hospital in partnership with Balmer Healthcare, the leading caregiver in Kenya. This partnership will provide quality healthcare for over 47 million people in Kenya and neighboring regions. The state-of-the-art tertiary care hospital will offer comprehensive care in over 20 specialties to Kenyan patients across all age groups, from pediatric to adult.
Apollo Hospitals integrated Cardiovascular Risk Tool with ConnectedLife digital wellness solutions

Apollo Hospitals collaborated with ConnectedLife, leaders in the application of motor state diagnostics, to integrate Apollo’s AICVD tool with ConnectedLife’s digital solutions for wellness, condition management and other health-focused applications. The AICVD tool can predict the risk of cardiovascular disease. This will empower healthcare providers with the tools to predict the risk of cardiac disease in their patients and initiate intervention early enough to make a real difference.

Apollo Cancer Centre in collaboration with Datar Cancer Genetics launched a revolutionary blood test for early detection of Breast Cancer

Apollo Cancer Centres in association with Datar Cancer Genetics brought a revolutionary blood test that can detect breast cancers at early stages in asymptomatic individuals with high accuracy, thus enabling timely diagnosis and treatment to save lives.

Apollo Cancer Centres, via this launch appeals to women to get screened in the easiest way, via a blood. With an easy draw of a small quantity of blood, EasyCheck – Breast can help in the detection of breast cancer even before the first stage.

Apollo Hospitals entered into a partnership with Imperial Hospital, Bangladesh for the Operations and Management of a multispecialty tertiary care hospital

Apollo Hospitals manage IHL, a 375-bedded multispecialty tertiary care hospital based out of Chittagong, Bangladesh. The state-of-the-art facility in Chittagong has experienced medical staff, clinicians, and administrative staff with the aim to providing outstanding services to patients. Apollo Hospitals manage the day-to-day operations and clinical service delivery, utilizing their clinical and managerial capabilities, perfected over decades.

Apollo Multispeciality Hospitals, Kolkata introduced Bronchial Thermoplasty to treat severe asthma. For the first time in Eastern India

Apollo Multispecialty Hospitals, Kolkata launched Bronchial Thermoplasty, a painless procedure for effective treatment of severe asthma. The treatment uses a catheter, which is inserted through the windpipe to deliver heat. This heat is targeted to the smooth muscles of the lungs so that they shrink and can’t get tightened to cause asthma symptoms anymore. The procedure typically needs three sittings with a gap of three weeks between each sitting.

Apollo Cancer Centre, Bhubaneswar launched Odisha’s first and only TrueBeam STx technology

The Hon’ble Chief Minister of Odisha, Shri Naveen Patnaik inaugurated the Apollo Cancer Centre (ACC) in the State capital—Bhubaneswar. It is the first and only cancer center in Odisha to be equipped with True Beam STx technology.

The Centre is equipped with Odisha’s first and only cutting-edge Linear Accelerator (HD-True Beam STx) technology and internationally acclaimed oncologists in all specialities. The True Beam STx, which is the most advanced Linear Accelerator radiation machine offers the most precise radiation therapy treatment for a
better outcome. The center has a sophisticated Positron Emission Tomography-Computed Tomography (PET CT) facility. The 64 slice PET CT machine is equipped with all modern facilities to do every type of PET CT including PET guided biopsies.

The newly built center has 17 dedicated beds for chemotherapy. It is also a major referral center for the people of Odisha and the neighbouring states of Bihar, Jharkhand, Chhattisgarh, and parts of West Bengal. Apollo Cancer Centre has organ-specific cancer management teams delivering exceptional outcomes.

Apollo Hospitals signed an MoU with the Marafon Group for setting up a tertiary care hospital in Uzbekistan

Apollo Hospitals and the Marafon Group signed an MoU setting up for first-of-its-kind tertiary care hospital. With this partnership for the tertiary care hospital, it will provide quality healthcare to over 60 million people of Uzbekistan and bordering regions of Kyrgyzstan, Kazakhstan and Tajikistan.

Apollo Hospitals will offer technical consulting, clinical excellence, commissioning and BOMA (Branding, Operations and Management Agreement) of the tertiary care hospital in Uzbekistan. The tertiary care hospital will be built in the Fergana region and will primarily focus on Oncology, Organ transplants, Urology, Neurosurgery, Cardiology and high end diagnostics. The Central Government of Uzbekistan and the Government of Fergana have come together to facilitate the tie-up between Apollo Hospitals and the Marafon Group.

J&K Government has signed an MoU with Apollo Hospitals to establish a multi-speciality hospital at Jammu

Apollo Hospitals for the establishment of a multi-speciality hospital in Jammu. Apollo Hospitals will set up a 250-bed hospital in the region.

Apollo Simulation Centre signed an MoU with The Tamil Nadu Nurse and Midwives Council to implement competency based training for student nurses

Apollo Simulation Centre at Apollo Specialty Hospitals, Vanagaram signed a MoU with Tamil Nadu Nurse and Midwives Council to implement competency based training through simulation technique for student nurses. Apollo Simulation Centre will become the State Simulation Referral Centre for Training of Trainers for Nursing Leaders in Simulation in preservice education. This training will be first of its kind in the country to be implemented throughout the state across all colleges as simulation-based training has been made mandatory, based on the new curriculum implemented by the Indian Nursing Council.

Apollo Genomics Institutes launched at Apollo Hospitals, Navi Mumbai

Apollo Hospitals, Navi Mumbai launched the Apollo Genomics Institutes to provide comprehensive care to patients and families with genetic disorders. Genomic medicine is a medical discipline that deals with genetic disorders and helps in the diagnosis and treatment of rare and inherited diseases. It also provides information on the risk of an individual developing a disease and their response to a particular treatment and enables precision and personalised medicine.
Apollo Children's Hospitals launched India's first Paediatric Liaison Psychiatry Department

Apollo Children’s Hospital, Chennai launched the Apollo Paediatric Psychiatry Liaison and Education department (APPLE). This is India’s first such center.

The unique aspect of the department of ‘APPLE’ – Apollo Paediatric Psychiatry Liaison & Education is the presence of a Liaison Psychiatrist in the entire treatment process of paediatric patients, who would focus on the various mind-related issues while the body of a child heals.

Apollo Hospitals, Jubilee Hills, Hyderabad launched a Vertigo and Balance Disorder Clinic in Hyderabad

Apollo Hospitals has launched a Vertigo and Balance Disorder Clinic in Hyderabad, pioneering the growth of vertigo treatment in India. Being one of the most underdiagnosed problems worldwide, this clinic is meant to bring a revolutionary change in the way vertigo is perceived and treated in the country.

Apollo Cancer Centers launched ArtCan, an initiative to raise awareness about Breast Cancer.

The Apollo Cancer Centres (ACC) launched ArtCan, a unique initiative which uses art as a medium to spread awareness on Breast Cancer. Apollo Cancer Centres joined hands with mural artists and survivors to curate art that educates and empowers every woman about the importance of regular breast self-examination.

Through ancient Kerala Mural Art, the eight steps of self-breast examination brought attention to the issue of breast cancer. Each frame reflected the story of a woman who discovered this condition while performing a self-breast examination, acted on time and defeated cancer. These eight steps have also been depicted in a book format called ‘Chitra Sutra’.

Apollo Proton Cancer Centre launched a Drive Away Breast Cancer initiative to raise breast cancer awareness.

Apollo Proton Cancer Centre launched a Pan-India initiative ‘Drive Away Breast Cancer’. The initiative was focused on ensuring that every woman has knowledge and understanding about breast cancer, is self-examining for early diagnosis and living a healthy life.
AirPhysio partnered with Apollo Hospitals Group and Medsmart to launch its respiratory devices in India

AirPhysio partnered with Apollo Hospitals to bring the Australian multi-award-winning respiratory devices to India to help change people’s lives. After expanding from five countries to over 100 in the past 2 years and helping over half million people to improve their quality of life, AirPhysio is now available in India.

Apollo Proton Cancer Centre has become Asia’s first and exclusive Proton Beam Training Institute in association with IBA, Belgium

Apollo Proton Cancer Centre (APCC) and Ion Beam Applications (IBA), Belgium have signed an agreement to offer proton therapy training and education for clinicians in Asia and across the globe. Apollo Hospitals has acquired IBA’s Proteus®PLUS proton therapy system and has been successfully treating cancer patients for over three years. Now, with this association, APCC will impart knowledge through its advanced training and education program on proton therapy to clinicians.

Apollo Education UK launched the Apollo International Clinical Fellowship Programme (ICFP), as a part of its Global Workforce Development (GWD) initiative. Over the course of this three-year ICFP programme, doctors (MS/MD/DnB) can ‘earn as they learn’, receiving mentorship from senior doctors at Apollo Hospitals, India, in a preparatory year to aid transition into NHS clinical practice before being placed in a UK hospital for the next two or more years, where they can complete their clinical learning. At the same time as gaining this international work experience in an area of specialty, Doctors will study for a Master of Surgery or Master of Medicine degree at Edge Hill University.

Apollo Proton Cancer Centre launched a comprehensive Mobile Health Program in Thoothukudi District, Tamil Nadu

Apollo Proton Cancer Centre, Chennai and the Thoothukudi District administration joined hands to launch ‘Screen to Win’, a comprehensive Mobile Health Program. This initiative focuses on the need for regular screening and examination to keep a check on cancers. In line with its aim to treat cancer patients with best-in-class treatments and technology, Apollo Proton Cancer Centre continues to make a difference with its Mobile Health Program.

New in Medicine

‘New in Medicine’ is compiled under the following five heads after studying leading medical journals, major medical news sites and numerous websites:

- Drugs
- Clinical Research
- Devices
New and Rare Treatment/ Complex Care Services

The following are the complex cases treated at Apollo Hospitals:

Apollo Children’s Hospital, Chennai
1. Tetratolgy of Fallot with left innominate artery was successfully treated through surgery in a two year old, male baby. The artery was re-implanted into ascending aorta and intra-cardiac repair of TOF was performed.
2. A neonate, shifted from Mauritius, diagnosed with a symptomatic right atrial appendage aneurysm was successfully managed through surgery and post-operative care. Only four such cases have been reported for the first few months of life.

Apollo First Med Hospitals, Chennai
1. A complex surgery to treat implant infection was successfully performed for a 62-year-old male patient. After extensive pre-operative planning, the old implant along with the infected bone graft was removed from one angle of the mandible to the other and the reconstruction was done using vascularized free fibula osteo-myo-cutaneous flap in which the fibula was fashioned like the mandible and fixed with native bone using recon plate. The muscle (FHL) was wrapped around the implant and the skin paddle was used as a cover. All these were connected to the neck vessels through microvascular anastomosis.

Apollo Proton Cancer Center, Chennai
1. Asia’s first brain bypass surgery was successfully performed for eight-year-old twins, from Netherlands, diagnosed with Moyamoya disease.

Brain bypass surgery was successfully performed

2. Asia’s first radical pleurectomy with Hyperthermic Intrathoracic Chemotherapy (HITHOC) was successfully performed for a 16-year-old adolescent diagnosed with Ewing’s Sarcoma of the left intrathoracic cavity.

Radical pleurectomy with Hyperthermic Intrathoracic Chemotherapy was successfully performed

Apollo Hospitals, Ahmedabad
1. Video-assisted thoracoscopic surgery was successfully performed to manage a patient who presented with hypoxic respiratory failure, massive effusion and lung collapse.
2. A 47-kg tumor was successfully removed from the abdomen of a 56-year-old female patient. The tumor was first diagnosed 18 years ago. This was the first such case of this kind case in the country.
3. A challenging procedure, laparoscopic donor nephrectomy was successfully performed in a 38-year-old kyphoscoliotic patient.

4. Congenital Superficial Angiomyxoma, a rare tumour, was successfully managed in a 15-year-old boy. The patient had presented with an erythematous nodule on cheek since birth was gradually increasing in size.

5. Intrapulmonary teratoma masquerading as congenital anomaly was successfully managed in a 16-month-old female baby. The baby had presented with fever and pneumonia and was found to have a huge fluid-filled lung cyst in right hemithorax. She underwent a right posterolateral thoracotomy to surgically excise the tumour along with involved part of the lung.

6. A double organ transplant surgery was successfully performed in a 48-year-old male patient from Myanmar. The marathon surgery for combined kidney and liver transplant went on for 17 hours. The patient was suffering from diabetes, hypertension and hepatitis C and was dependent on dialysis for the past three years. On evaluation, it was found that apart from a damaged kidney, the patient was also suffering from liver cirrhosis and needed a liver transplant as well. This was first such case in the state of Gujarat.

7. Double disc prolapse with radiculopathy were successfully managed through surgery for a 35-year-old male patient.

8. Successful treatment of a huge leiomyoma uterus in a patient.

9. Intensive care treatment was successfully performed to manage a 58-year-old female patient with polytrauma. The patient was in cardiac arrest on arrival in emergency department. She was a known case of diabetes, hypertension. She presented with a history of RTA and subsequent loss of consciousness, ENT bleed, seizure, vomiting. The patient had GCS of E2 M1 V2, poor cough reflex, tachycardia, hypotension with cold peripheries and hypoxia. She had multiple abrasion over face, abdomen and arms. On Discharge, she was fully conscious and oriented, without any neurological deficit, tolerating full diet and no infection in or at surgical site.

10. A 68-year-old man climbed to the base camp of Mount Everest after getting a successful knee replacement surgery at Apollo Hospitals, Ahmedabad, breaking several myths attached to the surgery.

11. High grade B-cell non-Hodgkin’s lymphoma involving marrow, was successfully diagnosed and managed in a 33-year-old female patient. The patient had presented with bilateral lower limb pain and numbness, history of lower limb weakness, urinary incontinence, recurrent pleural effusion. Evaluation for repetitive pleural effusion also showed lesions involving bilateral breast lymph nodes. The patient was previously seen by about 10 different specialists in outside hospitals, and had undergone multiple biopsies, including review of biopsies without diagnosis.
12. Thoracic fracture with conus injury was successfully managed in a patient.

13. Coccygectomy was successfully performed for a 39-year-old female patient, with history of Coccydynia, since last 15 years and various failed treatments. The patient healed without any consequences although the risk of wound complications in coccygectomy is 13%. She started sitting on hard surfaces and was pain-free after 15 years.

**Apollo Hospitals, Bangalore**

1. A challenging case of a 26-year-old female patient diagnosed with Ewing’s Sarcoma of Distal femur (post chemotherapy) along with a clot in the right atrium, was successfully managed. The clot was discovered during pre-surgery planning. Limb salvage with Tumor prosthesis reconstruction was performed in less than 2.25 hours.

2. Total scapulectomy and clavicle-humerus suspension was successfully performed for a young male diagnosed with chondrosarcoma. The patient had presented with a history of swelling in the left shoulder blade with restricted movements for one year. The patient retained elbow and wrist–hand function, 3-months post-surgery and was able to ride a bike.

3. Limb salvage surgery - bipolar megaprosthesi right hip was successfully performed for a 76-year-old female patient diagnosed with chondrosarcoma. The patient had presented with right thigh pain and restricted movement for 4 days. Post-surgery the patient was mobilized and was able to walk comfortably.

4. Limb salvage surgery, with extended curettage and cement osteosynthesis was successfully performed for a 30-year-old postpartum female patient. She had presented with pain and swelling in the right knee for four-months and was diagnosed to have grade-3 giant cell tumor. She was discharged in stable condition with good knee movements.

5. A 95-year-old female patient with 99% blockage successfully underwent angioplasty surgery.

6. Mini-incision total conservative parotidectomy were successfully performed for a 33 year old female patient. The surgery was performed via an unique surgical incision, a 2.5-3cm incision in the post aural groove which renders a hidden scar. The patient was discharged on the first post-operative day.

7. A 45-year-old male patient successfully underwent robotic mitral valve repair The patient was discharged within 24 hours without any post-complications of surgery marking it as a benchmark.

8. A robotic pediatric cardiac surgery was successfully performed on a nine-year-old boy diagnosed with Atrial Septal Defect (ASD). The surgery was completed in 60 minutes. *This robot assisted cardiac surgery was a first of its kind in the country, in the given pediatric age group.*

9. Awake carotid endarterectomy with re-canualization was successfully performed for a 57-year-old patient diagnosed with symptomatic left internal carotid artery stenosis. The patient did not have any neurological deficit post surgery.

10. A rare awake craniotomy surgery, was successfully performed in a 27-year old female patient to remove a brain tumor measuring 4cm from her eloquent cortex (speech area) at the left posterior temporal lobe of the brain.
11. Limb salvage surgery was successfully performed to treat osteosarcoma in a 7-year-old patient with growing prosthesis.

12. Idiopathic intracranial hypertension with papilledema was successfully diagnosed and managed in a 22-year-old female patient. The patient was a known case of IGA Nephropathy and had presented with blurring of vision and severe headache. The patient was not a candidate for medical management due to her renal disease. Stenting of the transverse sinus stenosis was performed resulting in complete reversal of papilledema and resolution of symptoms.

13. A complex procedure, endoscopic trans-canal excision of facial nerve schwannoma, was successfully performed on a 35-year-old male patient who was suffering from right-sided facial weakness for the last two years. This is for the first time in the world that the principles of head and neck, lateral skull-base approach, and endoscopic techniques, were used together to retain the entire functionality of the ear. The patient was discharged on the second postoperative day without any complications.

14. Moses 2.0, an advanced laser technology to treat large kidney stones and prostate enlargement on high-risk patients in a bloodless and painless manner, was launched. Apollo Hospitals, Bangalore is the first center in India to launch this technology.

15. A rare Spigelian Hernia repair surgery was successfully performed for a 91-year-old female patient. The patient was discharged day after a surgery.

Apollo Hospitals, Bilaspur

1. LSCS of a high-risk pregnancy with GDM with successfully performed for a 35-year-old female patient weighing 120Kg. She had preterm labour pain, which could not be controlled, at the 25th week of the pregnancy and a LSCS procedure was performed. The patient delivered a female child weighing 900gms.

2. A rare condition, Maple Syrup Urine Disease (MSUD) was successfully diagnosed and managed in an eight-day-old baby. The baby was normal after birth on 8th of life gradually developed refusal to feed, lethargy and progressed to coma. Diagnosis was further confirmed by whole exome sequencing showing abnormality in Branched chain ketoacid dehydrogenase E1 subunit alpha (BCKDHA) suggestive of MSUD type 1a. Because of leucine encephalopathy induced cerebral edema the patient was treated with mannitol, frusemide and hypotonic saline, ventilator support and other supportive measures. After recovery from acute stage synthetic formula devoid of leucine, isoleucine and valine formed a part of treatment.

3. Carcinoma prostate was successfully treated with hypo-fractionated radiation treatment in a 70-year-old male patient.

4. Wilson’s disease was successfully diagnosed and managed for a 17-year-old male patient.
Apollo Hospitals, Bhubaneshwar

1. Laparoscopic surgery was successfully performed for a 52-year old female patient, to remove a uterine tumour weighing 5.5 kgs.

2. Robotic gynaecological surgery was successfully performed on a 31-year old female patient who presented with growth of uterine fibroids despite 3 consecutive surgeries. This was the first robotic gynaecological surgery in the state of Odisha.

3. Transjugular Intrahepatic Porto Systemic Shunt (TIPSS) was successfully performed on a 43-year-old male patient suffering from liver cirrhosis with intractable ascites. The procedure was performed to create a direct channel between inflow portal vein that supplies blood to the liver and outflow hepatic vein that takes away blood from the liver to heart. The procedure was carried out without general anesthesia.

4. Endoscopic Submucosal Dissection (ESD) procedure was successfully performed for a 57-year-old male patient diagnosed with rectal carcinoma. The patient had a large (3 cm) polypoid lesion at distal rectum and multiple polyps at different parts of the colon.

5. Robotic surgery was successfully performed to treat uterine conditions in two patients. For one patient robotics was deployed to remove fibroid uterus with menorrhagia. In the second case robotic surgery was performed to treat a case of multiple fibroid with thick endometrium. Both the cases were discharged in less than 24 hours.

Apollo Main Hospitals, Chennai

1. Eighteen minimally invasive cardiac procedures (Robotic assisted CABG -14; Minimally Invasive AVR -1; Minimally invasive MVR - 2) were successfully performed in January 2022.

2. First unicondylar knee (partial) replacement surgery done with robotic assistance.

3. Two cases of extremely rare presentation of Parkinsonism with NOTCH 3 negative CADASIL (cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy) were successfully diagnosed and confirmed by skin biopsy. Notch 3 gene negative CADASIL which was confirmed by skin biopsy is very rare with only five cases described in literature.

4. Bilateral microsurgical varicocelectomy was successfully performed on a patient using the Zeiss Operating Microscope. The patient was a case of bilateral varicocele and primary infertility and was discharged on the same day post-surgery.

5. Dual implant procedure of MitraClip and Transcatheter Aortic Valve Replacement (TAVR) was successfully performed in a 75-year-old male from Sri Lanka. This was Asia's first dual implant of MitraClip and Transcatheter Aortic Valve Replacement (TAVR) on the same patient. The patient had presented with cardiogenic shock with severe aortic stenosis and mitral valve regurgitation. This was further complicated by a cardiac arrest after admission.
6. Nine TAVR and three MitraClips procedures were successfully performed in a span of 24 hours. All the patients recovered within 48 hours of the procedure.

7. Robotic inguinal hernioplasty was successfully performed in HUGO system.

8. Robot-assisted cardiac surgery was successfully performed on a 93-year-old patient for the first time in India.

9. Transradial (via wrist) rotablation of left main artery with the new rota-pro device was successfully performed in a 74-year-old male patient diagnosed with severe calcific left main artery heart disease. Two stents were deployed for the patient. The patient was discharged two days post-procedure. This was the first such case in India.

10. The first case of malleable penile prosthesis was successfully performed for a patient using Zephyr ZSI 100 Swiss malleable implant. The patient was the first one to receive this implant in the Chennai region.

11. Successful removal of a recurrent chest wall malignant tumour in a 50-year-old male patient from Bangladesh. The multi-disciplinary team reconstructed the chest wall using synthetic materials and back muscle tissue.

12. Excimer laser was successfully used to perform laser assisted angioplasty to treat a 66-year old male patient diagnosed with a critical, eccentric calcified LAD lesion.

13. Asia-Pacific's first HugoRAS Robotic Bariatric (OAGB) was successfully performed for a 245kg patient. The procedure was completed in less than 3 hours.

14. Minimally Invasive Aortic Valve Replacement surgery was successfully performed for a 50-year-old patient. The procedure was performed through a 5cm right anterior thoracotomy in the 3rd ICS. The patient was discharged home on 3rd post-operative day.

15. The Apollo Institute of Colorectal Surgery successfully completed over 500 surgeries in six years.

16. India's first, fourth generation (G4) Transcatheter Mitral Valve Repair was successfully performed on three individuals, each of whom were suffering from end-stage heart failure. The fourth generation MitraClip Transcatheter Mitral Valve Repair System allows for edge-to-edge mitral valve repair. The clinicians are able to choose clip size based on a patient's mitral valve anatomy.

17. A rare procedure 'Open Pauli’s Modification Parastomal Hernia Repair and the Laparoscopic Pauli’s Modification Parastomal Hernia Repair for Urostomy with ileal conduit' was successfully performed for a patient.
18. Robotic Total Hip replacement procedures were successfully performed.

19. A 67-year-old critically ill female patient, was flown from Portland, US to Apollo Hospitals, Chennai within 26 hours. The patient from Bengaluru suffered a cardiac failure whilst she was in the US with her family and was admitted initially in a tertiary hospital there.

20. In a first of its kind procedure in India, a 93-year-old male patient was successfully treated for severe blockage in vessels supplying blood to the brain and carotid artery through a minimally invasive procedure, performed under local anesthesia. The treating team decided to keep him awake while removing the blocks, as that was the only way to prevent complications such as stroke and death. The patient had 99% blockage in the right carotid arteries and in all the four blood vessels supplying blood to the brain. The patient also had frequent episodes of falls and giddiness and suffered from hypertension and bronchial asthma.

21. Bilateral branch PA stenting with trans femoral pulmonary valve implantation was successfully performed for a patient. The patient was discharged in 2 days post procedure. This was the first of its kind combined procedure performed in India.

22. Cryo balloon ablation for atrial fibrillation, a new interventional treatment was successfully performed for a 60-year-old female patient.

23. TAVI with Accurate neo 2 valves was successfully performed as the first of its kind procedure in South India.

24. TAVI procedure using a futuristic valve “ACCURATE NEO 2”, was successfully performed for a 67-year old female patient diagnosed with severe aortic valve stenosis. The new valve launched for the first time in the country allows better performance and hemodynamics.

25. Robotic lobectomy was successfully performed for a patient.

26. Per Oral Endoscopic Myotomy (POEM) procedure was successfully performed for 3 patients who had presented with a long history of Achalasia-dysphagia for solids and liquids with regurgitation, recurrent aspiration of food and weight loss.

27. 370 robotic knee replacement procedures were successfully performed.

28. 100 robotic urology surgeries were successfully performed.

29. Minimally Invasive Drainage for Walled of Necrosis (WON), was successfully performed for a 35-year old female patient. The patient had presented with severe necrotizing pancreatitis since last one year. The patient was treated with Lumen Apposing Metal Stent (LAMS).

30. Zephyr ZSI 3-piece inflatable penile prosthesis was successfully performed for a patient. This was the first such case in the state of Tamil Nadu.

Indraprastha Apollo Hospitals, Delhi

1. A 50-year-old female patient from Myanmar successfully underwent laser cordectomy along with donor nephrectomy in the same setting. She had lost her ability to speak due to bilateral vocal cord palsy after undergoing a thyroid surgery in her home country a few years ago and had a tracheostomy due to which she had discomfort in breathing naturally and was unable to speak. The patient had come to India to donate her kidney to a relative in need. She was decannulated after three weeks of the procedure and had an uneventful recovery, and she was able to talk and breathe naturally.
2. Sequential cancer tumor removal surgery was successfully performed for a 61-year-old female patient diagnosed with “double tumours”. The patient had presented with two lumps in her neck and chest. Her underlying conditions included hypertension, obesity and diabetes mellitus.

3. A teenage girl from Pakistan, suffering from atlanto-axial rotatory dislocation that caused her head bent at 90-degree successfully underwent corrective surgery to straighten her neck.

4. A 65-year old female patient gained consciousness after 11-months post recovery from Covid-19 complications. The patient was suffering from diffuse alveolar damage and Gullain Barre syndrome.

5. A life-saving liver transplant procedure was successfully performed from an 8 year old female patient diagnosed with rare Wilson’s disease- a genetic disorder in which excess copper builds up in the body. Both her pre-surgical management and the seamless administration of the liver transplant surgery (with her donor being ABO Compatible) were a challenge. This was an exceptionally rare case where a living related liver transplant was performed within 31 hours of admission.

6. Partial knee replacement was successfully performed for a patient.

7. Vision restoration surgery was successfully performed for a patient from Nepal, suffering from a rare neurological disorder that would cause his eye to bulge out with every heartbeat.

8. Sialo endoscopy was successfully performed for a rare condition, removal of a 1.6-mm stone present in the salivary glands of a 12-year-old female patient. The patient had presented at the hospital with complaint of persistent swelling and pain in the right side of her neck.

9. Successful treatment and management of a 3-month-old child diagnosed with a rare congenital disorder, Total Anomalous Pulmonary Venous Connection (TAPV).

10. Robotic bariatric surgery was successfully performed for a 44-year-old female patient, a US national. The patient was struggling with obesity that had led to uncontrolled diabetes along with hypothyroidism, hypertension, GERD (gastro esophageal reflux disease) and obstructive sleep apnea for the past seven years.

11. A rare condition of ‘Primary Synovial Chondromatosis of the Hip’ was successfully treated in a 50-year-old male, through Total Hip Arthroplasty.
12. A 64-year-old female patient was successfully treated for lumbar canal stenosis through lumbar drain and clinical management. The patient presented with decreased sensorium and was immediately intubated and admitted in the ICU due to the episodes of generalized tonic-clonic seizure (GTCS). This case was critical because the patient recently undergone a neurosurgical procedure and had also developed infection.

13. Reverse shoulder arthroplasty (RSA) was successfully performed for a 30-year old male patient from Africa. The patient had presented with a chronically locked anterior dislocation of the left shoulder.

14. Wireless pacemaker implantation was successfully performed for a patient from Tanzania. He was diagnosed with abnormal coronary artery origin.

15. Cholangioscopy along with EHL was successfully performed for a patient, a known case of post LDLT with anastomotic stricture with hepatolithiasis. He had undergone underwent multiple ERCP’s at outside hospitals. The stones were broken into fragments and were removed with balloon sweeps.

16. Transcatheter Mitral Valve Replacement (TMVR) procedure was successfully performed for a 61-year-old female patient. The patient had earlier undergone Mitral Valve replacement in 2017 but it did not result in long term benefit. Her valve degenerated giving her symptoms of breathlessness, tiredness, she also developed an irregular rhythm (Atrial Fibrillation AF).

17. A high risk and rare surgery for total femur replacement, replacement of entire thigh bone, a knee and a part of hip as successfully performed for a 60-year-old male patient from Nigeria. The patient was undergoing treatment for recurrent giant cell tumors for the past 12 years. This surgery, which saved the amputation of the patient’s lower limb lasted for 5 hours.

18. Knee deformity was successfully corrected for a 28-year old patient from Oman, through 3D printing technology. The patient had presented with fracture of the left knee since 11 years and fixation with a plate in his country. However, the fracture had malunited and his knee was painful, deformed and unstable. A virtual pre-operative planning was done using specialized computer software and then a 3D model was printed. Thereafter Trans Condylar Valgus Osteotomy (TCVO) of the tibial condyle was performed, fixation with a titanium locking plate and a Tricalcium Phosphate (TCP) wedge insertion in the osteotomy gap. The knee deformity was fully corrected, and the knee pain subsided completely.

19. Robot Assisted Total Arterial Bypass Surgery was successfully performed for a 64-year old male patient from Fiji. He had been suffering from chest discomfort for the past two years and had uncontrolled blood sugar levels and impaired kidney function.

20. The family of a 14-year-old boy, who was declared brain dead by a panel of doctors at Apollo Hospitals, Delhi, donated his vital organs, including the heart and saved the lives of six patients.
21. A rare surgery was successfully performed in a 29-year-old male patient to remove a lymphoma from his windpipe. The patient had complained of chest pain and progressive swelling in his neck. Bronchoscopy revealed a large mass in his windpipe causing 80 per cent blockage. The surgery was challenging, due to the size of the tumour. The patient was earlier diagnosed with Tuberculosis.

22. Robot-assisted minimally invasive surgery was successfully performed for a 59-year-old male patient from Myanmar who had presented as a rare case of esophageal diverticulum.

**Apollo Hospitals, Guwahati**

1. A 36-year-old male patient diagnosed with traumatic paraparesis, successfully underwent transthoracic anterior spinal corpectomy and fixation with an expandable cage implantation at D7 vertebral body fracture.

2. A complex procedure, colojejunal anastomosis with jejunoo-jejunostomy, ileocolic anastomosis along with feeding jejunostomy and right ICD of the right pleural cavity was successfully performed for a 21-year old female patient. The patient had presented with corrosive stricture of esophagus and stomach following an accidental ingestion of room cleaner one year back, due to which she was unable to take solid food. Post-operative period was uneventful and patient was discharged on post-operative day nine. The patient was able to take normal diet by mouth.

3. Colonic conduit surgery was successfully performed for a young male patient who had accidently consumed corrosive acid.

4. Spleen preserving distal pancreatectomy was successfully performed for a 32-year old male patient diagnosed with solid tumor arising from the pancreatic body.

5. Successful treatment of 'Fronto Nasal Encephalocele with ACF Bony defect’ in a 6-year old male child. The patient was admitted with complaints of seizure, multiple episodes of vomiting and neck pain with care of Fronto Nasal Encephalocele since birth. Post-surgery, the child was stable and showed no signs of raised ICP.

6. A complex biliary reconstruction surgery was successfully performed in a young female patient with a large 10x 12 cm Choledochal Cyst with biliary anatomical variations.

**Apollo Excelcare Hospitals, Guwahati**

1. Minimally Invasive Cardiac Surgery (MICS) MVR was successfully performed for a 38-year-old male patient with severe MR and presented with NHYA Class IV.

2. Successful treatment of a patient diagnosed with Steven Johnson Syndrome progressing to TEN and Sepsis. Further the patient was suffering from severe anaemia, hypoalbuminemia, leukopenia, thrombocytopenia and Klebsiella infection.

3. IVUS (Intra Vascular USG) and Rotablation for Calcific Coronary lesions was successfully performed for three patients.
Apollo Hospitals, Hyderabad

1. Apollo Hospital, Hyderabad, performed a Complete Robotic Bariatric surgery, the first of its kind surgery in Telangana states. The surgery was performed on a 40-year-old female patient from Somalia, who weighed 180 kg and was suffering from various health complications.

2. Robotic assisted thymectomy, was successfully performed for a 41-year-old male patient who presented with complaints of cough and shortness of breath for 4 weeks and an 8.5 cm anterior mediastinal mass in front of the major vessels of the heart.

3. A 29-year-old male patient was treated for recurrent giant cell tumour of left talus. The patient had presented himself with left ankle pain. Since the talus was almost completely destroyed by the tumour, a metal talus was the option to replace it and restore functionality. The metal talus with precise dimensions was made by the in-house 3D printing team. The patient was discharged on the 3rd day post surgery.

4. Prostate Artery Embolization was successfully performed for a 50-year old male patient. This was the first such case in the AP and Telangana region.

5. Microwave Ablation of Benign Thyroid Nodule was successfully performed for a 35-year old male patient. This was the first such case in the AP and Telangana region.

6. Uniportal Robotic Surgery for complex thoracic procedures, has been launched. The technique involves the use of robotic arm through only a 3 cm long incision on the chest of the patient.

7. Microwave ablation of adenomyosis, a conservative uterine preserving procedure was successfully performed for a 40-year old female patient. This was the first of its kind surgery in South India.

8. Pediatric Transcatheter Pulmonary Valve Implantation (TPVI) was successfully performed in a 17-year old male patient. This procedure was the first of its kind in the twin states. The adolescent was born with a cyanotic heart disease, Tetralogy of Fallot.
9. Trans-catheter Mitral Valve Repair with Mitraclip implant, was successfully performed in an 87-year-old male patient, diagnosed with severe mitral regurgitation and COPD. The case was first of its kind in the Telugu states.

10. A minimally invasive trans oral robotic surgery (TORS) was successfully performed to treat a 50-year-old female patient of neurogenic tumor. The patient, had presented with a complaint of persistent cough for the last six months with a natural hollow in the throat in the tonsils area.

11. RotaPro technology was successfully used to treat heavily calcified coronary artery disease during PTCA stenting in a patient.

12. Successful treatment and management of a 30-year-old male patient suffering from severe stage of Avascular Necrosis (AVN) of the hip. The treatment involved application of Ossgrow, the DGCI approved targeted and personalized cell therapy-based solution to reverse AVN.

13. Pediatric Robotic Surgery- Diverticulectomy with Ureteric Re-implantation was successfully performed for a 9-month old infant. The baby had presented with recurrent UTI and fevers. On evaluation, he was diagnosed to have left sided Hutch-Bladder diverticulum with ureter opening into the diverticulum.

14. A complex surgery was successfully performed to treat a rare condition, 'giant anterior sacral meningocele associated with hydro-ureteronephrosis and renal injury' in a 36-year old female patient.

15. A rare condition, 'beauty parlor stroke syndrome' was successfully managed in a 50-year old female patient. The patient had suffered a stroke while getting her hair washed before a haircut. A key vessel supplying blood to the brain was pressed when she had bent back her neck for the wash, causing the stroke. Clots were seen in her right cerebellum and in a key artery in the back of the neck.

16. Impella device CPR was successfully performed to manage cardiac arrest in a 56-year old male patient. The patient had sudden chest pain and dizziness on a flight. He presented at the hospital with severe breathing difficulties and low oxygen saturation levels. A primary angioplasty was performed after he was intubated in emergency, connected to a ventilator, and taken to a Cath lab. He had critical blockages in 3 places with total blockages of major channels which caused the massive heart attack. His blood pressure continued to worsen during his angioplasty that was being performed on IABP support. The medical team hence made an immediate decision to increase circulatory support by installing an Impella device.

17. A complex surgery using neuro-navigation and INTRAOP MRI guidance, was successfully performed for a 9-year-old child diagnosed with pituitary microadenoma - Cushing's disease.

18. Scar-less Removal of breast lump under ultrasound-guided Vacuum Assisted Breast Biopsy (VABB) Technique was successfully performed for a
39-year-old female patient. The patient had presented with complaints of lump in her right breast with associated pain in the premenstrual period since 2 years. Post procedure, the patient was kept under observation for half an hour and discharged for follow-up.

Apollo Hospitals, Hyderguda

1. A 22-year-old patient, brought in the hospital in a life threatening condition due to deep cut in his neck due to a kite ‘manja’, was successfully managed. The patient was profusely bleeding from the neck, he was pale and had an abnormally rapid heart rate. The intense injury had severed several blood vessels including the external jugular, thyroid gland, and neck muscles. The windpipe too had a cut. The patient was shifted to the OT immediately for the complex surgery. The patient was discharged post-stabilization.

Apollo Hospitals, Indore

1. Day Care Robotic TKR was successfully performed. This was the first such case in India.

2. First case of bio-absorbable stent (MeRes 100) was successfully performed.

3. Total hip replacement was successfully performed for a patient with rheumatoid arthritis with protrusio acetabuli. It was an operative challenge as protrusio acetabuli had to be corrected intraoperatively- reduction of dislocated head of femur lateralization of acetabulum and reconstruction of acetabulum.

4. Rotablation using RotaPro was successfully performed for the first time in Madhya Pradesh. The handheld rotablation device (instead of traditional foot-operated) gives better control.

5. Successful completion of 159 joint replacement surgeries.

6. Impela supported complex PCI was successfully performed for a patient for the first time in central India.

7. Over 88 joint replacement surgeries and 12 robotic surgeries were successfully performed in the month of August 2022.

8. A rare case of synovial chondromatosis of hip joint was successfully treated in a 29-year old male patient through the Mini-Arthroty technique. The patient had presented with left hip pain and restricted movements. On examination ROM was terminally restricted, X-ray and CT revealed typical snow storm pattern.

9. Bilateral femur fracture fixation was successfully performed using TFN implant in a 30-year old male patient who had sustained polytrauma after a road traffic accident. He had presented with shock, with very low pulse and BP. The patient was medically managed in the ICU initially. TFN implant was used for the first time in the region.

10. A rare case of Synovial Chondromatosis of hip joint was successfully treated through the Mini-Arthroty Technique in a 29-year-old male patient.

11. 3D printing technology was successfully deployed to perform a re-do total hip replacement surgery for the first time in central India.
Apollo Hospitals, Jayanagar

1. Successful treatment and management of a 64-year old male patient thickened lumbar plexus and sensory axonal neuropathy of saphenous nerve involving medial aspect of left thigh and knee. The patient had presented neuropathic pain along with saphenous nerve distribution, affecting his routine activities. There ultrasound-guided hydrodissection of saphenous neuroma in the adductor canal using 5% dextrose without any adjuvants was performed. The procedure was uneventful and the patient started showing symptomatic relief.

2. Spigelian hernia repair surgery along with appendectomy was successfully performed for an 81-year old female patient.

3. Intravascular flow diverter, contour device was successfully used to manage recurring subarachnoid hemorrhage in a 31-year old female patient.

4. Ablation of ventricular tachycardia under 3-D guidance was successfully performed for a patient. This was first of its kind procedure in the city of Bangalore.

5. Impella guided angioplasty was successfully performed for an 84 year old patient diagnosed with completely occluded RCA and LCX.

6. Minimally invasive treatment of thermal ablation for parathyroid adenomas was successfully performed for two patients with primary hyperparathyroidism. The procedure was done with just local anesthesia, with immediate post-op recovery and discharge within a few hours. This was a first of its kind procedure in South India.

7. External oblique intercostal plane block (EOIPB), a new intervention, was successfully adopted in six patients, to manage postoperative analgesia for surgeries involving the upper abdomen.

8. A novel technique, bronchoscopic thermal vapor ablation (BTVA), was successfully performed to treat a 47-year old male patient diagnosed with COPD. BTVA offers a minimally invasive intervention for COPD patients to improve their quality of life.

Apollo Hospitals, Kakinada

1. Open right ureteric re-implantation surgery was successfully performed for a 6-month old male child diagnosed with primary obstructive megaureter, a rare congenital anomaly with one Incidence in 10,000.

2. A rare and critical surgery for stone removal from an ectopic kidney was successfully performed in a 70-year-old male patient.

4. Pulmonary hemorrhage following viper snake bite was successfully managed in a 36-year old male patient. The patient presented at the hospital 40-hours after the incident.

**Apollo Hospitals, Karaikudi**

1. Successful management of a patient who presented to the hospital, post-thrombolysis, with inferior wall myocardial infarction. The patient was intubated due to low GCS 6/15 and immediate rescue PTCA was performed. Two days post-procedure, the patient was weaned from the ventilator and discharged.

2. Total facial reconstruction was successfully performed for patient with unilateral temporomandibular right joint ankyloses.

**Apollo Hospitals, Karimnagar**

1. Core decompression cartilage osteoblast implantation (BL) was successfully done for a patient.

2. Regrow procedures were successfully performed for 3 patients.

3. Transcatheter Aortic Value Replacement was successfully performed for a patient.

**Apollo Adlux Hospital, Kochi**

1. Neuro fusion surgery using neuro-navigation system was successfully done for a patient.

2. Left bundle branch pacing was successfully performed for a patient.

3. Endoscopic transforaminal lumbar inter-body fusion under neuro-navigation in the awake state was successfully performed for a patient.

4. Large ASD device closure was successfully performed in a 2-year-old child.

5. Fenestrated pedicle screws with cement augmentation in osteoporotic spine fracture at D-12 was successfully performed in a 72-year-old female patient.

6. Awake brain surgery- realtime ultrasound navigation guided resection of left centrum semiouval lesion, was successfully performed for a patient

7. Surgery was successfully performed for a 45-year old diabetic male patient having a complex distal femur open fracture with 23 cm bone loss.
Apollo Multispeciality Hospitals, Kolkata

1. Apollo Multispeciality Hospitals, Kolkata has successfully performed over 4000 Minimally Invasive Cardiac Surgeries, the highest in Eastern India.

2. Eastern India’s first Robotic Renal Transplant was successfully performed on a 25-year-old patient at Apollo Multispeciality Hospitals, Kolkata.

3. Apollo Multispeciality Hospitals, Kolkata successfully treated a rare congenital heart condition of a 35-year-old patient.

Apollomedics Hospitals, Lucknow

1. Oesophageal substitution surgery by gastric transposition was successfully performed for a 1-year-old male child, who had presented as a case of wide gap oesophageal atresia with tracheoesophageal fistula.

2. Successful management and treatment of a 27-year-old female patient diagnosed with Tetralogy of Fallot with multiple MAPCAS. The patient had presented with low oxygen levels (SpO2 65-70), with intermittent TET Spells. Patient was intubated in view of low SpO2 and significant MAPCAS were coiled in the cathlab. Thereafter, open-heart surgery and total intra-cardiac repair of TOF was performed. Post stabilization the patient was discharged in a normal condition.

3. Intra Vascular Ultrasound (IVUS) with virtual histology and optimized Double Vessel Angioplasty was successfully performed in a patient having unstable angina.

4. Successful surgical management of a 15-year-old Iraqi boy with Klippel Trenaunay associated with left knee contracture. The patient had presented with knee contracture of 120 degrees. He had earlier undergone multiple failed open surgeries with wound complications. The patient was surgically managed with ring fixator and hinges for gradual correction of the deformity.

5. C-arm guided Celiac Plexus Neurolysis was successfully performed for a 66-year-old female, a known case of metastatic gall bladder and on palliative treatment. She had presented with severe abdominal pain with VAS of 90-100, not relieved with Inj morphine and fentanyl patch. Post-procedure the patient had complete pain relief and was discharged.

6. Cyto Reductive Surgery along with Hyperthermic Intraperitoneal Chemotherapy (HIPEC) was successfully performed for a 31-year-old female patient with recurrent mucinous adenocarcinoma of unknown origin. The patient was having progressive disease limited to ovaries and peritoneum. Her performance status was ECOGPS1.

7. Zero Contrast PCI was successfully performed for a female patient, a known case of CKD with rising creatinine levels.

8. A complicated procedure was successfully performed to treat a patient diagnosed with sino-nasal adenocarcinoma intestinal type p53 mutated and extending till skull base. The patient underwent endoscopic endonasal resection with complete tumor removal and dissection from skull base, olfactory fibrils orbit laterally and nasal septum.

9. A four-year-old female child with one-month old accidental gunshot wound of head was successfully managed. Angiography revealed metallic foreign body. The bullet had impacted along left antero-lateral aspect of occipital condyle in close relationship with left internal carotid causing mild indentation. The patient was operated via left lateral skull base approach and retrieval of foreign body was done. Post-op GCS was E4V5M6 and the patient was discharged in a stable condition.

10. A complex procedure, Deep Hypothermia and Cardiac Arrest (DHCA) was successfully performed for a female patient diagnosed with burst giant aneurysm which had compressed both optic...
nerves. The patient had presented to the emergency with acute blindness and headache. Urgent surgery was undertaken for aneurysm clipping but during surgery the aneurysm was found un-clippable due to adverse structure and abnormal feeding arteries. Attempt at feeder coiling also failed. The patient was operated next day under DHCA. Post-surgery, optic nerve pressure was released totally and patient was discharged after 10 days.

11. Successful treatment and management of a 26-year old female patient who presented with an alleged history of attempted suicide by hanging. On arrival to the hospital she had an SPO2 of 70%, GCS E1VTM1, CT thorax indicative of left pneumothorax with pneumo-mediastinum and hypoxic-ischemic injury. She was managed though intensive care treatment. Patient responded to a few sessions of prone ventilation along with lung protective ventilation strategy and her FiO2 requirement came down. Aggressive physiotherapy continued during her entire stay at the hospital. Regular weaning trials were successful and she was finally de-cannulated on day 14 and shifted to the wards. She became fully conscious before being discharged on the 20th day.

12. Single Operator Cholangioscopy (Spyglass) with EHL (Electrohydraulic Lithotripsy) successfully performed for a patient with multiple difficult CBD stones with distal biliary stricture. The patient had failed 2 prior ERCPs previously. Surgical CBD exploration was unnecessary and Lap Cholecystectomy was performed subsequently.

13. PDA closure was successfully performed with an ADO device for a 4-year-old patient diagnosed with having a 4mm patent ductus arteriosus (PDA) with left-to-right shunt. He had presented to the hospital with history of recurrent chest infection, suboptimal growth and palpitations.

Apollo Hospitals, Madurai

1. Microsurgery was successfully performed to restore the amputated left hand for a 39-year old male patient. The patient had sustained amputation of left hand following assault. The amputated hand was brought in a plastic bag. Post-surgery, patient was discharged with his viable hand and physio protocol recommended to attain functionality.

2. Cardiac resynchronization therapy with defibrillator [CTR-D] and quadripolar lead was successfully performed for a 66-year old male patient. The patient was diagnosed with old anterior wall infarction with EF of 25%, recurrent heart failure despite optimal medical therapy. He had presented with cardiogenic shock with ventricular tachycardia. Treatment with the CRT D device is a unique form of treating heart failure with poor LV function with ventricular arrhythmia.

3. Left main bifurcation angioplasty was successfully performed as an emergency procedure for a 56-year-old male patient. The patient was diagnosed with critical left main stenosis and triple vessel disease.

4. Sub-occipital craniotomy was successfully performed to remove brain stem glioma in a 14-year-old male patient. The patient had presented with symptoms of involuntary movement of limbs and imbalance in walking for past 2 months. The lesion in the midbrain measured around 3 cm and was compressing the superior cerebellar peduncle on the right side.

5. A rare open neural tube defect, Limited Dorsal Myeloschisis (LDM), was successfully diagnosed and managed in an 8-day old child. The patient presented with imaging features suggestive of neurogenic bladder and syringohydromyelia. Untethering surgery was performed under IONM guidance. Apart from the rarity of the condition, this case is unique because of the use of IONM in a neonate to perform a complex procedure.

6. A high-risk procedure, Endoscopic Transnasal DCR and Orbital Decompression was successfully performed to drain Orbito Lacrimal abscess for an 81-year old female patient. The abscess was drained through nose from the medial corridor. She
had a culture positive for MRSA and pseudomonas which was taken care of by appropriate IV antibiotics. The patient recovered well and had a complete visual recovery.

**Apollo Hospitals, Mysore**

1. Organs of a 45-year-old brain dead female patient at Apollo BGS Hospitals, Mysore gave a new lease of life to five people. Her kidneys were donated to two patients in Apollo Hospitals, Mysore. The liver, heart valves and corneas were donated to patients in other hospitals.

2. A 16-year old female patient diagnosed to have large 30 mm ostium secundum atrial septal defect shunting and pulmonary hypertension successfully underwent the surgical closure of the defect. The patient was extubated successfully on the table after confirmation of adequate respiratory efforts and satisfactory ABG. The patient had an uneventful recovery and was discharged on 3rd postoperative day.

3. Pediatric liver transplant and split liver transplant were successfully performed for the first time at Apollo Hospitals, Mysore.

4. A rare procedure Endoscopic Ultrasound (EUS) guided Gastrojejunostomy was successfully performed to treat a 49-year-old male patient with recurrent cancer of pancreas and having undergone surgical resection (Whipple's pancreaticoduodenectomy) five years' back.

5. Bipolar hip replacement surgery was successfully performed for a 102-year-old male patient.

6. A 90-year-old female patient successfully underwent mechanical thrombectomy to manage the silent stroke episode. The patient had presented with sudden onset of weakness in the right side of the body and difficulty in speech. Post procedure, she could communicate as before and walk independently in 2 days.

7. A rare condition, Rapunzel Syndrome was successfully treated in a 73-year-old male patient, who had presented with hematemesis. The Trichobezor (ball of hair) that was blocking the pylorus, had a long tail of 45 cm and it was removed endoscopically, instead of a surgical removal.

8. A complex procedure, Whipple's Pancreticodeodenectomy was successfully performed for a 13-year-old male patient, with recurrent acute pancreatitis. This was a first of its kind case in the city.

9. CT guided trans gastric celiac plexus neurolysis was successfully performed for a patient. The patient had presented with severe pain and a diagnosis of carcinoma stomach with liver metastases.

**Apollo Hospitals, Nashik**

1. Underwater endoscopic mucosal resection technique was successfully performed to remove a 49-year-old male patient with recurrent cancer of pancreas and having undergone surgical resection (Whipple's pancreaticoduodenectomy) five years' back.

**Apollo Hospitals, Navi Mumbai**

1. A 52-year-old male patient diagnosed with Right Carotid Giant Aneurysm measuring more than 3.5 cm, was successfully treated. DSA with flow diverter stenting across the aneurysm was performed. Patient was later discharged with good prognosis.
2. Superficial parotidectomy with nerve grafting was successfully performed for an 11-year old male patient, diagnosed with Acinic Cell Carcinoma. The patient had presented with a painless firm nodular welling of approx. 3 cm in the left parotid gland. Salivary gland malignancy in children is rare. This case was unique as meticulous dissection is required to resect this tumor in a surgically challenging scenario. Reconstruction of the facial nerve allowed to spare adjuvant radiation in a young child ensuring an optimal outcome.

3. Sex Reassignment surgery was successfully performed for a patient.

4. Successful management of a 52-year-old male patient diagnosed with septic shock with necrotizing encephalitis. This case is unique because necrotizing encephalitis usually has a poor prognosis. This patient had a stormy course with rapidly evolving MRI findings. The clinical progression could be arrested due to timely IV steroids and IVIG with favorable outcome.

5. Liver transplant surgery was successfully performed for four patients following COVID-19 recovery.

6. An 86-year-old male patient with critical complex condition was successfully managed with IMPELLA, the artificial heart pump. The patient presented with calcific coronary artery disease with severe LV dysfunction, chronic kidney disease, COPD and was suffering from heart failure and urgently needed treatment for blockages. Post procedure, the patient became stable. The IMPELLA was withdrawn after the patient’s condition improved.

7. Minimally invasive robotic surgery of right upper lobectomy was successfully performed for a 26-year old female patient diagnosed with tumor in right upper lobe bronchus.

8. A 96-year old paralyzed female patient successfully underwent laminectomy surgery to remove a clot that was compressing her spinal cord. She is one of the oldest people to undergo successful spine surgery.

9. A 70-year-old male patient diagnosed with immune thrombocytopenic purpura was successfully managed. Laparoscopic splenectomy was performed for the patient. The patient had a successful recovery in spite of the risk involved.
10. Successful second toe transfer surgery with restoration of full range of thumb movements was successfully performed for a 36-years-old male with history of crush machine injury and complete amputation of right thumb at the level of proximal phalanx which was not re-plantable.

11. Two complex cases of brain aneurysms were successfully treated through endovascular route with an advanced ‘Contour Device’. The patients could not be treated through conventional means due to location of aneurysms, wide neck nature of the aneurysm and medical co-morbidities.

12. Tumor excision surgery was successfully performed for a 14-year-old female patient diagnosed with left lateral ventricular tumor with communicating hydrocephalus. The case was unique due to highly vascular CSF producing tumor where VP shunt could not alone manage CSF load. Pre-operative embolization could not tackle posterior feeders forcing a posterior approach for dominant left hemisphere with speech, vision and motor power at risk. Hence supra-marginal gyrus under navigation guidance was undertaken.

13. A complicated procedure was successfully performed to treat a four-month-old baby from Mauritius, diagnosed with Congenital Rubella Syndrome that had caused Patent Ductus Arteriosus, a birth defect of the heart.

14. TAVI procedure was successfully performed for a 74-year-old female patient diagnosed with severe calcific aortic stenosis.

15. Ocular Surface Squamous Neoplasia (OSSN-Carcinoma of the ocular surface tissue) was successfully treated for a 35-year-old, one-eyed, male patient from Tanzania. Wide local excision of the conjunctival tissue was performed with Cryotherapy to the cut edges followed by alcohol-assisted Keratoepithelietomy of the adjoining Corneal epithelium and reconstruction of the Ocular Surface with Amniotic Membrane Transplant. The patient received 1 month of Topical Chemotherapy with Mitomycin C. The operated eye became disease free and the patient had full vision with glasses.

16. Left lateral ventricular tumor with communicating hydrocephalus was successfully treated for a 14-year-old female patient. The patient had presented with diplopia and headaches for one month. Left supra-marginal gyrus approach and excision of choroid plexus papilloma, was undertaken. Post-excision patient became shunt independent and her VP shunt was ligated.

17. A rare condition, Melioidosis, was successfully diagnosed and treated in a 11-year-old male child. The child had presented with fever for 12 days, cough and breathlessness. He was also admitted in another hospital for 7 days. This case is unique because Melioidosis, which is a waterborne infection, is very rare disease in India.

18. Apollo Hospitals, Navi Mumbai, announced the completion of 53 life-saving paediatric liver transplant surgeries. The Hospital has undertaken total 170 liver transplant cases of which 34 are Cadaveric and 12 are International.

19. Heart transplant was successfully performed for a 40-year-old male patient. The patient had presented with heart failure two years ago due to ischemic cardiomyopathy and had undergone a triple-vessel angioplasty. The organ for transplant
was received from a patient at another private hospital in the city.

20. A new technique, 'all-endoscopic distal biceps repair and reconstruction' was developed. This technique of extra-articular endoscopy in the cubital fossa of the elbow creates a safe and reproducible method of repairing distal biceps ruptures. This is the first such surgical technique in the world and was conceptualized to provide a solution to performing these repairs without dissection of the cubital fossa and avoid the high complication rate associated with open repair.

21. Bilateral Prostatic Artery Embolization (PAE) for BPH was successfully performed as a non-surgical minimally invasive alternative for an 81-year-old male patient, known case of atrial fibrillation. The procedure was performed under local anesthesia using XperCT in angiography suite. The patient was discharged next day without Foley’s catheter.

Apollo Hospitals, OMR

1. Endoscopic left carpal tunnel release was successfully performed for a patient.

Apollo Hospitals, Secunderabad

1. A rare case of fatal poisoning, Paraquat poisoning, was successfully treated by the medical team. The patient recovered and had a normal discharge.

2. Whipples pancreatico duodenectomy with superior mesenteric vein resection and reconstruction was successfully performed for a patient diagnosed with borderline resectable carcinoma pancreas.

3. A complex surgery was successfully performed to treat a rare case of diffuse carcinoma of stomach 'Linitis Plastica'. The tumor was intra-operatively found adherent to distal pancreas and distal transverse mesocolon

4. A large falcine meningioma excision was successfully performed in a 60-year old female patient using Cavitron Ultrasonic Surgical Aspirator (CUSA). The patient was discharged on 4th POD with no deficit.

5. A case of PUO with E. coli bacteremia and cholestatic jaundice was successfully diagnosed to be due to acute prostatitis with prostatic abscess. The PSA was found to be normal in the patient.

Apollo Hospitals, Seshadripuram

1. Acute appendicitis with Amyand’s hernia was successfully treated.

2. A rare condition, Neurogenic Bladder, was successfully treated for a 25-year old male patient through bladder surgery and live-related-donor kidney transplantation. Moreover, no Induction was used for this transplant surgery.

3. Organs donated by the family of 28-year old brain dead patient gave a new lease of life to 6 patients.

Apollo Cancer Institute, Teynampet

1. Successful diagnosis and treatment of left supraclinoioid ruptured aneurysm and right MCA bifurcation aneurysm in a 50-year-old female patient. High definition Mitaka Neuro-microscope and intraoperative ICG visualization was used to facilitate the complex procedure.

2. Posterior Kyphosis deformity correction surgery, for a 6-year-old male child from Oman, was successfully performed with stabilization through Magnetic Expansion Control (MAGEC) rods. This was the first time in South India that this implant was used. Post-surgery child was mobilized with brace and discharged within a week.

4. Spondylodiscitis was successfully diagnosed and managed in a 13-year-old male patient. The patient underwent posterior decompression, stabilization and occipito-cervical fixation. Since the biopsy-revealed tubercular etiology, the patient was started on ATT.

5. A rare condition in the elderly, Diffuse Idiopathic Skeletal Hyperostosis (DISH), Forestier's Disease presenting as Dysphonia and Dysphagia was successfully diagnosed and managed for a 77-year old male patient. The patient had presented with chronic progressive dysphagia since 1 year and acute onset dysphonia since 10 days.

6. Innovative technique of Non-Fusion Anterior Scoliosis Correction T6-T12, was successfully performed for a 7-year-old female child to correct her spinal deformity that was diagnosed at an age of one year.

Apollo Hospitals, Trichy

1. Graves' disease was successfully treated for a 21-year old female patient by managing her through non-steroidal anti-inflammatory drugs. The anti-thyroid drugs, prescribed through outside hospital were immediately stopped. Her polyarthritis resolved within 2 weeks of stopping the medication. She underwent radioactive iodine ablation for Graves' disease. The present case highlights the importance of recognizing antithyroid arthritis syndrome – a rare adverse effect of antithyroid medication, which can result in severe migratory polyarthritis.

Apollo Hospitals, Vanagaram

1. Innovation to convert the usual laryngoscope into a video laryngoscope using a low cost LED camera attached to it and a mobile phone as the screen to view was initiated.

2. A complex procedure, "left common carotid to left subclavian artery bypass with ligation of left proximal subclavian artery + endovascular repair of type B aortic dissection with stent (Medtronic-Valiant Thoracic Captiva)" was successfully performed for a 54-year-old male patient, a case of hypothyroidism, HbsAg positive status and presenting with the complaints of chest pain.

3. TAVR was successfully performed for a 74-year old male patient a known case of diabetes, CAD, post- CABG. The patient had presented with recent onset of breathlessness and critical triple vessel disease.

4. Transcatheter Mitral Valve Replacement (TMVR) was successfully performed in a 72-year old male patient who had undergone mitral valve replacement, CABG, 11 years back. The patient had presented with degenerated mitral bioprosthesis with grade 3 valvular leak.

5. Trans-catheter Mitral valve replacement (TMVR) was successfully performed in an 83-year-old male patient. He had presented to the hospital with of sudden onset breathing difficulty. The patient had undergone CABG surgery + mitral valve replacement 11 years back, a redo mitral valve replacement 6 years ago, was also diagnosed with chronic kidney disease and erosive gastritis.

Apollo HealthCity, Vizag

1. A rare condition, Spondylo Ocular Syndrome (SOS) was successfully diagnosed and managed in a 3-year old female patient. SOS is an autosomal recessive skeletal disorder, which is a result of biallelic XKYT2 gene defect. The patient had presented with a fracture on left femur and had sustained fracture of the same bone at 7 months of age. The child was noted to have a short neck, large head, thick eyebrows and prominent eyes.

2. First-ever Trans catheter Mitral Valve Replacement (TMVR) in the state of Andhra Pradesh, was successfully performed for a 61-year old female patient.
Apollo Hospitals, Ramnagar, Vizag

1. A complex surgery was successfully performed in a patient with BMI 36, to treat strangulated hernia and MODS with huge voluminous hernia sac, multiple bowel loops with resection of 100cm of gangrenous distal ileum.

2. Rota-Pro technology was successfully used to treat severe coronary calcification in an elderly patient.

3. Eosinophilic pneumonia following occupational exposure of NSAIDs was successfully diagnosed and treated for a 30-year-old male patient.

4. Therapeutic ankle arthroscopy for treating ALAIS and secondary osteoarthritis was successfully performed for a 32-year-old male patient.

Apollo Spectra Hospitals, Pune

1. An 80-year-old male patient successfully underwent Transversus Abdominis Release (TAR) and hernioplasty with mesh at Apollo Spectra Hospitals, Pune. TAR is a relatively new procedure performed for large hernias.

Adult Vaccination

The reduction of disease through immunization is one of the greatest medical successes of the 20th century. With increasing life-expectancy and declining fertility rates, the population of older people (60 years and above) is growing at a faster pace as compared to general population. This phenomenon of population ageing has implications on socio-economic and health status of the elderly who are more susceptible to certain diseases with increased morbidity and mortality.

Adult vaccination drive is necessary to ensure protection against Vaccine Preventable Diseases (VPDs) and their potential complications which might compromise the quality of life of adult population.

Apollo Hospitals Group introduced this program with an aim to immunize adult Indian population against Vaccine Preventable Diseases (VPDs) for which approved vaccines are available within the country.

The following vaccines are covered under the program:

- Influenza
- Pneumococcal
- Tdap
- Shingles
- Hepatitis B (for unvaccinated and/or high-risk groups)
- HPV (for females)

Initiatives undertaken across all Apollo Hospitals for Adult Vaccination:

- Adult vaccination rooms created in all hospitals
- Standard Operating Process (SOPs) created for adult vaccination and circulated in all units
- Central and in-house CMEs on the topic ‘adult vaccination’ conducted in all locations
- Average number of 15,000 adult vaccinations are given in a month
- Launch of patient education on the importance of adult vaccination over digital channels (website, social handles)
Apollo Center of Excellence in Critical Care (ACECC)

The year 2022 witnessed significant integration of Apollo Critical Care on a number of fronts. Firm foundations were laid for establishing Apollo Critical Care as a leader for providing remote critical care.

Work Streams and Initiatives of Apollo Centre of Excellence in Critical Care

- **Standardised Mortality Ratio**

  Standardised Mortality Ratio (SMR) is an internationally recognised method of assessing performance of critical care units. A value of SMR <1 suggests above average performance. And a value of SMR >1 suggests below average performance.

  ACECC made a case for measurement of SMR in every unit of Apollo Hospitals. A standardised methodology was developed, and training workshops were conducted for the Critical Care units across the country. SMRs for all the individual units are presented to a central review team each month. It is a matter of extreme satisfaction that overall, all our units have so far consistently reported SMR to be <1, testifying to the clinical excellence in critical care.

- **International Symposium on E-ICU**

  Whilst provision of digitally enabled remote critical care can be a game changer in many circumstances, conceptual, definitional and governance considerations arise. These considerations triggered a collaboration between the Faculty of Intensive Care Medicine (FICM), Apollo Centre of Excellence in Critical Care (ACECC) and the College of Intensive Care Medicine of Australia and New Zealand (CICM) to explore this developing opportunity and practice. One first step has been to deliver a joint International Symposium on Remote Critical Care, https://www.youtube.com/watch?v=ezjgESjujac which examined the global current status and developments in delivery of remote critical care.

- **Description of Levels of Critical Care**

  Description of levels of critical care and triggers were streamlined for escalation of care and referrals including implementation plan, terms of engagement and value proposition.

- **Critical care Quality Indicators**

  A dashboard has been developed to show the quality of critical care services across the Apollo Hospitals network.

- **Repository of Critical Care Protocols and SOPs**

  A Manual of Critical Care Protocols and SOPs have been developed which serves as benchmark for the high-quality critical care delivered by Apollo Hospitals

- **Programme of Education**

  The multidisciplinary, Apollo Knowledge Series webinars are held once every month. Each webinar involves a lead moderator, critical care doctor and a critical care nurse – all from different Apollo Hospitals, across India. The invitations go to all the relevant clinical teams within the Apollo ecosystem as well as outside. The recordings of these webinars are available on Youtube as well as Medvarsity platform.

- **Collaborations with Apollo Connect**

  The Apollo Connect and ACECC are now fully aligned in their aims and objectives of increasing the footprint of liaisons with non-Apollo hospitals/healthcare providers.
• Collaborative National/International Initiatives
The Centre of Excellence is fully engaged with the Faculty of Intensive Care Medicine in the UK and national societies of intensive care in Australia, New Zealand, Canada and United States of America in the area of Remote Critical Care.

• Enhanced Connected Care
An ambitious program of enhanced monitoring and care within the Apollo Hospitals was launched. The aim of this program was to improve patient safety and quality within the Apollo Hospitals network.

The Apollo Hospitals network has 10,000 inpatient beds, of which 2500 are dedicated to providing critical care (ICU and HDU). As per estimation, there are approximately 4000 additional inpatient beds which would benefit from enhanced monitoring during their admission in normal ward care. A program was specially designed for patients who had more than one system disorder and would benefit from extra monitoring in order to pick up early warning signs of any deterioration in their condition.

Teams from ATHS, Corporate IT and ACECC came together to put forward a comprehensive program to address the requirement. A pilot study was carried out and after a successful outcome, this ambitious transformational program was rolled out throughout all Apollo Hospitals. The program has placed Apollo Hospitals as the pioneers in enhanced connected care and embarked on a journey to be one of the safest, inpatient care systems in the world.

Robotics
The Apollo Institute of Robotic Surgery is considered to be the best in India and is committed to providing patients with exceptional clinical outcomes. The state-of-the-art operating theatres at Apollo Hospitals are equipped with:

- Da Vinci® Surgical System, the most advanced platform for minimally invasive surgery

- Renaissance Robotic Technology, which is the only technology specifically designed for spine surgery

Apollo hospitals is the first in Asia-Pacific to offer this surgical guidance system, which is a minimally-invasive robotic-guided spine surgery system.

Advantages of Robotic Surgery at Apollo
Robotic Surgery treatment in India at Apollo Hospitals offers many benefits to patients as compared to open surgery, including:

- Shorter hospitalization
- Minimal surgical scarring on the body
- Faster recovery time and return to normal activities
- Reduced blood loss and transfusions lesser than 10%
- Reduced pain and discomfort post surgery
- Smaller incisions, resulting in reduced risk of infection
- Faster recovery time and return to normal activities

Apollo Hospitals carried out 10,512 robotic surgeries in 22 sub-disciplines from 2011-2022 and took the lead in India by performing a major share of robotic surgeries in India during the past 12 years.

The number of robotic surgeries during the past several years had an exponential growth in numbers and were carried out at different Apollo Hospitals across the country.

Apollo Hospitals, Chennai took the lead in performing the maximum number of robotic surgeries.

<table>
<thead>
<tr>
<th>Apollo Hospitals Locations</th>
<th>Number of Robotic Procedures performed 2019-22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chennai</td>
<td>2275</td>
</tr>
<tr>
<td>Delhi</td>
<td>882</td>
</tr>
<tr>
<td>Hyderabad</td>
<td>760</td>
</tr>
</tbody>
</table>
The landscape of modern medicine has witnessed a tremendous paradigm shift due to Genomics and has transformed the knowledge and understanding about health and disease. The objective is to make Genomics accessible, practical and meaningful for Indian healthcare. The Apollo Genomics Institute, is committed to building a robust Medical Genetics platform, dedicated to improving genetic health, awareness, education and research.

In the year 2022, the Apollo Genomics Institute expanded from a single center in Delhi to seven centers across the Apollo Hospitals network. The Genomics team in each of the institutes comprises of qualified Clinical Geneticists and Genetic Counsellors, who work in close tandem with the clinicians to tackle the genomics aspects of the clinical conditions.

The Apollo Genomics Institute has supported over 1000 cases across a variety of specialities including Oncology, Neurology, Pediatrics, Cardiology, Fatal medicine, Nephrology and Endocrinology. In Delhi alone, we have had over 500 new consultations in last 2022, which speaks a lot about the potential that Genomics offers to Diagnostic as well as Therapeutic medicine.

Expanding from the first Genomics Institute at Indraprastha Apollo Hospitals, Delhi, clinical genetics teams were set up at Apollo Hospitals in Chennai, Mumbai, Bangalore, Hyderabad, Kolkata and Ahmedabad.

One of the key focus of the Clinical Genomics team is to develop awareness regarding the genetic causes to various clinical conditions. The team conducts a monthly specialty CME for all the practicing clinicians. The Clinical Genomics teams participate in the department level meetings as well to and bring to the fore, the underlying genetic possibilities for the clinical cases. The team also participates in periodic Tumor Board meetings and aim to make these multidisciplinary forums a “Molecular Tumor Board” in true sense.

The Clinical Genomics team also takes the opportunity to increase awareness regarding rare diseases that confound the clinicians and are not possible to diagnose without a detailed genetic work-up.

As Clinical Genomics involves a lot of time working with families after obtaining appropriate testing, these services are provided online as well, so that clinicians and families from smaller cities can also leverage the benefit of the services.

Genetic Testing is an integral part of the Clinical Genomics. The Apollo Genomics Institute is rigorously working to ensure that appropriate testing is done for patients that add value to the clinical diagnosis and management. In this regard, Apollo Diagnostics has taken the initiative to set-up a central Laboratory testing facility dedicated to Genomics and would
leveraging its nation-wide reach to make it available to patients at all Apollo Hospitals in India.

**Bio-banking**

Sapien Biosciences was launched in 2012 recognizing the strategic long-term importance of a comprehensive multi-disease biobank for Apollo and Indian medical research. Sapien is a pioneer in Indian biobanking. Within 10 years, Sapien has emerged as one of the top 10 biobanks in the world with >250,000 patient samples from many diseases and associated data which is curated and coded by the biobank. Sapien has an established governance and ethical foundation that complies with ICMR guidelines, including a DHR-registered biomedical research ethics committee (EC) and approvals from Apollo hospitals ECs.

The samples and data at Sapien are used for new R&D applications to personalize diagnostics and drugs to benefit patients. A few examples of this are given below.

1. **Determining the landscape of genetic variants in Indian cancer patients**

Indian data comprises less than 5% of global genomic data. To address this gap, Sapien partnered with Thermo Fisher, USA, to sequence ~1000 cancer samples by NGS. Molecular insights gained from our Indian cancer mutations show that drugs such as Trastuzumab targeting ERBB2 or HER2 gene, approved for breast and gastric cancer, can also benefit other cancer patients with similar gene mutations in lung, thyroid, glioma and endometrial cancers.

Thermo has shared that the NGS data generated using Sapien samples has led to the FDA approving their OncomineDx panel for personalizing treatment of 4 cancers. Sapien is also analyzing the phenotype-genotype data with the first paper being written up on lung adenocarcinomas data.

2. **Whole slide image (WSI) Library for AI+ML driven digital pathology algorithms**

Sapien is creating high-resolution libraries of pathology slides from the >60,000 cancer cases for which demographic & diagnostic data has been curated by the biobank. In breast cancer, matched sets of H&E, ER, PR, HER2, Ki67/MIB images from the same case have been scanned at 40X magnification from 750+ cases, spanning all stages, grades and histotypes. Benign tumors and normal breast tissues have also been included as controls. These images and phenotype data are being used to develop predictive algorithms for diagnosis and treatment.

Microsatellite instability (MSI) is an important determinant of benefit of using immune-oncology drugs for cancer patients. Sapien has tested the MSI status of ~700 cancer cases e.g., colorectal, endometrial, gastric, H&N, liver, thyroid cancers. Matched sets of H&E, MLH1, MSH2, MSH6, PMS2 images from the same case are being scanned digitally. ImageNet, IBM, TCGA have large image datasets in oncology; Sapien’s digital library is the largest such database for Indian cancer patients.
3. Assessing the anti-cancer activity of new drugs in combination with I-O drugs

Sapien has successfully established live 2D and 3D cell cultures (OncoPrime™) from several surgically resected cancer tissues (PDCs), e.g., brain, breast and oral cancers. Many cancer stages and grades are captured in our cell panels. These are used to determine the anti-cancer activity of novel drugs alone and in combination with approved immune-oncology drugs like Keytruda, in state-of-the-art co-culture assays using stimulated lymphocytes or PBMCs to kill cancer cells.
Centers of Excellence (COEs)

Apollo Hospitals has dedicated Centers of Excellence (COEs) for several key specialities and super-specialties. These centers of excellence are unique in terms of their service spectrum and are spread across various Apollo Hospitals locations:

- Cardiovascular Sciences
- Orthopedics
- Neurosciences
- Oncology
- Transplant
- Emergency

Key differentiating factors for Centers of Excellence

- A learning institution with focus on Academics and Research
- Trust of 125 million patients built with 40 years of Experience
- Expertise of over 11000 clinicians in 55 specialties
- We understand how to keep you safe as we know that “Life is Priceless”
- World class outcomes comparable to the best in the West because India deserves the best
Center of Excellence - Cardiovascular Sciences

Spanning across 38 hospitals with 375+ consultants, Apollo Hospitals is the first and largest private tertiary care institution for cardiovascular sciences in India, attracting patients across the globe for best-in-class outcomes, seamless service delivery at reasonable price points, when compared internationally.

The clinical offering at Apollo Hospitals is one of the most comprehensive in the world spanning treatment for structural heart disease, minimally invasive and robot assisted surgery, transplant services and India’s first AI driven cardiac risk prediction and disease prevention program.

The clinical strength is also backed by state of the art infrastructure including - third generation Cath Labs, Cardiac Critical Care Units and Intensive Care Units for support.

### Cardiac services are offered at 38 units:
- Apollo Hospitals, Ahmedabad
- Apollo CVHF Heart Institute, Ahmedabad
- Apollo Hospitals, Bangalore
- Apollo Hospitals, Bilaspur
- Apollo Hospitals, Bhubaneshwar
- Apollo Hospitals, Chennai, Greams Road
- Apollo Children’s Hospitals, Chennai
- Apollo First Med Hospital, Chennai
- Apollo Specialty Hospitals, Vanagaram, Chennai
- Indraprastha Apollo Hospitals, Delhi
- Apollo Hospitals, DRDO, Hyderabad

### Existing Clinical Expertise - Cardiology
- Structural Heart Disease – TAVI, Mitra Clip
- Electrophysiology – Physiological pacing, Leadless pacemakers, Cryo Balloon Ablation
- Robotic angioplasty
- Complex angioplasties (multi-vessel disease, complex lesions)
- Cardio Thoracic Surgery

### Minimally Invasive Cardiac Surgery (MICS)
- Robot Assisted Cardiac Surgery
- Heart Failure Assist Devices
- Heart Transplant/Heart-Lung Transplant (En-bloc)
Cardiology COE – Service Spectrum

- Interventional Cardiology
  - Diagnostic
    - Coronary Angiogram
    - Electrophysiology (EP) Study
  - Procedures
    - Coronary Angioplasty (PTCA)
    - RF Ablation
    - Cryo Balloon Ablation
    - Trans-catheter Aortic Valve Implantation (TAVI)
    - Trans-catheter Mitral Valve Implantation (TMVI)
    - Tricuspid Valve procedure
    - Rotation Atherectomy (Rotablation)
    - Intravascular Lithotripsy (IVL)
    - Circulatory Support Devices: ECMO, Impella
    - Endovascular graft for Aortic aneurisms
    - Peripheral angioplasty
  - Devices
    - Temporary Pacemaker
    - Permanent Pacemaker
    - Implantable Cardioverter Defibrillator (ICD)
    - Cardiac Resynchronization Therapy with Defibrillator (CRTD)

- Cardiac Surgery
  - Coronary Artery Bypass Graft (CABG)
  - Aortic Valve Replacement / Repair (AVR)
  - Mitral Valve Replacement / Repair (MVR)
  - Minimally Invasive Cardiac Surgery (MICS)
  - Robotically Assisted Cardiac Surgery
  - Pediatric Surgery
  - Surgery for congenital disorders
  - Left Ventricular Assist Device (LVAD)
  - Heart Lung Transplant

- Medical Cardiology
  - Cardiac Imaging
  - Electrocardiogram (ECG)
  - 2D Echo-cardiogram
  - 3D Echo-cardiogram
  - Holter Monitor
  - Emergency Heart Command Center
  - Hypertension / Stroke management

Academics and Research- Cardiovascular Science

<table>
<thead>
<tr>
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<tr>
<td>Cardiology - 31</td>
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<tr>
<td>Cardio Thoracic Surgery - 11</td>
</tr>
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</table>

Center of Excellence – Orthopedics

With a team of the best orthopedicians providing excellent treatment at Apollo Hospitals, the patients are assured of complete recovery from bone and joint problems.
problems. Orthopedic services at Apollo Hospitals have the latest cutting-edge technology in terms of equipments, operating rooms, recovery areas and advanced physical therapy facilities. Dedicated and well equipped orthopedic surgery complexes with laminar flow and various modern equipment like image intensifiers, operating microscopes, computer navigation systems and top of the line arthroscopy systems form an integral part of this COE.

**Orthopedics services are offered at 40 units:**

- Apollo Hospitals, Ahmedabad
- Apollo Hospitals, Bangalore
- Apollo Hospitals, Bilaspur
- Apollo Hospitals, Bhubaneswar
- Apollo Hospitals, Chennai
- Indraprastha Apollo Hospitals, Delhi
- Apollo Jubilee Hills, Hyderabad
- Apollo Gleneagles Hospitals, Kolkata
- Apollo Hospitals, Madurai
- Apollo Hospitals, Navi Mumbai
- Apollo Hospitals, Vizag
- Apollo Hospitals, Secunderabad
- Apollo Reach Hospitals, Karimnagar
- Apollo Hospitals, OMR
- Apollo Hospitals, Seshadripuram
- Apollo Hospitals, Kakinada
- Apollo Hospitals, DRDO
- Apollo First Med Hospitals, Chennai
- Apollo Hospitals, Karaikudi
- Apollo KH Hospitals, Ranipet
- Apollo Hospitals, Guwahati
- Apollo Hospitals, Aragona
- Apollo Hospitals, Nellore
- Apollo BGS Hospitals, Mysore
- Apollo Hospitals, Karur
- Apollo Health city, Vizag
- Apollo Hospitals, Indore
- Apollo Hospitals, Ambawadi
- Apollo Hospitals, Nashik

**Existing Clinical Expertise-Orthopedics**

- Bilateral Minimally Invasive Knee Surgery
- 3D Robotic knee replacement (Unicondylar)
- Cell Therapy
- Eazy- AIM - Electronic digital targeting system
- Rehabilitation Centre - ApoKos
- Renaissance Spine Robot
- Joint Navigation
- Robotic rehabilitation – Lokomat
- Point of care 3D Medical printing lab

**Orthopaedics COE – Service Spectrum**

- Articular Cartilage Implantation (ACI)
- Arthritis care
- Arthroscopic and reconstructive techniques
- Bilateral minimally invasive knee surgery and 3D robotic knee replacement
- Cartilage regeneration surgery, including microfracturing, mosaic-plasty
- Comprehensive foot and ankle care
- Dedicated units for trauma
• Fast track Total Knee Replacement

• Geriatric orthopaedic care

• Joint replacements including hip resurfacing and knee replacements (primary, complex primary and revision replacements)

• Modern sports medicine centres

• Minimally Invasive Knee Replacement Surgery (MIKRS)

• Orthopedic Oncology for treating bone cancers

• Physical therapy units to provide rehabilitation and pain management

• Regenerative medicine

• Robotic-guided techniques

• Shoulder surgeries and the most delicate hand micro surgeries

• Specialised pediatric orthopedics units offering the whole range of pediatric orthopedics

• Using a revolutionary combination of CT imaging/mapping, modelling software (virtual)

• 3D printing technology

• Pediatric Orthopedics

Academics and Research - Orthopedics

Academics and Research Number
Adjunct Titles of Clinical Tutors 08

DNB seats

Orthopedics - 40

Center of Excellence - Neurosciences

The Apollo Institute of Neurosciences has revolutionized high-end neurological care in the country. The legacy of innovation and excellence is further augmented through latest emergency services, neuro-intensive care facilities and neuro rehabilitation. The main goal is to work towards cutting-edge neuroimaging including Intraoperative MRI, neuro-intensive care, medical and radiation oncology services to deliver outcomes that match the leading neurology institutions in the world. We have established a comprehensive epilepsy management programme.

To elevate the level of stroke care, a highly skilled multidisciplinary neurosciences team has dedicated itself to enhancing patient care through cutting edge technology. Treatments of seizures or epilepsy as well as modern treatments for movement disorders like Parkinson’s disease are further specializations under the functional neuro-surgical units. The Apollo Institute of Neurosciences has taken stroke management to the next level by standardizing stroke diagnosis and empowering clinicians with AI technology to redefine stroke protocols across all the hospitals. AI for stroke will reduce the treatment time, to make faster, more accurate diagnosis and treatment decisions to improve clinical outcome for stroke patients. More than 1000 major neurosurgeries are being carried out every year.

Apollo Hospitals have partnered with nursing homes to build largest network of comprehensive stroke management that will lead to multiple patient benefits.
This platform uses artificial intelligence to create high quality, advanced images from non-contrast CT, CT angiography, CT perfusion, MRI diffusion and perfusion scans. This facilitates hospitals to speed up time-critical triage or transfer decisions for better patient outcomes. The stroke team will be able to remotely access the brain scans of stroke patients with the AI analysis on a mobile app email for faster decision making without losing time. The physicians are able to evaluate the patient without needing to be physically present and visit only when the AI analysis of the scans suggest indication for treatment.

The AI technology enabled advanced stroke management is to be launched at Apollo Hospitals locations at Bengaluru, Chennai, Navi Mumbai, Ahmedabad, Hyderabad, Delhi, Jayanagar, Sheshadripuram, Mysore and Indore.

**Neuro services are offered at 37 units:**

Apollo Hospitals, Ahmedabad
Apollo Hospitals, Bangalore
Apollo Hospitals, Bilaspur
Apollo Hospitals, Bhubaneshwar
Apollo Hospitals, Chennai
Indraprastha Apollo Hospitals, Delhi
Apollo Jubilee Hills, Hyderabad
Apollo Gleneagles Hospitals, Kolkata
Apollo Hospitals, Madurai
Apollo Hospitals, Navi Mumbai
Apollo Hospitals, Vizag
Apollo Hospitals, Secunderabad
Apollo Reach Hospitals, Karimnagar
Apollo Hospitals, OMR
Apollo Hospitals, Seshadripuram
Apollo Hospitals, Kakinada
Apollo Hospitals, DRDO
Apollo First Med Hospitals, Chennai

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**Existing Clinical Expertise - Neurosciences**

- Micro – Neurosurgery
- Complex Spinal Surgeries/ Minimal Access Spine Surgery
- Surgery for Spinal Cord Tumors
- Surgery for Acute Head Injury and Spinal Injuries
- Stroke prevention / Stroke treatment
- Epilepsy Surgery
- Skull Base Surgery
- Surgery for Parkinson’s disease
- ICG Integrated Spectroscopic Surgery
- Neuro-Endoscopic Surgery for Pituitary Tumors/CSF Leaks
- Endovascular Coiling of Aneurysms/ Vascular Malformations
- Vertebroplasty
Neurosciences COE – Service Spectrum

- Auditory brain-stem implant (ABI)
- Botulinum toxin injection for neurological disorders
- Brain Tumour surgeries- including deep-seated and closer to brain stem tumour surgeries with intraoperative MRI
- Deep brain stimulation (DBS) for Parkinson's disease and movement disorders
- EC-IC bypass (extracranial-intracranial bypass) – where the brain's blood supply is augmented by diverting blood from blood vessels of face to brain
- Endovascular coiling of aneurysms and vascular
- ICG integrated spectroscopic endoscopic pituitary surgery
- Mechanical thrombectomy for acute stroke
- Micro – neurosurgery
- Neuro-endoscopic surgery for pituitary tumors and CSF leaks
- Pediatric neurosurgery
- Skull base surgery
- Stroke prevention / stroke treatment
- Surgery for parkinson's disease
- Surgery for spinal cord tumors
- Surgery for acute head and spinal injuries
- Thrombolysis- intravenous intra-arterial and mechanical for acute stroke
- Mechanical Thrombectomy
- Vertebroplasty

Academics and Research- Neurosciences

<table>
<thead>
<tr>
<th>Academics and Research</th>
<th>Number</th>
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<td>Neuro Surgery - 20</td>
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<td>Neurology - 18</td>
<td></td>
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<tr>
<td>Neuro Anaesthesia - 3</td>
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</table>

Center of Excellence – Oncology

Apollo Hospitals is a pioneer for cancer care across India. The locations where Apollo Hospitals provide oncology services are; Ahmedabad, Bangalore, Bhubaneswar, Bilaspur, Teynampet, Taramani, Chennai, Delhi, Hyderabad, Madurai, Lucknow, Kolkata, Mumbai, Navsari, and Vizag. New centre included under the vertical is Vanagaram. There are 300+ oncologists present across Apollo Cancer Centres to ensure comprehensive cancer care services with new technologies.

Apollo Cancer Centres are present at the following 14 units:

- Apollo Proton Cancer Centre, Chennai
- Apollo Cancer Centre, Teynampet
- Apollo Hospitals, Ahmedabad
- Apollo Hospitals, Bangalore
- Apollo Hospitals, Bilaspur
- Apollo Hospitals, Bhubaneswar
Indraprastha Apollo Hospitals, Delhi
Apollo Jubilee Hills, Hyderabad
Apollo Hospitals, Navi Mumbai
Apollo Hospitals, Vizag
Apollo Medics Hospital, Lucknow
Apollo Hospitals, Madurai
Apollo Gleneagles Hospitals, Kolkata
Apollo Hospitals, Navsari (New Project)

**Existing Clinical Expertise - Oncology**

<table>
<thead>
<tr>
<th>Program</th>
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<tbody>
<tr>
<td>Limb Salvage Surgery</td>
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<tr>
<td>HIPEC</td>
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<tr>
<td>TACE and TARE</td>
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<tr>
<td>RFA</td>
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<tr>
<td>Bio Bank</td>
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<tr>
<td>Cancer Genetics</td>
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<tr>
<td>Liquid Biopsy</td>
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<tr>
<td>Vaccine Therapy</td>
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<tr>
<td>Immunotherapy and Targeted Therapy</td>
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<tr>
<td>CART Therapy – Clinical Trial in final phase</td>
</tr>
<tr>
<td>Theralogistics</td>
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<tr>
<td>Breast Oncoplasty</td>
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<tr>
<td>Precision Oncology</td>
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<tr>
<td>Advanced Ortho Oncology Program with 3D Application</td>
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<tr>
<td>Advanced BMT Program</td>
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<tr>
<td>Hypo Fractionation</td>
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<tr>
<td>Uro-Onco Clinical Program</td>
</tr>
</tbody>
</table>

**Technology**

- ZAP
- LINAC
- Robotic Surgery System
- Tomotherapy
- PET CT
- Cyberknife
- Proton
- MP MRI Fusion Biopsy
- Vacuum assisted Biopsy

**New Infrastructure**

<table>
<thead>
<tr>
<th>Infrastructure</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMT Ward</td>
<td>Bangalore, Teynampet</td>
</tr>
<tr>
<td>New Cancer Centre</td>
<td>Mysore</td>
</tr>
<tr>
<td>Expansion of Chemotherapy Couches</td>
<td>Bangalore</td>
</tr>
<tr>
<td>Theranostics Ward</td>
<td>Bhubaneswar, Bangalore, Navi Mumbai, Kolkata</td>
</tr>
<tr>
<td>POC Centres -</td>
<td>Delhi, Kolkata, Chennai, Bangalore, Hyderabad, Navi Mumbai</td>
</tr>
</tbody>
</table>
Oncology COE – Service Spectrum

- Colonoscopy
- ERCP (Endoscopy Retrograde Cholangiopancreatography)
- Endoscopy
- Interventional Radiology – TACE and TARE
- MRCP (Magnetic Resonance Cholangiopancreatography)
- PET CT
- PSMA PET CT
- CT SCAN
- Magnetic Resonance Imaging
- Mammogram
- Ultrasound Scanning
- Biochemistry
- Microbiology
- Digital pathology
- Molecular pathology
- Pathology
- BMT (Bone Marrow Transplant)
- Chemotherapy
- Immunotherapy
- Targeted therapy
- Theranostics
- Brachytherapy (Internal Beam Radiation Therapy)
- Image Guided Radiation therapy
- Intensity-modulated radiation therapy
- Proton therapy
- Stereotactic body radiation therapy (SBRT)
- Stereotactic Radio Surgery (SRS)
- 3D Conformal Radiation therapy
- Volumetric Radiotherapy (VMAT)
- Palliative Radiotherapy
- Total Body Irradiation
- HIPEC
- Limb Salvage Surgery
- Minimal Invasive Surgery
- PIPAC
- Radio Frequency Ablation
- Breast Reconstruction/ Breast Conservative surgery
- Microvascular flaps in Head and Neck Cancer
- Reconstruction after the recession of the jaw bone
- Robotic Onco Surgery
- Bilateral Video Assisted Thoracic Surgery
- Value-based Medicine
- Easy Check – Breast cancer
- Precision Medicine – Focusing on precise treatment and outcomes
- Tumour Board
- Cancer Registry

Academics and research

- Collaboration with IBA – Proton Practicum at APCC
- Collaboration with Varian
  - HALCYON reference site Kolkata
- 7 hearts
- 6 combined kidney and pancreas
- 4 combined liver and kidney
- 3 combined heart and lungs

AIT has made landmark achievements of performing over 500 paediatric liver transplants.

AIT has retained the position of the busiest solid organs programme in the world for nine consecutive years since 2013.

It has performed over 22,586 solid organs transplant since inception: comprising 17,991 kidneys, 4130 livers and 465 other organs.

AIT provides solid organs transplant services across 24 centres in which 16 centres offer liver transplant services, nine for heart transplant, eight for lungs transplant and 6 other organs transplants.

AIT has the largest clinical team of 284 comprising of Nephrologists, Kidney Transplant Surgeons, Hepatologists, Liver Transplant Surgeons, Heart & Lung Transplant Surgeons and Multi-organ Transplant Surgeons.

Apollo Institute for Transplant (AIT) has performed the highest ever solid organs transplants- 1641, in calendar year 2022.

The solid organ transplant numbers at Apollo Hospitals for the year 2022:
- 1362 kidneys
- 247 livers
- 12 lungs
Transplant COE – Service Spectrum

- Living donor organ transplant
- Deceased donor organ transplant
- Adult transplant
- Paediatric transplant
- Kidney transplant
- Liver transplant
- Heart transplant
- Lung transplant
- Combined heart and lung transplant
- Pancreas transplant
- Intestinal transplant
- Multi-organ transplant
- Cornea transplant
- ABO incompatible transplants

Infrastructure

Apollo has unbeatable infrastructure for the transplant programme:

- Modular OTs
- Dedicated Transplant ICUs
- Dedicated Post Transplant wards
- Highly Skilled and Trained Clinical and Support Teams
- Organ Oxmeta, can keep a liver ‘alive’ for up to 24 hours after donation.

Academics and Research - Transplant

<table>
<thead>
<tr>
<th>Academics and Research</th>
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<tbody>
<tr>
<td>Adjunct Titles of Clinical Tutors</td>
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</table>

Center of Excellence – Emergency

Apollo Hospitals has pioneered pre-hospital and emergency care in the country. Access and continuity of care is maintained through the graded Emergency Departments which have uniform protocols and pathways. The protocols are designed to respond quicker and have proven outcomes that are on par with the very best in the world. The multi-specialty prowess is leveraged actively to deliver the crucial edge in emergency care.
Elements of the Emergency Centre of Excellence include:

Prehospital Care

- Easy Access National Number – 1066
- Ground Support - BLS & 24 X 7 ACLS Ambulances, 2-Wheeler First Responder Services. Critical Care Transport
- Air Ambulance – Fixed Wing National and International retrievals

Triaging

- Uniform protocols to minimize waiting times

ED

- Advanced Resuscitation Services (ARS)
- Clinical Pathway based Care – acute MI (Chest pain)- CODE STEMI, acute stroke – CODE FAST, polytrauma, sepsis.
- Major Emergencies – All major medical and surgical emergencies including OBGYN, environmental and toxicological emergencies.
- Minor Emergencies – All health-related issues which needs medical attention. Fast Track Clinics including after-hours services. Minor procedures including procedural anesthesia.
- Medico legal Emergencies – Motor vehicle crashes, burns, fall from height, workplace injuries, assault, poisonings, animal bites and sexual abuse.
- Bedside Ultrasound and Echo procedures – For FAST scan, Central Lines, HHD catheters, Lung Ultrasound and 2 D Echo
- Pain management – Multimodal analgesia for severe acute pain, options including Nerve blocks, Regional anaesthesia, Entonox, Intravenous Opiates

Specialized Emergency Care

Pediatric Emergency Care

Geriatric Emergency Care

Infectious Diseases – Isolation, Barrier Nursing

Crisis and Disaster Management

- Disaster Medical Assistance Team (DMAT)
- Periodic Disaster response drills with Governmental and other agencies
- Pre-hospital / On Scene Disaster Response
- Pandemic Response – Isolation and Medical Management

Community Programs

- CPR Training
- First Aid Training
- Workplace based Emergency Response Training

Quality Initiatives

- More than 12 parameters are monitored across each of the Emergency Departments of the Apollo Group and graded with the best centers across the globe to achieve optimal outcomes. Quality improvement projects are also undertaken by each department

Tele Emergency Services

- Occupational Health Units
- Remote Health Units
- Awareness Programs – Seasonal Emergencies.

Academics and Research- Emergency

The Emergency Departments at Apollo Hospitals not
only run DNB courses but have hosted DNB final exams on many occasions.

Apollo Emergency Departments contribute to the Royal College of Emergency Medicine Learning Website through learning modules on a regular basis. This also includes online publications.

Apollo Hyderabad and Apollo Chennai host the MRCEM OSCE exams for the RCEM.

### Existing Clinical Expertise - Emergency

<table>
<thead>
<tr>
<th>Clinical Expertise</th>
</tr>
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<tbody>
<tr>
<td>Emergency 2.0</td>
</tr>
<tr>
<td>Air Ambulance</td>
</tr>
<tr>
<td>Code FAST</td>
</tr>
<tr>
<td>Code STEMI</td>
</tr>
<tr>
<td>E-ICU</td>
</tr>
<tr>
<td>ReSQCPR System</td>
</tr>
<tr>
<td>Clinical Pathways – Acute MI, Acute Stroke, Poly trauma and Sepsis</td>
</tr>
<tr>
<td>Advanced Resuscitation Services – Targeted Temperature Management, Primary Angioplasty and ECMO.</td>
</tr>
<tr>
<td>Aero Medical Transport – Domestic and International Retrievals.</td>
</tr>
<tr>
<td>Highway Trauma Rescue and Retrievals</td>
</tr>
<tr>
<td>Pandemic Response – Triage, Screening and Treatment.</td>
</tr>
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</table>

### Academics and Research - Emergency

<table>
<thead>
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<th>Academics and Research</th>
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<tr>
<td>Adjunct Titles of Clinical Tutors</td>
<td>2</td>
</tr>
<tr>
<td>Honorary Adjunct Professor in Emergency Medicine</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>DNB seats</th>
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</thead>
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<tr>
<td>Emergency Medicine - 10 per year</td>
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</table>
INFORMATION TECHNOLOGY
INFORMATION TECHNOLOGY

Information Technology 90
Information Security and Data Privacy System at Apollo Hospitals 90
HIMSS Certification 91
Compliance to Ayushman Bharat 91
CHiME: Digital Health Most Wired 2022 91
INFORMATION TECHNOLOGY

Information Technology

Information Technology has the most considerable influence on healthcare. By delivering more accurate, actionable and accessible information related to patient’s health, it supports shared decision-making between patients and healthcare professionals. Quality improvement and clinical decision support powered through Healthcare IT, establishes links for social support for patients and healthcare professionals alike.

Information Security and Data Privacy System at Apollo Hospitals

Information Security Management System - ISO/IEC 27001:2013 is implemented at all Apollo Hospitals. This standard applies to the health information infrastructure of Data Centres located at the Apollo Hospitals and the supporting activities viz. IT Support, Medical Records Management, HR, Admin and Facility Management. It is ensured that all information handled by the healthcare fiduciary to the stakeholders, particularly patients on safe handling of patient information and sensitive healthcare data is at the highest level of industry standard.

The re-certification for ISO/IEC 27001:2013 was completed in September 2022.

HIMSS Certification

Apollo Hospitals is the first healthcare system in the Asia Pacific to be awarded three, Stage 6 certifications for HIMSS digital maturity models.

Apollo Hospitals achieved accreditations for the Digital Imaging Adoption Model (DIAM), the Outpatient Electronic Medical Record Adoption Model (O-EMRAM) and the Infrastructure Adoption Model (INFRAM). It is the second healthcare system in the world to be awarded a Stage 6 DIAM certification.

HIMSS INFRAM Stage 6- Enterprise Digital Clinical and Operations Solutions

The INFRAM measures the technical infrastructure setup in a health system. By identifying benchmarks for organizations, it ensures that the infrastructure is stable, manageable and extensible.

Apollo achieves stages 6 as compared to an average score of 2.6 for facilities in APAC and 3.4 in NA.
HIMSS O-EMRAM Stage 6- Enterprise Digital Infrastructure Solution

The O-EMRAM gauges the maturity of EMR technology in outpatient facilities, while INFRAM measures IT infrastructure maturity across five areas – mobility, security, collaboration, transport and data centre.

The Group’s patient portal was found to be “one of the finest examples of patient communication” during its O-EMRAM validation. Its patient app features multiple functionalities, including payment options, appointment setting, health monitoring and device integration capability. Apollo Hospitals also reported no unplanned downtime in the past five years.

HIMSS DIAM Stage 6- Enterprise Digital Clinical Imaging Solution

During its DIAM validation, Apollo Hospitals was commended for its use of biomarkers, molecular imaging, and mapping software. It also showed finesse in using graphs and dashboards to understand and visualize data. DIAM assesses the secure delivery of medical imaging and its associated processes.

Compliance to Ayushman Bharat

Apollo Hospitals has completed the integration with Ayushman Bharat Digital Mission (ABDM) ecosystem.

CHiME: Digital Health Most Wired 2022

Apollo Hospitals has received Level 9 achievement for Acute and Ambulatory care setting in the coveted Digital Health Most Wired Survey 2022 results released by the College of Healthcare Information Management Executives (CHIME).
The survey and recognition program serves as a comprehensive “Digital Health Check-up” for healthcare organisations worldwide. Among the more than 38,000 organisations surveyed by CHIME, Apollo Hospitals ranked significantly above peers in categories like analytics and data management, population health, infrastructure and patient engagement.
APOLLO 24|7

Apollo 24|7
Service Description and Milestones
APOLLO 24|7

Apollo 24|7

The digital arm of Apollo Hospitals, Apollo 24|7 packs in the 40-year-long legacy of Apollo Hospitals. It is a palm-friendly healthcare guardian, that can enable online doctor consultations, diagnostic tests and pharmacy purchases, as easy as clicking a button.

Established three years ago with the vision of making healthcare accessible to every Indian, Apollo 24|7 has already earned the trust of 23 million users, with more than one million people accessing the platform daily for content, purchase and other engagements.

The brand currently stands amongst the top three e-commerce health tech platforms in the country and is also India’s fastest-growing health-tech platform.

Created with a vision of eliminating flexibility blockages from the healthcare industry, Apollo 24|7 aims at making healthcare affordable to everyone by combining analytic excellence, affordable cost and extensive research with advanced technology. Apollo 24|7 is a single online platform where the community has access to a wide range of services such as online pharmacy, online doctor consultations, and diagnostic lab tests at home. Expert solutions for chronic conditions with a secured digital vault are also available where the patient’s all medical reports can be uploaded.

Service Description and Milestones

Online Doctor Consultations

Apollo 24|7 brings Apollo Hospitals’ vast ecosystem of 6000 doctors from more than 90 specialities onto a single platform, making world-class healthcare accessible to every Indian regardless of their geographical location. Users can connect with a specialist of their choice via audio, video and chat mediums, or book in-person appointments at the nearest Apollo Hospital. In the year 2022, the platform witnessed over one million completed consultations from over 7 lakh unique users.

Medicine Delivery

Apollo 24|7 has a robust inventory of 60000+ products listed from a network of 5000+ Apollo Pharmacies. With a promise of 2-hour delivery in select pin codes, the platform currently services 90% of pin codes in India. Apollo 24|7 completed 13 million pharmacy orders in the year 2022.
Diagnostic Tests

With the launch of doctor-curated packages, Apollo 24|7 fulfilled 1.7 million diagnostic orders for a loyal base of 5 lakh unique customers.

Patient Health Records

A step towards truly digitising healthcare in India, Apollo 24|7 provides an in-app vault for users to upload and save their health records, including consultation case sheets, prescriptions, online and offline purchase records and lab reports. These are accessible to users and doctors around-the-clock for easy reference.

CIE - Clinical Intelligence Engine

Another first from Apollo, CIE is an AI-based intuitive clinical assistant built by doctors, for doctors to power primary care, condition management, home care and wellness.

The assistive tool is developed using the latest techniques in AI and ML which evolves in its learning from millions of clinical data points from Apollo Hospitals’ clinical knowledge base and real-world data.

CIE at present understands a combination of over 1200+ common and rare diseases prevalent in the region along with 800+ unique symptoms, to assist doctors with faster differential diagnosis and more efficient clinical management.

The tool, so far has been adopted by 4000 doctors, who witnessed a tangible improvement in productivity, operational workflow and patient satisfaction.
APOLLO PHARMACY
APOLLO PHARMACY

Apollo Pharmacy
Service Description and Milestones
Apollo Pharmacy

Apollo Pharmacy is India’s first and largest organized and branded retail pharmacy network. Apollo Pharmacy plays a crucial role in ensuring patient care. It has an effective supply chain with strong distribution channels and is accredited with International Quality Certification.

Apollo Pharmacy offers genuine medicines round-the-clock through 24-hour outlets. In keeping with Apollo Hospitals’ focus on wellness, Apollo Pharmacy has now included several wellness products to its offerings. Services include home delivery of medicines.

Strict protocols dictate the functioning of the pharmacy – all unused drugs are taken off the shelves three months before expiration. It is worthy to note that Apollo Pharmacy focuses on wellness through health camps with formats that suit the target audience at various pharmacy neighbourhood outlets, at resident welfare associations, community places and corporate premises. The camps offer a range of free services to patrons in the locality which include Doctor Consultations, Diagnostics and Testing Services and Dental work.

Highlights of for the year 2022:

- Network of 5500+ stores pan India

The Grand Store Launch and Inauguration of 5000th store at OMR, Chennai by Dr Prathap C Reddy, Chairman, Apollo Hospitals Group

- Presence across 27 states, 1100+ cities and towns. Over 19000 pin codes serviced with omni channel capability of 247

- Over 1000 stores opened during the year 2022, opening ~3 stores every day

- More than 40,00,00,000 Indians have physical access to Apollo Pharmacy stores

- Served close to 25,00,00,000 transactions during 2022

- More than 2,00,00,000 home deliveries during 2022

- More than 35000 camps conducted at pharmacies and neighbourhood

- Building neighborhood relevant sub-categories - serving 50% of mother and baby needs in the cluster
750th Apollo Pharmacy store inauguration in Karnataka by Mr. Shrinath Joshi (IPS) and Padma Shri K. Y. Venkatesh (Indian para-athlete)
APOLLO
REMOTE HEALTHCARE
APOLLO REMOTE HEALTHCARE

Milestones Achieved in 2022
Corporate Projects
MoU sign between Apollo Hospitals Group and IIT Kanpur
Reaching beyond Boundaries
Increasing Affordability and Accessibility
Certification
Drone Delivering Healthcare Pilot in India
Connected Ambulance
Apollo Remote Healthcare began its journey over 22 years ago and has touched the lives of more than 17 million people. It provides healthcare both through physical and digital mediums.

Apollo Remote Healthcare is the largest telemedicine provider in the world by the virtue of the following achievements:

- Established more than 800 healthcare centres in Public-Private-Partnership (PPP) mode
- Apollo Remote Healthcare became the largest Public Private Partnership with more than 17 million teleconsultations delivered
- Set up 110 tele-clinics in franchisee mode
- Established 3,50,000 public touch points at Gram Panchayat Level through Digital India Initiative
- Achieved the rare distinction of delivering more than 20,000 clinical transactions daily across emergency, primary, secondary and other essential preventive health care services

Milestones Achieved in 2022

Augmentation of Public Healthcare Projects

Public Healthcare Projects were augmented within the states of Andhra Pradesh, Himachal Pradesh, Jharkhand, Uttar Pradesh and Meghalaya.

This included the enhancement of 3,50,000 Community Services Centres (CSCs) across these states.

The tech-enabled community health services include ANC/PNC care, NCD screening and medication with technology backed tracking for treatment adherence.

The following are the highlights of these tele-health projects:

- Provide tele-emergency services to a population of more than 40,000 in the state of Himachal Pradesh through its prominent tele-clinics situated at a height of 14,000 ft above sea level
- Upgrading existing 195 Urban PHCs to electronic Urban PHCs in Andhra Pradesh and providing quality healthcare services to urban poor living in slum areas
- State-of-the-art digital dispensaries across the states of Jharkhand, Meghalaya, Tripura and Uttar Pradesh
- Establishing a world class innovation center in Andhra Pradesh to render quality eye care services and dispensing over 2500 spectacles daily.

**Corporate Projects**

Multiple corporate projects to promote wellness were undertaken through services like- Doc-On-Call, Condition Management Programs, Covid Helpline, Emotional/Mental Health Counselling and CSR programs. These included over 100,000 teleconsultations.

**MoU signed between Apollo Hospitals Group and IIT Kanpur**

The Apollo Hospitals Group and the Indian Institute of Technology (IIT) Kanpur formally signed an MoU for collaborative projects. This convergence of healthcare and technology was aimed to further transform the practice and delivery of health care. The signing happened in the august presence of Chairman, Dr. Prathap C. Reddy.

**Telehealth Program in Tripura**

Nearly 10,000 people across Tripura have accessed top quality, technology enabled healthcare over the last 6 months, through the telehealth program initiated by the Tripura Tribal Areas Autonomous District Council. The telehealth services have been provided by the Apollo TeleHealth.

Apollo TeleHealth Services (ATHS) team has saved the lives of patients who have suffered heart attacks, respiratory distress and other serious conditions, while relying on the advice of emergency doctors enabled through advanced video conferencing system. The telehealth systems are fully equipped with advanced medical and ICT devices that can handle patients with minor trauma, strokes and even snake bites.
Increasing Affordability and Accessibility

Digital Dispensary Program, Nandapur Tribal Village, Koraput

Successfully launched Digital Dispensary Program at Nandapur tribal village, Koraput, in Odisha State. This is a move towards increasing affordability and accessibility in tribal healthcare.

Certification

The largest multi-specialty telemedicine network in the world, Apollo Remote Healthcare was granted the ISO 13131:2021 certification by the British Standards Institution (BSI). ISO 13131:2021 belongs to a class of standards that provides flexible, general guidelines that support innovation in healthcare. This certification recognizes the industry leadership of Apollo Remote Healthcare in developing & deploying user-friendly technological solutions and the high standards for medical services delivery.

Apollo Remote Healthcare is the "first ever" organization in the world to attain this certification.

Drone Delivering Healthcare Pilot in India

This program was initially piloted in Telangana and it was further propelled into Meghalaya and Arunachal Pradesh. Here individual pilots were successfully conducted. Remote locations requiring dispensing of medicines and many such healthcare services were reached through drones. Application of drones in healthcare is a unique approach enabling the reduction of the time required for making healthcare available to communities, serving emergency care to the ones in need in the event of disasters or accidents in lesser time and for managing resources appropriately.
An IoMT (Internet of Medical Things) enabled Connected Ambulance transforms access to healthcare and saves lives in emergency situations. The custom-designed state-of-the-art Connected Ambulance is equipped with the latest medical equipment, inhouse developed patient monitoring application integrated with telemetry devices that transmit the patient health data to the hospital in real-time. In addition, it is also equipped with an advanced audio- video solution with onboarded cameras to enable seamless video conferencing compatible with existing network. The solution is also capable to connect with ultra-fast and low latency 5G network. It would be further equipped with technologies like Augmented Reality / Virtual Reality (AR/VR).

Salient features of the Connected Ambulance include:

- Facilitate real-time information sharing to deliver seamless pre-hospital care
- Enable experts in Command Center to advise the team in real-time to handle emergencies
- Better prepare and plan for patient care on arrival
- Live feed from Ambulance onto TV screen at command center helps ER team to assist ambulance staff real-time to perform any minor procedures.
- Live GPS tracking of Ambulance

In partnership with Airtel 5G, a pilot study for Connected Ambulance was conducted at Apollo Hospitals. A tele-emergency case management was demonstrated while the Apollo Hospitals ambulance was transit to the hospitals. It used the 5G network for video conferencing and real-time vitals monitoring of patient in the ambulance for emergency doctors to analyze and prepare for treatment plan and guide the paramedics escorting the patient remotely.

Airtel partners with Apollo Hospitals to create 5G Connected Ambulance
APOLLO HOME CARE
APOLLO HOME CARE

Expanded Footprint
New Services Launched
Service Spectrum at Apollo HomeCare
The transforming healthcare scenario in India has led to the advent of homecare – healthcare services that conveniently come home for the comfort of patients and their families.

For Apollo HomeCare, the year 2022 has been a year of rapid expansion to 15 cities and this validates the pursuit for clinical excellence for this integrated care program.

**Expanded Footprint**

Apollo HomeCare expanded its footprint and is available in the following cities – Chennai, Hyderabad, Delhi, Bangalore, Kolkata, Mumbai, Indore, Lucknow, Vizag, Bhubaneshwar, Nellore, Guwahati Madurai, Mysore and Pune.

**Certification**

QAI (Quality and Accreditation Institute) Certification

QAI Centre for Accreditation of Health and Social Care (CAHSC) and home care standards are accredited by International Society for Quality in Health Care External Evaluation Association (ISQuaEEA).

Continuing the quest for highest standards of quality and excellence in homecare, the five units at Delhi, Hyderabad, Chennai, Bangalore and Kolkata were successfully accredited by QAI. This makes Apollo HomeCare, the first home healthcare organisation in India to be accredited at multiple locations.
New Services Launched

In-hospital attendant service

The in-hospital attendant services were launched to facilitate bedside assistance for patients admitted to hospital. This service was very well received by the patient families as they found it difficult to take time off from work. Apollo HomeCare has served over one lakh shifts in the year 2022 across all locations.

Integrated cardiac rehab program for open heart surgery

Apollo HomeCare initiated a dedicated cardiac rehab program called ‘Follow your Heart’ which is an integrated care continuum program further augmented through monitoring of vitals, physical and virtual consultations by doctors, nurses and physiotherapists under the supervision of primary cardiac surgeon.

More than 120 post cardiac surgery patients have been enrolled in this program so far. This program has turned out to be beneficial for all post-discharge patients by reducing unnecessary ER visits, improved pain management and reduced incidence of SSI rate. This is because the patients are not exposed to any other sick individuals and there is a proper adherence of aseptic measures by care providers. An improved ADL (Activities of Daily Living) was also observed in patients enrolled for this program.

TOC services – Transition of Care for Elderly – Integrated Care Program

This program was launched in collaboration with the Department of Geriatric Medicine at Apollo Hospitals, Bangalore for adults above the age of 60 years. The program aims to support and rehabilitate these patients through the team of physiotherapists, social workers, pharmacists and case managers all under the supervision of a Geriatrician.

Blood transfusion @HOME Services

Blood transfusion@home services aims to serve patients who are bed bound, undergoing oncology treatment and those with hematopoietic disorders. Over 100 transfusions were administered at home without any adverse event across the five metropolitan cities.

Nanny Care Services

With the rise of the nuclear family structure in the urban cities – the need for nannies for baby care is rapidly growing. The trained nannies from Apollo HomeCare become a part of the family.
Advanced Critical Care at Home

The advanced critical care set up at home comprises of ICU set-up with Ventilator, Hemodialyzer, X-ray machine, ABG and ECG machine at home. Round the clock doctor services along with nursing and physiotherapy were also incorporated.

Medical Procedures

Critical medical procedures like wound dressing and urinary catheterization can be performed in the comfort of home.

Investigations

Technicians conduct investigations and collect lab samples from patients at home.

Vaccinations

HomeCare specialists provide various immunization and comprehensive vaccination services at patient’s home.

Snapshot- Quality Indicators for HomeCare Services

<table>
<thead>
<tr>
<th>Clinical Excellence Indicators</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitalisation rate</td>
<td>1.02%</td>
<td></td>
</tr>
<tr>
<td>Patient Fall at home</td>
<td>0.02%</td>
<td></td>
</tr>
<tr>
<td>Mobility score &gt;5 (for cardiac surgery patients)</td>
<td>80%</td>
<td></td>
</tr>
<tr>
<td>Correct identification of patient, blood component and blood group (for blood transfusion at home)</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Incidence of anaphylaxis/ hypersensitivity (for blood transfusion at home)</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Transfusion-related minor reactions (for blood transfusion at home)</td>
<td>1%</td>
<td></td>
</tr>
</tbody>
</table>

Service Excellence Indicators

| Net Promoter Score | 79% |

Service Spectrum at Apollo HomeCare

Transactional Services

Visits

Home health care doctors, nurses and physiotherapists can be called home for specific one-time healthcare.
<table>
<thead>
<tr>
<th>2022</th>
<th>Clinical Excellence</th>
<th>IT</th>
<th>Apollo 2417</th>
<th>Apollo Pharmacy</th>
<th>Apollo Remote Health</th>
<th>Apollo HomeCare</th>
<th>Academics</th>
<th>Research</th>
<th>CSR</th>
<th>Recognition</th>
<th>Consultant's Achievements</th>
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ACADEMICS
## ACADEMICS

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<td>Apollo Clinical Knowledge Network (ACKN)</td>
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<td>Apollo Medical College and Teaching Hospital, Hyderabad</td>
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<td>Apollo Knowledge City Campus, Chittoor</td>
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<td>Apollo Education UK/Apollo Buckingham Health Sciences Campus (ABHSC), UK</td>
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<tr>
<td>Apollo Medskills</td>
<td>124</td>
</tr>
</tbody>
</table>
Institutes

The following institutions form a part of Apollo Knowledge:

1. Institute of Medical Sciences and Research (Hyderabad and Chittoor)
2. Hospital-Based Training Programmes (DnB)
3. The Apollo University
4. Apollo Education UK (AEUK) and Apollo Buckingham Health Sciences Campus UK
5. Apollo College of Nursing, Physiotherapy and Hospital Management
6. Apollo MedSkills
7. Medvarsity

Apollo Hospitals Group: A Centre of Excellence for Post-Graduate Medical Education

Apollo Hospitals association with the National Board of Examination (NBE), dates back to the year 1985 when only nine departments were recognized. In the present day this recognition has scaled up to 52 Specialties. Eighteen units of Apollo Hospitals have been recognised by NBE. Recognition has been granted for 16 Broad Specialities, 22 Super Specialities, 10 Postdoctoral Fellowships and 4 Diploma Programmes. Approximately 9000 students have cleared the DNB exams till date, at Apollo Hospitals.
Primary and Secondary DNB Programmes at Apollo Hospitals

1. Anaesthesiology
2. General Medicine
3. General Surgery
4. Nuclear Medicine
5. Immunohematology and Transfusion Medicine
6. Obstetrics and Gynaecology
7. Orthopedics
8. ENT
9. Pathology
10. Radio Diagnosis
11. Radiotherapy
12. Respiratory Diseases
13. Emergency Medicine
14. Family Medicine
15. Pediatrics
16. Microbiology

FNB Programmes at Apollo Hospitals

1. Minimal Access Surgery
2. Paediatric Haemato oncology
3. Infectious Diseases
4. Interventional Cardiology
5. Paediatric Gastroenterology
6. Liver Transplantation
7. Arthroplasty
8. Cross Sectional and Body Imaging Programme
9. Spine Surgery
10. Paediatric Urology

Courses (DNB/DrNB/FNB) approved by NBEMS in 2022-2023 in Apollo Hospitals:

**NBEMS Diploma Courses**

1. Diploma in Paediatrics
2. Diploma in Radio Diagnosis
3. Diploma in Anaesthesiology
4. Diploma in Tuberculosis and Chest Disease

Apollo Hospitals conducts the largest DNB/DrNB/FNB programmes of National Board of Examinations in Medical Sciences (NBEMS), in the country. As on 31st December 2022 the Group trained 1118 candidates in 18 Apollo Hospitals. Total number of DNB/DrNB/FNB seats available at Apollo Hospitals is 641.
### AHERF Fellowship Programs

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Eligibility</th>
<th>Duration</th>
<th>Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke</td>
<td>DM/DNB (Neurology) or DNB (Medicine) with experience in Neurology</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Hyperbaric Medicine</td>
<td>MD/DNB (Medicine)</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Liver Transplant Anaesthesia</td>
<td>MD/DNB (Anaesthesia)</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Clinical Apheresis</td>
<td>MD/DNB/MBBS with one year experience in Blood Bank</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Robotic Surgery</td>
<td>MS/DNB Surgery</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td>MD/DNB Nuclear Medicine</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Bone Marrow Transplant and Cellular Therapy</td>
<td>DM/DNB Paediatric Hematology Oncology and FNB/ Fellowship in Paediatric Hematology Oncology</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Onco pathology</td>
<td>MD/DNB</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Paediatric Cardiac Critical Care</td>
<td>MD/DNB (Paediatrics)</td>
<td>1 year</td>
<td>1</td>
</tr>
<tr>
<td>Liver Transplant and HPB Surgery</td>
<td>MCh (Gastroenterology)</td>
<td>2 year</td>
<td>2</td>
</tr>
</tbody>
</table>

### Apollo International Clinical Fellowship Program (ICFP)

The Apollo International Clinical Fellowship Program is a hybrid MCh/MMed program created by Apollo Health Sciences, UK in partnership with GTEC/WWL NHS Trust, UK and Edge Hill University, UK. The Apollo ICFP is carefully structured to ensure that doctors obtain the mentorship, world-class specialist training and hands-on experience in providing the highest standards of healthcare.

The following specialties were covered for the program in 2022:

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Anaesthesia</td>
<td>Hyderabad</td>
</tr>
<tr>
<td>2. Trauma and Ortho</td>
<td>Delhi</td>
</tr>
<tr>
<td>3. Rheumatology</td>
<td>Delhi</td>
</tr>
<tr>
<td>4. Anaesthesia</td>
<td>Delhi</td>
</tr>
<tr>
<td>5. General Medicine</td>
<td>Delhi</td>
</tr>
<tr>
<td>6. Trauma and Ortho</td>
<td>Mumbai</td>
</tr>
<tr>
<td>7. Trauma and Ortho</td>
<td>Chennai</td>
</tr>
<tr>
<td>8. Emergency and Trauma</td>
<td>Chennai</td>
</tr>
</tbody>
</table>
In the academic year, 2022 a total of 48 presentations were organised at 16 locations.

Following is the list of Clinical Presentations which were conducted in 2022 for ACKN

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<thead>
<tr>
<th>Apollo Hospitals Locations</th>
<th>Topics</th>
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<tr>
<td>Hyderabad</td>
<td>Saving limbs while retaining excellent function in bone tumours and sarcomas</td>
</tr>
<tr>
<td>Chennai</td>
<td>Recent advances in parkinson's disease and movement disorders</td>
</tr>
<tr>
<td>Delhi</td>
<td>The kaleidoscope that is sarcoidosis</td>
</tr>
<tr>
<td>Kolkata</td>
<td>Primary immunodeficiency diseases</td>
</tr>
<tr>
<td>Ahmedabad</td>
<td>Hypercalcemia</td>
</tr>
<tr>
<td>Bhubaneswar</td>
<td>WHO classification of lung tumors</td>
</tr>
<tr>
<td>Vizag</td>
<td>Sentinel lymph node biopsy-evolving indications and techniques</td>
</tr>
<tr>
<td>Bangalore</td>
<td>A case of pseudomyxoma peritonei due to appendicular carcinoma</td>
</tr>
<tr>
<td>Bilaspur</td>
<td>Medical oncology case discussion</td>
</tr>
<tr>
<td>Madurai</td>
<td>An interesting case discussion of fever</td>
</tr>
<tr>
<td>Mysore</td>
<td>Dermal substitutes for wound cover-the high-tech bridge between skin graft &amp; flap</td>
</tr>
<tr>
<td>Guwahati</td>
<td>A case of mesenteric ischaemia</td>
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<tr>
<td>Mumbai</td>
<td>A genetic disease in the family importance of genetic diagnosis, family screening and counselling</td>
</tr>
<tr>
<td>Delhi</td>
<td>Introduction to cell and gene therapy for a better future</td>
</tr>
<tr>
<td>Seshadripuram</td>
<td>Hyperlipidemic pancreatitis</td>
</tr>
<tr>
<td>Jayanagar</td>
<td>Customization of ligaments in ACL reconstruction</td>
</tr>
<tr>
<td>Hyderabad</td>
<td>Uniportal (Single) robotic surgery</td>
</tr>
<tr>
<td>Chennai</td>
<td>Resection of a recurrent giant chest wall chondrosarcoma with combined synthetic and autologous reconstruction</td>
</tr>
<tr>
<td>Delhi</td>
<td>Deep brain stimulation in parkinson's disease</td>
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<tr>
<td>Kolkata</td>
<td>Sleep medicine a primer and a case presentation on unmasking sleep apnoea</td>
</tr>
<tr>
<td>Bhubaneswar</td>
<td>A case of extensive bruising in a child</td>
</tr>
<tr>
<td>Ahmedabad</td>
<td>Approach to a case of unusual pancytopenia</td>
</tr>
<tr>
<td>Vizag</td>
<td>Interpreting lab investigations in immunology</td>
</tr>
<tr>
<td>Bangalore</td>
<td>Castleman's variant of POEMS syndrome</td>
</tr>
<tr>
<td>Bilaspur</td>
<td>Traumatic diaphragmatic hernia</td>
</tr>
<tr>
<td>Madurai</td>
<td>Keep an eye on the eye</td>
</tr>
<tr>
<td>Mysore</td>
<td>Race against time</td>
</tr>
<tr>
<td>Guwahati</td>
<td>Two cases with atypical presentation in critical care unit</td>
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<tr>
<td>Mumbai</td>
<td>Surgical management of early</td>
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<tr>
<td>Seshadripuram</td>
<td>Advanced ovarian cancers</td>
</tr>
<tr>
<td>Jayanagar</td>
<td>Old diseases and new solutions in pulmonology: next generation care in 2022</td>
</tr>
<tr>
<td>Lucknow</td>
<td>Endovascular treatment in wide neck intracranial aneurysms</td>
</tr>
<tr>
<td>Hyderabad</td>
<td>Ten mistakes to avoid in AV access surgery</td>
</tr>
</tbody>
</table>
In the academic year, 2022 a total of 48 presentations were organised at 16 locations.

Apollo Clinical Knowledge Network (ACKN) – II

ACKN creates an academic exchange not just for the medical teams but also for the Physiotherapy, Dietetics and the Nursing teams across Apollo Hospitals. Every Tuesday, the respective disciplines and teams across Apollo Hospitals collaborate for knowledge sharing.

Total number of ACKN-II presentations conducted in 2022 were 40.

Apollo Medical College and Teaching Hospital, Hyderabad

<table>
<thead>
<tr>
<th>Location</th>
<th>Presentations</th>
</tr>
</thead>
</table>
| Chennai      | 1: Directional deep brain stimulation with brain sensing for parkinson's disease  
               2: Recent advances in movement disorders                                     |
| Delhi        | Diagnostic genomics in clinical cardiology                                     |
| Kolkata      | Insect venom allergy                                                           |
| Bhubaneswar  | Congenital anomalies of coronary circulation                                    |
| Ahmedabad    | Definitive treatment with image guided radiotherapy in a patient with ectopic    
               kidney in left hemi pelvis for locally advanced carcinoma prostate - a rare case |
| Vizag        | Burns management                                                               |
| Mysore       | DIC in pregnancy                                                               |
| Bangalore    | Robotic surgery in gynaecologic oncology - boon for morbidly obese patients     |
| Madurai      | Interesting diseases of muscles                                                |
| Bilaspur     | Adult tetralogy                                                                |
| Guwahati     | 1: A case of unexplained renal failure                                          
               2: An atypical case of multiple myeloma presenting with RPRF               |
| Mumbai       | Bilateral synchronous renal cell carcinoma: therapeutic advancements            |
| Seshadripuram| An interesting case of isolated 3rd nerve palsy                                |
| Jayanagar    | Robotic knee replacement                                                        |
| Lucknow      | Rheumatological manifestations in hansen's disease                             |

The Apollo Institute of Medical Sciences and Research was launched in 2012 with a 100-student intake per batch and received permission to increase to 150 in Jan 2022. Currently, 830 MBBS students and 100 internees are studying at the institute. The institute offers post-graduate courses in 15 departments with a 50-student intake per batch. Clinical and para-clinical departments including 60 ICU beds are a part of the 660-bedded teaching hospital.

The Apollo College of Nursing has currently 700 students enrolled in B.Sc. (Nursing) and General Nursing and Midwifery (GNM) courses.

The Apollo College of Physiotherapy has currently 250 students enrolled.

The Apollo Institute of Hospital Management offers masters course with a 60-student intake in regular mode and 78 capacity in distance mode. A total of 210 students are currently enrolled for the program.
Apollo Knowledge City Campus, Chittoor

The Apollo Institute of Medical Sciences and Research started in 2016 with 150 students per batch. The institute has currently 750 MBBS students and 140 internees. The institute offers post-graduate courses in 15 departments with a 38-student intake per batch. Clinical departments are located at the Chittoor District Head Quarters Hospital and the para-clinical departments are located on the campus. The institute is supported by an 850-bedded teaching hospital through a unique public-private partnership (PPP) model with the State Government of Andhra Pradesh.

The Apollo College of Nursing has currently 400 B.Sc. (Nursing) students enrolled.

The Apollo College of Physiotherapy has a 50-student intake per batch

The colleges are affiliated to the ‘Kaloji Narayana Rao University of Health Sciences, Osmania University and Dr Ambedkar University

Apollo Education UK/Apollo Buckingham Health Sciences Campus (ABHSC), UK

This is a joint venture between Apollo Education UK (AEUK) and the University of Buckingham. Over 300 students are currently enrolled for MBBS and Bio Sciences courses. Courses on Podiatry and Nutritional Sciences were launched in 2022. The courses and training programmes are designed to support the NHS and address acute workforce shortages. Over 500 nurses received training for OSCE exams on campus.

The Apollo University (TAU)

The Apollo University aims to advance the frontiers of knowledge by investing in education, research, technology and community engagement. The Apollo University offers courses in medical sciences and cutting-edge technology and sets its curriculum in partnership with leading educational institutions worldwide.

The Apollo University offers both undergraduate and post graduate courses.
School of Engineering and Technology

The Apollo University recently established the School of Engineering and Technology, beginning with the 2022-2023 academic session. The school offers two departments, BTech (Computer Science and Engineering) and BTech (Artificial Intelligence and Data Science. With a total of 180 seats available for the first year, the school has also made significant investments in laboratory equipment and infrastructure. In line with its commitment to providing comprehensive education, the University has also partnered with renowned international institutions to offer a truly global learning experience for its engineering students.

School of Management

In 2022, the Apollo University established the School of Management, offering two MBA courses: MBA (General) and MBA (Hospital and Healthcare Management). Each course has an intake of 40 students. The University aims to promote hands-on learning by incorporating various methods of instruction, including course assignments, case studies, industrial internships, and live workshops. The school also has experienced faculty, including world-class instructors with a strong background in both industry and academia.

School of Allied Health Sciences

The School of Medical Sciences at the Apollo University was established in 2021. With the addition of labs for anatomy, biochemistry and philosophy, the school offers two post-graduate and eleven undergraduate specialisations in biomedical sciences. It has a total intake of 340 students.

Department of Social Work

The Apollo University established the Department of Social Work as part of the School of Social Sciences. This department offers two degrees: Bachelor of Social Work (BSW) and Master of Social Work (MSW), with 40 seats for each programme. The MSW degree offers four specialisations: Clinical Social Work, Social Development, Human Resource Management and Family and Child Welfare. This programme aims to prepare students for a career in various organisations such as corporations, government and non-government organisations, hospitals, research and advocacy organisations, funding agencies and CSR.

Medvarsity Online Limited

Medvarsity is Asia's largest healthcare ed-tech company offering online and blended learning programs (Fellowship, Post-Graduate Programs and Certificate Courses) for healthcare professionals. In the last five years, Medvarsity has positively impacted the careers of over 5,00,000 healthcare professionals across 192 countries.

With offices in Dubai, Hyderabad and Bangladesh, Medvarsity is a team of 300 high-energy professionals of which more than 120 team members. Medvarsity caters to the requirements of both clinical and non-clinical healthcare professionals.
Initiatives, partnerships, and impact created by Medvarsity in 2022

1. Medvarsity has trained and certified 36,000+ medical practitioners and launched 12 new clinical courses in 2022. Medvarsity saw an increase of 200% in Healthcare Professional (HCP) engagements year on year.

2. Case-based Collaborating Learning (CBCL) was launched for Medvarsity courses. Medvarsity is the only medical learning platform to impart medical learning through a case-based approach.

3. Medvarsity crossed the milestone of 3.5 million monthly average brand interactions across medvarsity.com, medvarsity.ae, assimilate.one, dosily.com and healthjobs.one.

4. Medvarsity launched its office in Dubai. www.medvarsity.ae attracted 40,000 visitors from 7 Middle East countries. United Arab Emirates, Kingdom of Saudi Arabia, Qatar, Bahrain, Oman, Kuwait and Egypt.

5. Over 4200 Health Care Professionals from the Middle East attended 20 CME case-based online discussions accredited by Dubai Health Authority (DHA). In the year 2022 DHA accredited 36 Medvarsity courses for the region.

6. www.assimilate.one by Medvarsity launched and organized 300 live webinars and case discussions that were attended by 24,000 healthcare professionals. Industry experts and key opinion leaders from over 20 medical specialties interacted with the audience.

7. Clinical and academic partnerships/associations were created with 123 Sonography, Dubai Health Authority, Apollo Fertility, Clove Dental, AMIQT, JCI, Indian Society of Echocardiology, India IVF, K D Hospitals, Prakriya Hospitals.

8. Approval from the Royal College of General Practitioners was obtained for Fellowship in Emergency Medicine.


10. HealthJobs.One, a Medvarsity initiative and India's first-ever job, career and community platform dedicated to healthcare professionals, and the healthcare industry attracted 2.05 million Health Care Professionals to the platform.

11. Interview Readiness Certificate Program for nurses was launched on thankanurse.in. Within 3 months of the launch, over 800 nurses were able to complete this free course.

Medvarsity courses launched in 2022

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<th>Fellowship Courses</th>
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<tr>
<th>Masterclass Certificate Courses - For Middle East on <a href="http://www.medvarsity.ae">www.medvarsity.ae</a></th>
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<tbody>
<tr>
<td>Masterclass in Clinical Cardiology</td>
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<tr>
<td>Masterclass in Critical Care Medicine</td>
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<tr>
<td>Masterclass in Diabetes Mellitus</td>
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<tr>
<td>Masterclass in Gynecology and Obstetrics</td>
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<table>
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<tr>
<th>Certificate Courses – For Middle East on <a href="http://www.medvarsity.ae">www.medvarsity.ae</a></th>
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<tr>
<td>Certificate in Essentials of Infertility Evaluation</td>
</tr>
<tr>
<td>Certificate in Complications of Diabetes Mellitus</td>
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<tr>
<td>Certificate in Diabetic Foot Care</td>
</tr>
<tr>
<td>Certificate in Infection Prevention and Control for Nurses</td>
</tr>
<tr>
<td>Certificate in Healthcare-associated Infections</td>
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<tr>
<td>Certificate in IVF Essentials</td>
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Apollo Medskills

Healthcare is one of India's largest sectors, both in terms of revenue and employment. Currently the healthcare sector is in direct need of about 1.7 million skilled professionals so as to equalize the supply and demand chain. To reduce this skill gap, National Skill Development Corporation (NSDC), Government of India, has formed a partnership with Apollo Hospitals Group to promote healthcare skilling through Apollo MedSkills. By conducting skilling courses that are prevalent in the country, Apollo MedSkills aims to provide the competent workforce for the global healthcare industry.

Milestones

- Over 2.6 lakh students trained as healthcare workforce
- Teaching in 21 active centres
- Operations footprint across the length and breadth of India
- Project implementing partner for various initiatives
- Skilling the unemployed and school dropout youth for lifelong employability
- Up-skilling the nurses to achieve improved patient care
- Executive programs in hospital and healthcare management are conducted to meet the demand due to the rise in healthcare facilities

Advances in medicine and new technologies have mandated the healthcare industry and the workforce to quickly adapt and meet the evolving needs.

Apollo Medskills was engaged by various government agencies such as health ministries, state governments, corporates and academic institutions as their healthcare project implementing partner. Through this association, Medskills facilitated the continuous mobility of skilled and industry relevant resources.

Creating Management Professionals for Healthcare

Apollo Medskills provides upskilling and management-oriented programs as per industry needs and standards. The programs are run in collaboration with India's top-ranked universities–University of Hyderabad, JAIN University and ICFAI are available for graduates, doctors, critical care nurses through Executive Education Programs and Advanced Certificate Programs. Those who pursue and complete these programs obtain credit points that are useful for lateral entry for higher studies in universities across the globe. Two batches of around 100 students have successfully completed their programs.

CSR Partnerships

There was a purposeful effort to accelerate healthcare services delivery by corporates from diverse sectors. The following corporates engaged with Apollo Medskills as their healthcare partner to enable and channel their philanthropic and CSR initiatives in healthcare:

- Indian Oil Corporation Limited (IOCL)
- BMW
• NSDC – Ingersoll Rand
• BOSCH
• RPG Foundation
• Google
• Siemens

Over 23,500, aspiring youth and women across India coming from diverse financial, economic, geographical, academic and social backgrounds were included in the ongoing healthcare training programs under their CSR initiatives. More than 50% of the target beneficiaries have completed training and working in the COVID wards, hospitals, emergency wards, clinics, diagnostic centers, as geriatric aides, home health aides and general duty assistants.

• Siemens Healthineers:

Siemens Healthineers is a leading medical technology company for transforming care delivery, and improving patient experience. Apollo MedSkills approached Siemens Healthineers for a CSR funding to train 250 youths in EMT and GDA in the locations of Hyderabad, Chittoor and Ranchi.

• Indian Oil Corporation Limited (IOCL):

Indian Oil Corporation Limited (IOCL), as a part of its CSR activity allocated the skill development project to Apollo MedSkills, through Telangana Academy for Skill and Knowledge (TASK).

The CSR project was granted to Apollo MedSkills for conducting training program on “General Duty Assistant” (GDA) for 60 unemployed youth/school drop-outs from the villages along IOCL’s Paradip Hyderabad Pipeline (PHPL) Right-of-Use (RoU) in Nalgonda and Yadadri- Bhongir districts of Telangana.

• Delhi Skill an Entrepreneurship University (DSEU):

Apollo Medskills executed the project from DSEU for the courses- BSc. (Emergency Medical Technology), BSc. (Dialysis Technology). The academic curriculum for these courses has been developed in accordance with the DSEU and UGC Guidelines and validated by the Curriculum Advisory Group comprising of eminent doctors and academicians.
Google

Apollo Medskills undertook a project for Google to train COVID Response Healthcare Workforce in India with a project lifetime of 60 days and a training target of 20000 youths. Apollo MedSkills successfully completed this training and placement for the youths.

The main goal of the project was to ensure adequate supply of manpower for rural India to face the pandemic efficiently.

The engagement of resources is measured through their daily attendance tracking.

The impact outcomes are:

1. Improving knowledge outcomes- assessed through success rate percentages
2. Women empowerment – by ensuring enrolment of over 50% women into the program
3. Livelihood outcomes- by ensuring continuity in jobs through up skilling, creating employment in new job roles
4. Health outcomes- With access to healthcare resources the improvement in health outcomes can be measured over a period of time.
RESEARCH
# RESEARCH

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Apollo Research and Innovations (ARI)

Apollo Research and Innovations (ARI), focuses on scouting, evaluating, deploying and integrating innovations across Apollo Hospitals, with an objective of improving outcomes, affordability and accessibility for our patients. Innovations span across drugs, devices, healthcare software or consumer goods of clinical relevance.

ARI believes in driving clinical excellence and patient benefit by incubating innovative enterprises and encouraging research and innovation within the Apollo ecosystem. ARI aims to foster innovation in technology, therapy, processes and business models to achieve greater access, affordable costs and global quality standards.

ARI Vision

“Enable a Research and Innovations led Apollo Hospitals, which consistently rides the cutting edge in Technology, Therapy and Delivery for improved patient outcomes, affordability and reach”

A. Clinical Research-Overview

A 1. Institutional Ethics Committee

- The Institutional Ethics Committee – Clinical Studies [IEC-CS] and Institutional Ethics Committee –Bio Medical Research [IEC-BMR] at the ten Apollo Hospitals Locations (Ahmedabad, Hyderabad, Chennai, Madurai, New Delhi, Bhubaneshwar, Bangalore, Mysore, Vizag and Navi Mumbai) are registered with the licensing authorities and seven of them have NABH accreditation.

- Institutional Committee for Stem Cell Research (ICSCR) has been centrally constituted at Indraprastha Apollo Hospitals, Delhi, for Apollo Hospital centers with pan India a focus to review and approve the stem cell research proposals as per DBT-ICMR guidelines.

A 2. Experiences in Clinical Trials

ARI has vast experience in ethical conduct of clinical trials, clinical research studies, registries and data collection studies, validation studies, investigator initiated research studies, non-clinical studies, basic research studies and
translational research studies. ARI has the experience of conducting over 1300 clinical studies across 22 locations pan India with trials in cardiology, Oncology, Diabetology, Neurology, Orthopedics, Nephrology, and other therapeutic disciplines. The studies consist of 6% Phase II, 66% Phase III, 20% phase IV and the rest 8% are registries/data collection studies.

More than 48 studies were completed in 2022 and currently 150 clinical trials are ongoing.

A3. Device Studies

Over the years, ARI has established expertise in designing and conducting clinical validation studies for new and innovative devices.

Some examples of the studies completed successfully are as follows:

- **Dozee Study** - ARI conducted a validation study for a Hyderabad based start-up Dozee and the focus of the study was to validate the performance of a “continuous vital signs monitoring system” in comparison with a predicate device and standard monitor being used in the hospital.

- **DigiT Study** - ARI worked with a Hyderabad based company Pratibha Healthkon Private Limited that build patient-centric solutions to provide care delivery at the point of care. The objective of the study was to validate the remote patient monitoring device against standard of care monitors (ECG, BP, SpO2 and temperature) used in the hospital.

New projects under way:

- **GI Dynamics** - A multi-center open label randomized controlled study to evaluate the efficacy and safety of Gi Dynamic’s EndoBarrier System plus moderate intensity lifestyle, dietary counselling with standard practice medication management in patients with baseline HbA1c equal or above 8%.

- **HemoDx** – This study aims to determine whether dried saliva collected at home or within healthcare settings using HemoDx collection device and kit can be used as alternate collection method to nasopharyngeal/oropharyngeal swabs for detecting active SARS-CoV-2 infections.

- **CAR-T Cell Study** – This is a phase 2 study to determine the safety and efficacy of IMN-003A cell therapy in patients with relapsed and refractory CD19 positive B cell malignancies.

A.4 ICMR Projects

A.4.1 Anti-Microbial Stewardship Program

To address the increasing burden of multidrug resistant infections, AMSP are promoted worldwide to rationalize prescription of antibiotics and preserve remaining antibiotics. ARI coordinates and facilitates the conduct of AMSP by providing the entire data collection and documentation; training programs, conduct of workshops, logistics support to the Principal Investigator.

A few AMSP projects supported by ARI are:

- **Capacity Building** - A collaborative AMSP project by CDC Atlanta and ICMR to assess and strengthen both clinical and antimicrobial use and infection control and practices for containment of AMR pathogens.

- **AMR Surveillance** – The project was initiated to understand the epidemiology of resistance and ways to overcome it. The project aimed at assessing targeted hospital and community-based surveillance studies to provide
nationwide resistance data to monitor trends in AMR and develop appropriate control measures. The project outcome was integrated into AMSP expansion.

- **Antimicrobial Stewardship Program (AMSP) and Implementation** – The project focus is on evaluation of the process and outcome measures related to AMSP in 20 tertiary care hospitals as part of ICMR AMR network. The study will ensure accurate and consistent data collection of antibiotics utilization to help in optimizing antimicrobial selection and reduce adverse drug events in respective hospitals.

- **AMSP Project supported by Pfizer** – The project aims to train the medical college students on AMSP through video sessions by Infectious Disease consultants, Critical Care Specialists, Microbiologists and other AMSP leaders with a pre and post assessment questionnaire for evaluation.

- **Strengthening Hospital Infection Control to detect and prevent AMR in India with support by CDC-ICMR/AIIMS** – The scope of the project is to strengthen the main regional centers of the country for implementing uniform detection, reporting and infection prevention guidelines for HAIs and AMR.

A.4.2 CURE Diabetes Project sponsored by ICMR

ICMR approval obtained for a Phase I research project on ‘Human Pancreatic Islet Transplantation’. The project focus is to standardize the process that involves the digestion and standardization of enzymes and extract islet cells from cadaver pancreas. The basic process starts when the donated organ is received and assessed by an isolation team and ends with the release of the isolated islets for transplantation.

This project is aimed to bring ‘Pancreatic Islet Transplantation’ as a useful treatment option for patients with “brittle T1DM” and chronic pancreatitis by allo and auto transplantation.

A.4.3 Rare Disease Registry

ICMR Registry for Rare and Other Inherited Disorders – The objective of the Phase I of the registry is to establish an Indian registry for rare genetic disorders, assess the burden and integrate care through the available new and existing public health programs and policies. The objective of the second phase is to collect the demographic and phenotypic data for selected genetic disorders which will help to learn the natural history, evolution and outcomes of specific diseases with/without treatment.

A.4.4 WHO ICMR Sponsored Genomic Profiling of Polio Virus

WHO-ICMR sponsored study on polio and non-polio enterovirus infections in patients with Primary Immunodeficiency Disorders (PIDs) at multiple medical institutes across India-Phase II. The objective of the project is to screen patients with primary immunodeficiency in India for poliovirus and non-polio enterovirus excretion and identify any long term excretors amongst them.

A.4.5 Integration of Alternative and Modern Medicine: Tautopathy

TAUTOPATHY - A Phase II study to assess safety and efficacy of using potentised form of chemotherapy is sponsored by AYUSH. Tautopathy is the term, used to denote the application of a drug prepared in homeopathic potency for the same condition which is caused by the crude version of the identical drug.

A.5 ARI Facilitated Studies

A.5.1 Apollo Abbott Cardiac Registry

The objective of the registry is to evaluate risk factor for CAD in patients undergoing health check with high sensitivity Troponin I as predictive marker. The
study was initiated in six of the Apollo Hospitals.

A.5.2 HayStack Analysis Study

ARI is coordinating for a study by Hay Stack Analytics, a Mumbai based start-up to evaluate the ONT (Oxford Nanopore Technology) based detection of pathogens and Antibiotic Resistant Genes [ARGs] from blood stream infections [BSI].

A.6 Collaborations

Collaboration with DBT-INSACOG

Seven of the Apollo Hospitals locations are part of the national research program – "A Prospective Cohort Study to Evaluate the Severity and Outcomes of SARS-CoV-2 infection and Correlation of Clinical Outcomes with Virus Variants". The study is funded by the Department of Biotechnology (Government of India), and is being conducted as collaboration between Indian SARS-CoV-2 Genomics Consortium (INSACOG) and the sequencing centers associated with them, Translational Health Sciences and Technical Institute (THSTI) and 14-16 hospitals spread across India.

Collaboration with Novartis

ARI signed a Preferred Site Partnership Agreement with Novartis Healthcare on Preferred Site Engagement Model [PSEM] - a global initiative within Novartis which involves partnering with select institutions. This PSEM initiative aims to enable a strategic partnership with their key clinical trial sites and focus on streamlining operational efficiency with these key sites.

Collaboration with Sanofi

Sanofi jointly conducts a list of GCP workshops and other programs such as pharmacovigilance, medical writing, monitoring, audits, inspection, regulatory updates and NDCT rules in association with ARI.

Collaboration with Pfizer

ARI had preliminary discussions with Pfizer India to explore joint collaborative research projects with Apollo Hospitals. The scope of the MoU will be focused on conduct of Real-World Evidence (RWE) studies which will strengthen the data generation and thereby improving patient outcome.

B. Clinical Research Training – Overview

The broad objective of this initiative is to train and equip young professionals with the critical skills needed to develop, promote and practice scientifically and ethically valid clinical research. The training also collaborates with industry leaders to impart knowledge on most recent methods of research. The one-year regular full-time course, “Advanced Post Graduate Diploma in Clinical Research (APGDCR)” program with six months of theory and six months of internship gives hands-on experience to aid the clinical research aspirants to meet the industry needs.

ARI has also developed and introduced a portfolio of online clinical research courses. Over 140+ students from across the country have benefitted from these courses.

The six executive programmes are for three months' duration each for basic introduction to Clinical Research (EPCR), Clinical Data Management (EPCDM), Pharmacovigilance (EPPVG), Medical Writing (MW), Clinical Research Internship (EPCRI) and Clinical Research Project (EPCR).
Combination Programs
The six executive programmes are designed in a manner so as to build on the expertise by choosing one or more areas of interest.

The conference had over 800 virtual delegates from more than 50 organizations. More than 30 eminent speakers joined to discuss and share their experiences, raise pertinent questions and address key issues in research activities essential for enhancement of healthcare and well-being of the community.

C. New Initiatives
C.1 Apollo Clinical Research Conclave 2022
ARI organized a two-day virtual conference titled “Apollo Clinical Research Conclave”. This first of its kind conclave saw the coming together of stakeholders from across the research community – students, academia, researchers, regulators, pharma, SMOs, CROs, hospitals and research coordinators – onto one common platform.
C.2 International Clinical Trial Day
ARI celebrated the International Clinical Trials Day based on the theme ‘Patient Recruitment and Retention’. This was the first time a pan India virtual celebration was organized. The programme witnessed cultural performances, testimonials from clinical trial participants, live talks from sponsors, testimonials from clinical research students. The programme was attended by 120 participants including staff, students, doctors and external stakeholders.

C.3 CII Innoverge 2022
Confederation of Indian Industry (CII) organized the "CII Innoverge 2022" with the theme "Engineering Imagination". ARI worked with Yi (Young Indians) to organize CII-Apollo Innovation Showcase. The panel was planned by ARI in a way to have a good mix of technical experts, start-up and incubator representation.

C.4 Industry Connect Sessions through Interactive Webinars
ARI conducted a total of eleven webinars in 2022 with over 1000 national and international attendees. Industry stalwarts and experts from the pharmaceutical companies, clinical research organizations, regulatory bodies, principal investigators and consultants graced the sessions to share their vast knowledge, promote industry connect and create awareness of clinical research.
C.5 Continuous Quality Improvement Program (CQIP) – Training

Continuous Quality Improvement Program (CQIP) is a part of organization’s standard operating procedure. These are activities planned throughout the year to focus on the quality conduct of research. The evaluations are based on the national and international rules and regulations which govern research. Speakers of repute from inside or outside the organization are invited to deliver lectures, panel discussions and case discussions. The monitoring of the ongoing studies and processes is also a part of CQIP. The following are the training activities conducted virtually in 2022:

1. Serious Adverse Events (SAE) – An overview
2. Medical Devices Rules 2017
3. SAE - Causality and Compensation (panel discussion)
4. Bio ethics in Clinical Research

C.6 Clinical Immersion Programs

C.6.1 Atal Incubation Centre - Centre for Cellular and Molecular Biology which is one of the SPARSH centers of BIRAC along with ARI Hyderabad organized two clinical immersion programs in the areas of Orthopedic, Ophthalmology, Pulmonology, Oncology, Neurology, Nephrology, Gynecology, Urology, Robotic Surgery and Neonatology.

C.6.2 Medtronics – ARI Hyderabad organized a two-day immersion program for members from Medtronics. Organized in five groups, the team members worked on two broad topics - smartphone based device to measure the volume of the wound for neuropathic ulcer and mobile based solution / thermo graphic device to measure the temperature of the foot.

D. Start-up Collaborations

ARI has collaborated with the below start-ups to bring out the best technologies for validation, clinical application and commercialization. ARI also participated in T-hub demo days, worked with CCMB- Atal Incubator Center and are currently exploring new domestic and international start-ups to bring latest technologies to the hospital.

• **EU India Innocentre – Internationalisation Crash Course** - The EU-India Innovation Centre prepares European start-ups and entrepreneurs to launch and expand their activities in India.

• **German Accelerator Demo Day – Cohort Selection Panel** - The German Accelerator organised a Demo Day to select its next set of Healthtech and Lifesciences start-up cohort. ARI was invited to be part of the selection panel.

• **German Accelerator – Explore and Validate Program – MENTOR** - The German Accelerator runs the “Explore and Validate Program” to support European health-tech start-ups to validate the suitability of their business in India – explore the Indian market, localize offering for market fit,
validate product with potential customer and identify suitable partners.

- Crely Inc - Crely Inc., a USA based digital health platform for Osteoarthritis, that uses digital biomarkers and artificial intelligence (AI) algorithms to improve patient outcomes and minimize post-acute care (PAC) cost. Crely is developing a medical device enabled SaaS platform that aims to detect surgical site infection after surgery and provide actionable intelligence to the clinicians.

Apollo Hospital Education and Research Foundation (AHERF)

The Apollo Hospitals Educational and Research Foundation (AHERF) is an autonomous organization spearheading research for the Apollo Hospitals Group. AHERF is a Department of Scientific and Industrial Research (DSIR)-recognized organization guided by a scientific advisory council.

AHERF is focused on leading translational and clinical research as a part of its agenda through its well-established, state-of-the-art Cell and Molecular Biology Research Center (CMBRC) at Hyderabad. CMBRC enables basic and translational research projects in cutting-edge areas such as liquid biopsy, molecular diagnostics, cell-free therapeutics and drug delivery at Chennai, Hyderabad and Delhi.

AHERF is also committed to higher education research and promotes doctoral studies for its employees through government fellowships, including the Prime Minister’s Fellowship Scheme. AHERF offers extended and short-term training in cell and molecular biology, including dissertations and thesis, for undergraduate and postgraduate students. Also, AHERF incubates startups in its research facility and promotes innovation and entrepreneurship. AHERF works on various cutting-edge research projects using exosome technology as a base platform. The projects focus on diagnostics, drug delivery and therapeutic applications.

A. Research Agenda Overview:

AHERF’s vision is to create a globally recognised entity for translational research, covering activities from biomarker discovery and diagnostic development to drug discovery, therapy development, as well as significantly contributing to strengthening the country’s research base. AHERF research teams are currently involved in research in the following therapeutic areas:

- Development of Circulatory Biomarkers
- Establishment of Drug Delivery Systems
- Development of Cell-free Therapeutics
- Personalised Medicine

B. Research Projects at AHERF:

The following are the ongoing research projects at AHERF

<table>
<thead>
<tr>
<th>S.No</th>
<th>Category</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Diagnostics</td>
<td>Development of companion diagnostic for Mitramycin in high grade glioma</td>
</tr>
<tr>
<td>2</td>
<td>Diagnostics</td>
<td>Development of early diagnostics for prostate cancer</td>
</tr>
<tr>
<td>3</td>
<td>Drug delivery</td>
<td>Development of EV Cytarabine from milk EVs</td>
</tr>
<tr>
<td>4</td>
<td>Drug delivery</td>
<td>Development of tomato derived EV Vitamin D formulation</td>
</tr>
<tr>
<td>5</td>
<td>Drug delivery</td>
<td>Development of EV- Mitramycin formulation using milk EV</td>
</tr>
<tr>
<td>6</td>
<td>Therapeutic</td>
<td>Mesenchymal Stem Cell based therapeutics for immunological disorders</td>
</tr>
</tbody>
</table>

C. Retrospective Studies:

AHERF has analysed COVID-19 data from the Apollo Hospitals cohort and established biomarkers, clinical indices, and co-variables capable of predicting COVID-19 severity.
Ongoing COVID-19 studies:

- Clinical and biochemical characteristics of vaccinated and vaccine-naive SARS-CoV hospitalised patients were compared in this prospective study.
- Clinical differences between COVAX in and Covid-shield vaccination in SARS-CoV infected COVID-19 breakthrough patients
- Clinical characteristics and genomic differences of SARS-CoV infected COVID-19 breakthrough patients

D. Doctoral Studies – AHERF

AHERF has entered into a collaboration with IIT-Hyderabad and is promoting higher education for its employees to achieve excellence in research output. The postgraduate studies are developing diagnostic panels for detecting early graft rejection, and research is being conducted on developing nano formulations of mithramycin for combating high-grade gliomas and refractory cancers.

E. Faculty Development Program (FDP)

Apollo Hospitals clinicians have been integrated into the research stream through the faculty development program. This program provides seed funding to Apollo researchers to create a proof-of-concept based on their research ideas. Many FDP projects have been completed which resulted in publication or as a base for further research.

F. Training Programs

AHERF offers a wide range of training programs in all areas of circulatory biomarkers, personalized medicine, and drug delivery research. AHERF offers short- and long-term research training programs and invites candidates pursuing a life science degree.

G. Grants

- Successfully secured a grant from Department of Biotechnology (DBT) in collaboration with Apollo Medical College to identify pharmacogenomics determinants causing toxicity in pediatric leukaemia.
- Successfully secured a grant from Novartis for the development of urinary EV diagnostics.
- Prime Minister Research Fellowship was granted to two research scholars working on projects at CMBRC.
- ICMR Women Scientist Fellowship was obtained for the development of a synaptic panel for the detection of neuro-degenerative diseases

H. Collaborations/MOUs

AHERF collaborates with national and foreign institutions to promote research and excellence. It has entered into collaborative agreements with research institutes, companies, and other research capabilities.

- Collaboration with IIT Kanpur: A Memorandum of Understanding was signed between AHERF and IIT Kanpur. This MoU is formulated for the purpose of promoting mutual understanding and possible academic, research and innovation exchanges in various areas.
- Collaboration with CSIR-IGIB: A Memorandum of Understanding between AHERF and CSIR-IGIB is in process to implement collaborative activities, which would address multi-disciplinary scientific, technological and educational problems to advance cancer research.
- Collaboration with Amity University India: AHERF signed an agreement with Amity University, Uttar Pradesh and SRM University, Andhra
Pradesh to conduct a joint collaborative research study on "Intelligent Decision Support System for Cardiovascular Disease Detection using ECG Traces at Tertiary Care Centers and Extended Community". The project is funded by the ICMR and is ongoing at Apollo Hospitals at Chennai and New Delhi.

I. Academic Collaborations

- **Delhi Pharmaceutical Sciences and Research University**: A joint clinical research course is planned with Delhi Pharmaceutical Sciences and Research University and AHERF. An MoU was signed, and as per the plan, a one-year cooperative program in clinical research was initiated at AHERF, Delhi.

J. Incubation activities at AHERF

AHERF's 4000-square-foot research lab is a one-stop incubation solution for many life science start-ups.

- **Sapiens Life Sciences** is a start-up seeded at AHERF and has been working independently for the last six years to develop biobanks for research purposes. Sapiens is the largest biorepository in India, with over 200,000 tissues stored with stratified clinical data.

- **Urvogelbio Private Ltd.** is a biotechnology start-up incubated at AHERF. The start-up is developing non-invasive brain pathology diagnostics for diagnosis, prognosis and therapy monitoring of CNS diseases, including Alzheimer’s disease and other neuro-degenerative diseases.

- **Sephirah Innovations** is a biotechnology start-up company incubated at AHERF Hyderabad and ARI. This start-up raised seed funding of Rs. 5 lakhs from AHERF for establishing proof of the principle of HPV-positive cancer detection from saliva.

- **Exomed therapeutics** - This start-up raised seed funding of Rs. 25 Lakhs from AHERF for establishing a proof of concept for delivering insulin through the oral route.

K. Faculty Development Projects

This program proposes to establish a pilot program for developing a research culture at Apollo Hospitals and aims to encourage junior/middle level consultants to generate investigator driven pilot proposals.

- Natural drug delivery system using milk exosomes
- Diabetic nephropathy detection panel through urinary exosome
- Effect of intra dialytic exercises on maximal oxygen consumption and quality of life
- Predicting metastatic potential of breast cancer using vascular, functional and metabolic parameters obtained with simultaneous PET/MRI: A retrospective study
- Local antibiotic delivery method using Vit-D3
- Qualitative and quantitative evaluation of morpho-metabolic changes in bone cartilage
- TGF-beta 1 as a diagnostic predictor in lung fibrosis
- Efficacy of nor-epinephrine versus epinephrine in pediatric septic shock
- Proposal for a pilot study of Vitamin C in Sepsis-the Indian LOVIT (Lessening Organ Dysfunction/Injury with Vitamin C) trial
- Two tier vascular access surveillance system
- Compare detection of HPV-16 biomarkers in serum and saliva samples with tumor P-16 in oropharyngeal squamous cell cancer
• Multi-centric un-blinded pilot project to assess the therapeutic in phase I and efficacy of local antibiotic delivery method using Vitamin D3 granules impregnated with Tobramycin and Vancomycin in treating necrotizing infections as an adjunct / complete treatment

• Necrotising Fasciitis

• Immunogenetic Study -Descriptive, cross-sectional non-interventional study on “Clinical phenotype of Rheumatoid Arthritis/ Spondyloarthritis patients and their association with immunogenetics and MHC”

L. New Collaborations

L.1 Oberon Sciences, Israel – A new AI-based application developed by Oberon Sciences promises to improve drug compliance and prevent treatment failure in chronic diseases. The Oberon digital pill—a combination of a personalized second-generation AI system and a branded or generic drug—improves the patient’s response to medications by boosting adherence and reversing the loss of response to chronic medications.

L.2 Partnership with GlobeStar Therapeutics aims to develop novel drug for multiple sclerosis. The goal is to work collectively for clinical trials in India.

Apollo Medicine

Apollo Medicine, the official journal of Apollo Hospitals Group, is a peer-reviewed and indexed journal published by Wolters Kluwer in both print and electronic formats. Apollo Medicine (ISSN No 0976-0016) was conceptualized with the idea of providing a platform for researchers as well as clinicians.

The journal is published quarterly in the months of March, June, September and December.

The distribution includes the following:

• Medical Heads and Consultants of Apollo Hospitals

• Medical colleges, both government and private, across the country

• Joint Directors and Secretaries in the Ministry of Health and Family Welfare, Government of India

• National Medical Commission/ ICMR/ Medical Council/ Nursing Council/ Dental Council

• National libraries across the country

• Various subscribers around the world

Current and all previous issues of the journal can be accessed at www.apollomedicine.org Seventy-seven issues (both print and online both) have been published so far including three supplement online issues.

The Journal accepts the following categories of manuscripts:

• Editorial

• Original Article

• Review Article

• Case Report

• Clinical Image

• Letter to the Editor

Apollo Medicine has shown an upward trend in:

• Page views which have increased from 4,05,275 in 2021 to 7,93,053 in 2022

• Article downloads have increased from 1,06,777 in 2021 to 1,96,615 in 2022
The Journal is registered with the following abstracting partners:

- Baidu Scholar
- CNKI (China National Knowledge Infrastructure)
- EBSCO Publishing’s Electronic Databases
- Exlibris – Primo Central
- Google Scholar
- Hinari
- Infotrieve
- ProQuest
- TdNet
- Wanfang Data

Apollo Medicine was successfully indexed with the Directory of Open Access Journals (DOAJ).

Most interesting articles are posted on social media platforms such as Facebook, Twitter and LinkedIn.

The Editorial Board consists of 54 members. The female membership has increased to 26% and overseas membership is around 20%.

Publication trends in Apollo Medicine showing an increasing number of publications by non-Apollo authors

The yearly submission to Apollo Medicine have doubled in the last 5 years

Increasing number of submissions for publication in Apollo Medicine over the last five years
Only the best-quality research papers that are likely to have a high impact and are of clinical value are published. The current rate of acceptance is 35%.

The proportion of original research articles has significantly increased in the recent past. The Editorial Board of Apollo Medicine duly recognises the contribution of esteemed 185+ reviewers for their valuable support.

Adjunct titles for Clinical Tutorship, Distinguished Clinical Tutorship and Emeritus Clinical Tutorship of Apollo Hospitals Educational and Research Foundation (AHERF)

Policy of grant of Clinical Tutorship, Distinguished Clinical Tutorship and Emeritus Clinical Tutorship of AHERF was implemented in the year 2017 in order to boost the state of clinical training across Apollo Group.

Senior faculty members from Apollo Hospitals Group, who have an active interest in clinical training are nominated for an adjunct title post.

47 consultants have been conferred with Adjunct title of “Clinical Tutor”, 119 consultants with Adjunct title of “Distinguished Clinical Tutor” and 04 consultants with “Emeritus Clinical Tutor” across the Group.

Apollo Excellence Report – 2022, carries the names of only those consultants who were conferred Adjunct titles of Clinical Tutor and Distinguished Clinical Tutor of AHERF in the year 2022. The names of remaining Adjunct title holders were mentioned in the Apollo Excellence Report of respective years.

List of consultants conferred with Adjunct Titles of Clinical Tutor / Distinguished Clinical Tutor /Emeritus Clinical Tutor of AHERF in 2022

1. Dr. Aarthi Khanna
   Laboratory Services
   ASH OMR
   Clinical Tutor

2. Dr. Animesh Saha
   Oncology-Clinical
   Kolkata
   Clinical Tutor

3. Dr. Aruna R Patil
   Radiology
   Bangalore
   Clinical Tutor

4. Dr. Ashwini Kumar Aiyangar
   Nephrology
   Secunderabad
   Clinical Tutor

5. Dr. Brahma Prasad V
   Neurosurgery
   Secunderabad
   Clinical Tutor

6. Dr. Charu Chaudhary
   Ophthalmology
   Lucknow
   Clinical Tutor
7. Dr. Deep Dutta  
Neurosurgery  
Guwahati  
Clinical Tutor

8. Dr. Ekta Sharma  
Obstetrics and Gynaecology  
Lucknow  
Clinical Tutor

9. Dr. Himleena Gautam  
Obstetrics and Gynaecology  
Guwahati  
Clinical Tutor

10. Dr. Kasturi Bhagawati  
Emergency Medicine  
Guwahati  
Clinical Tutor

11. Dr. Manjula Rao  
Oncosurgery-Breast  
APPC  
Clinical Tutor

12. Dr. Mrinal Chandra Bhattacharyya  
Internal Medicine  
Guwahati  
Clinical Tutor

13. Dr. Nikhil Puri  
Plastic Surgery  
Lucknow  
Clinical Tutor

14. Dr. Nilanjana Das  
Obstetrics and Gynaecology  
Guwahati  
Clinical Tutor

15. Dr. Prarthana Saxena  
Neurosurgery  
Lucknow  
Clinical Tutor

16. Dr. Pravin Govardhane  
Urology  
Nashik  
Clinical Tutor

17. Dr. Rondeep Kumar Nath Sivam  
Cardiology  
Guwahati  
Clinical Tutor

18. Dr. Saurabh B Tiwari  
Cardiac Anesthesia  
Navi Mumbai  
Clinical Tutor
19. Dr. Sonam Rathi  
ENT  
Lucknow  
Clinical Tutor

20. Dr. Sreevidya Subramanian  
Microbiology  
ASH OMR  
Clinical Tutor

21. Dr. Suvadip Chakrabarti  
Surgical Oncology  
Kolkata  
Clinical Tutor

22. Dr. V Muralidharan  
Spine Surgery  
Chennai  
Clinical Tutor

Distinguished Clinical Tutor

23. Dr. Abhishek Kulkarni  
Pediatric and Adolescent Endocrinology  
Navi Mumbai  
Distinguished Clinical Tutor

24. Dr. Ajit Surin  
Clinical Immunology and Rheumatology  
Bhubaneswar  
Distinguished Clinical Tutor

25. Dr. Amitav Mohanty  
Internal Medicine  
Bhubaneswar  
Distinguished Clinical Tutor

26. Dr. Asheesh Sharma  
General and Laparoscopic Surgery  
Lucknow  
Distinguished Clinical Tutor

27. Dr. Ashish Kakar  
Dental  
Delhi  
Distinguished Clinical Tutor

28. Dr. Binod Kumar Singhania  
Neurosurgery  
Kolkata  
Distinguished Clinical Tutor

29. Dr. Debasis Basu  
Internal Medicine and Diabetes  
Kolkata  
Distinguished Clinical Tutor

30. Dr. Dibya Jyoti Bora  
GI and hepato-pancreaticobiliary Surgery  
Guwahati  
Distinguished Clinical Tutor
31. Dr. Dul Deka  
Anaesthesia  
Guwahati  
Distinguished Clinical Tutor

32. Dr. Jayalakshmi TK  
Pulmonary Medicine  
Navi Mumbai  
Distinguished Clinical Tutor

33. Dr. Kavita Somani  
Laboratory Medicine  
Lucknow  
Distinguished Clinical Tutor

34. Dr. Mary Abraham  
Ophthalmology  
AFMH  
Distinguished Clinical Tutor

35. Dr. Mayank Somani  
Critical Care, Emergency Medicine and Internal Medicine  
Lucknow  
Distinguished Clinical Tutor

36. Dr. Meera Ragavan  
Urogynaecology  
Chennai  
Distinguished Clinical Tutor

37. Dr. Mitul Bora  
Nephrology  
Guwahati  
Distinguished Clinical Tutor

38. Dr. Om Prakash Verma  
Pulmonology and Sleep Medicine  
Lucknow  
Distinguished Clinical Tutor

39. Dr. Rajyalaxmi Konathan  
Dermatology, Venereology and Leprology  
Secunderabad  
Distinguished Clinical Tutor

40. Dr. Rani Akhil Bhat  
Oncology-Gynaecology  
Bangalore  
Distinguished Clinical Tutor

41. Dr. Ranjana Sharma  
Obstetrics and Gynaecology  
Delhi  
Distinguished Clinical Tutor

42. Dr. Richa Chaturvedi  
Endocrinology  
Delhi  
Distinguished Clinical Tutor
43. Dr. Roslin Loitongbam
   Internal Medicine
   Guwahati
   Distinguished Clinical Tutor

44. Dr. S Krishnan
   Nephrology
   Secunderabad
   Distinguished Clinical Tutor

45. Dr. Seemanta Kumar Medhi
   ENT and Head Neck Oncosurgery
   Guwahati
   Distinguished Clinical Tutor

46. Dr. Snehal Mallakmir
   Clinical Genetics
   Navi Mumbai
   Distinguished Clinical Tutor

47. Dr. Sunil Rajan
   Orthopedics and Arthroplasty
   Indore
   Distinguished Clinical Tutor

48. Dr. Swarup Ranjan De
   Critical Care
   Guwahati
   Distinguished Clinical Tutor

49. Dr. Tandra Biswas
   Internal Medicine
   Guwahati
   Distinguished Clinical Tutor

50. Dr. Thammiraju Sateesh Kumar
   Critical Care Medicine
   Secunderabad
   Distinguished Clinical Tutor

51. Dr. Usha Ayyagari
   Diabetes, Endocrinology and General Medicine
   ASH OMR
   Distinguished Clinical Tutor

52. Dr. Vijendran Pragasam
   Dermatology, Venereology and Leprosy
   Seshadripuram
   Distinguished Clinical Tutor

53. Dr. Chandran Abraham
   Ophthalmology
   AFMH
   Emeritus Clinical Tutor
Adjunct titles of Professorships and Associate Professorships of Apollo Hospitals Education and Research Foundation (AHERF)

Policy of grant of Adjunct Title of Professor and Associated Professor of AHERF was implemented in the year 2012 in order to boost the state of academics and research across Apollo Group.

Senior faculty members from Apollo Hospitals Group, who have an active interest in academics and research are nominated for the grant of these Adjunct Titles.

158 consultants have been conferred with Adjunct Title of Professor and Associate professor of AHERF in various specialities covering Anaesthesiology, Allergy and Immunology, Biochemistry, Cardiology, CTVS, Critical Care Medicine, Clinical Imaging and Interventional Radiology, Clinical Medical Physicist, Colorectal surgery, Community Medicine, Dermatology, Endocrinology & Diabetology, Emergency Medicine, ENT and Head and Neck Surgery, Gastroenterology and Hepatology, Minimal Access surgery, Gynaecology, Genetic Medicine, General Surgery, Hand and Microvascular Reconstructive Surgery, Head and neck oncology, Hematology, Histopathology and Cytopathology, Infectious Disease, Internal and Hyperbaric Medicine, Interventional Cardiology, Infectious Diseases, Liver Transplant, Molecular Biology, Microbiology, Nephrology, Neuroanesthesia, Neurology, Neurosurgery, Nuclear Medicine, Oncology, Orthopedics, Orthopaedics and Joint Replacement Surgery, Pediatrics, Pediatric Neurosurgery, Pediatric Cardiology, Pediatric Cardiac Surgery, Pediatric Gastroenterology and Hepatology, Pediatric Surgery, Paediatric Intensive Care, Pediatric Neurology, Pediatric Nephrology, Pediatric and Adolescent Endocrinology, Pediatric Hematology, Plastic Surgery, Pulmonology, Radiology, Respiratory Medicine, Rheumatology, Surgical Gastroenterology, Surgical Oncology, Transfusion Medicine, Tropical Medicine, Urology and Transplant surgery.

Apollo Excellence Report – 2022, carries the names of only those consultants who were conferred Title of Adjunct Professor and Associate Professor of AHERF in the year 2022. The names of remaining Adjunct title holders were mentioned in the Apollo Excellence Report of respective years.

List of consultants conferred with Adjunct Titles of Professors and Associate Professors of AHERF in 2022

**Adjunct Professors**

1. **Dr. Aathira Ravindranath**  
Pediatric Gastroenterology  
Mysore  
Professor

2. **Dr. Amit Gupta**  
Nephrology  
Lucknow  
Professor

3. **Dr. Arun Prasad**  
Bariatric Surgery  
Delhi  
Professor

4. **Dr. Bhawna Sirohi**  
Medical Oncology  
APCC  
Professor
5. Dr. Deepak Bhatia  
Orthopedic Surgery  
Navi Mumbai  
Professor

6. Dr. Dhanasekhar Kesavelu  
Pediatric Gastroenterology  
ACH  
Professor

7. Dr. Hari Krishnan Parthasarathy  
Interventional Cardiology  
ASH Vanagaram  
Professor

8. Dr. Joy M Thomas  
Interventional Cardiology and Electrophysiology  
ASH Vanagaram  
Professor

9. Dr. R C Ahuja  
Internal Medicine  
Lucknow  
Professor

10. Dr. R V Phadke  
Radiodiagnosis and Interventional Radiology  
Lucknow  
Professor

11. Dr. Rajeshwari Nayak  
Cardiology  
Chennai  
Professor

12. Dr. Rani Bhat  
Gynaecological Oncology  
Bangalore  
Professor

13. Dr. Roopesh Kumar  
Neurosurgery  
APCC  
Professor

14. Dr. Srinivas Chilukuri  
Radiation Oncology  
APCC  
Professor

15. Dr. U K Misra  
Neurosciences  
Lucknow  
Professor

Adjunct Associate Professors

16. Dr. Abhishek Kulkarni  
Pediatric and Adolescent Endocrinology  
Navi Mumbai  
Associate Professor
17. Dr. Adhithyan R  
Neuroradiology  
APCC  
Associate Professor

18. Dr. Aditya Choudhary  
Neurology  
Kolkata  
Associate Professor

19. Dr. Anand Srivastava  
Urology and Kidney Transplant  
Lucknow  
Associate Professor

20. Dr. Anjan Mukherjee  
Microbiology  
Kolkata  
Associate Professor

21. Dr. Debraj Jash  
Pulmonology  
Kolkata  
Associate Professor

22. Dr. Hariprasad V S  
Pulmonology/Critical care  
Bangalore  
Associate Professor

23. Dr. Nikhil Sonthalia  
Gastroenterology  
Kolkata  
Associate Professor

24. Dr. Pankaj Kumar Panda  
Clinical Research  
APPC  
Associate Professor

25. Dr. Premkumar Balachandran  
Hernia surgery and abdominal wall reconstruction  
Chennai  
Associate Professor

26. Dr. Ranjana Sharma  
Obstetrics and Gynaecology  
Delhi  
Associate Professor

27. Dr. Raymond Dominic Savio  
Critical Care Medicine  
APCC  
Associate Professor
Adjunct Title of International Professors

Policy of grant of Adjunct Title of International Professor of AHERF was implemented in the year 2019 with the aim to enhance research and academic activities by creating a think tank.

Renowned doctors from reputed healthcare institutions overseas, who have excellence in academics and research, are nominated for grant of Adjunct International Professor of AHERF. 39 consultants have been conferred with Adjunct Title of International Professor of AHERF till 2022. These Adjunct International Professors represent different specialities like Cardiology, CTVS, Colorectal surgery, Dermatology, Diagnostic Radiology, Gastroenterology and Hepatology, Hyperbaric Medicine, Infectious Disease, Internal Medicine, Laparoscopic/ Bariatric/ General Surgery, Liver Transplant Anesthesia, Nephrology, Neurosurgery, Oncoplastic Breast Surgeon, Orthopedic surgery, Otolaryngologist-Head and Neck Surgery, Pediatrics, Pediatric Cardiology, Pediatric Blood and Marrow Transplantation, Pancreatic and Biliary Disorders, Paediatric Nephrology, Rheumatology and Urology/Robotic surgery.

List of consultants conferred with Adjunct Title of International Professors of AHERF

1. Dr Anil Nanda
   Neurosurgery
   USA
Current Appointment: Professor and Chairman, Department of Neurosurgery, Rutgers University Robert Wood Johnson Medical School, Rutgers New Jersey Medical School

Publications: 546

Lectures/Presentation: 370 lectures/Presentations

Experience: 40

Current Appointment: Consultant Interventional Cardiologist and Lead Interventional Cardiologist, Morriston Cardiac Centre, Swansea Bay University Local Health Board, Senior Lecturer, Swansea University, Training Programme Director in Cardiology, All Wales Programme

Publications: 49

Lectures/Presentation: Senior Lecturer, Swansea University. Number of lectures not mentioned

Experience: 13

Current Appointment: Consultant General, Colorectal, Laparoscopic and Robotic Surgeon, Divisional Medical Director, Clinical services and Specialist Surgery, Clinical Director, Manchester Surgical Skills and Simulation Centre, The Christie NHS Foundation Trust, Manchester, M20 4BX, Hon. Sr Lecturer, University of Manchester

Publications: 37 papers, 25 abstracts, 7 letters to editor

Lectures/Presentation: Hon. Sr. Lecturer, Manchester University and Hon Clinical Lecturer, University of Liverpool

Experience: 17

Current Appointment: Consultant Urological Surgeon, Bristol Urological Institute, Southmead Hospital, Honorary Senior Clinical Lecturer, Faculty of Translational Health Sciences, Bristol Medical School, University of Bristol, U.K. Director: Stone Unit, European Board of Urology- European Association of Urology, Training Centre for Stone Diseases, Bristol Urological Institute, Bristol.
6. Dr Jorge Daes  
General, Bariatric and Advanced Laparoscopic Surgery  
USA

Location: USA

Current Appointment: Academic Director, MIS, Clinica Portoazul, Barranquilla, Colombia

Past President of Columbian Surgical Society, Pioneered the technique of eTEP approach surgery for hernia which is a notable contribution in the field of modern hernia surgery.

Publications: 41

Lectures/Presentation: 450

Experience: 40

7. Dr Karthikeyan P Iyengar  
Trauma and Orthopaedics  
UK

Current Appointment: Specialty Doctor in Trauma & Orthopaedics at Southport and Ormskirk NHS, Postgraduate Trainer

Publications: 93

Lectures/Presentation: Honorary Senior Clinical Lecturer, MCh programme, Edge Hill University, UK

Experience: 17

8. Dr Hina Arif-Tiwari  
Diagnostic Radiology  
USA

Current Appointment: Professor, Body Imaging, Department of Medical Imaging University of Arizona, College of Medicine

Publications: 84

Lectures/Presentation: 53 lectures, 76 presentations

Experience: 29

9. Dr Piu Banerjee  
Dermatology  
UK

Current Appointment: Past Clinical Vice President of British Association of Dermatologists (BAD), Founder and Chair of Skin Diversity Sub Committee, BAD, Consultant Dermatologist, University Hospital Lewisham (Lewisham and Greenwich NHS Trust), Consultant Dermatologist, St John’s Institute of Dermatology, Guys and St Thomas’ Hospital, Honorary Senior Lecturer, King’s College, London

Publications: 45

Lectures/Presentation: 50

Experience: 17

10. Dr Prakash Satwani  
Pediatric Blood and Marrow Transplantation  
USA
Current Appointment: Associate Professor, Division of Pediatric Blood and Marrow Transplantation, Columbia University Medical Center

Publications: 89
Lectures/Presentation: 14 lectures, 18 presentations
Experience: 20

Current Appointment: Professor of Clinical Cardiology, National, Heart and Lung Institute, Imperial College, London Consultant Cardiologist and Director of Echocardiography Royal Brompton Hospital, London, Consultant Cardiologist and Director of Cardiac Research Northwick Park Hospital, Harrow, UK

Publications: 420
Lectures/Presentation: 552
Experience: 39

Current Appointment: Clinical lead and Consultant Paediatric, Nephrologist, Children's Kidney centre, Department of Paediatric Nephrology, University Hospital for Wales, Cardiff (UK)

Publications: 22
Lectures/Presentation: 6
Experience: 29

Current Appointment: Clinical Assistant Professor Dermatology University of Texas Southwestern Medical Center at Dallas

Publications: 42

Current Appointment: Senior Consultant Cardiothoracic Surgeon, Head of Chest Wall Surgery. The Barts Heart Centre, St Bartholomew’s Hospital, West Smithfield, London EC1 7BE UK, Honorary Associate Professor, University College London Gower St, London WC1E 6BT

Publications: 54
Lectures/Presentation: Lectures at a post-graduate level to registrars and senior house officers (St Bartholomew's Hospital)
Experience: 24

11. Dr Roxy Senior
Clinical Cardiology
UK

12. Dr Seemal R Desai
Dermatology
USA

13. Dr Shivaram Hegde
Pediatric Nephrology
UK

14. Dr Shyamsunder Krishna Kolvekar
Cardiothoracic Surgery
UK
Recognition of Books

Dr A Vincent Thamburaj, Neurosurgery, Chennai

- Comprehensive neurosurgery

Date of Publication: Volume 1 & Volume 2, September 2021

Author/Editor of Text book: Dr A Vincent Thamburaj

Dr Akshat Pandey, Rheumatology, Indore

- Glucocorticoids in rheumatology

Date of Publication: 2022

Author/Editor of Text book: Dr Akshat Pandey

Dr C Venkata S Ram, HTN and Blood Pressure Management, Hyderabad

- Hypertension and cardiovascular disease in Asia

Date of Publication: 2022

Author/Editor of Text book: Dr C Venkata S Ram

Dr Deepa Passi, Paediatrics, Noida

- Substance abuse in children and adolescents

Date of Publication: 2021

Author/Editor of Text book: Dr Deepa Passi

Dr Deepak N Bhatia, Orthopaedic Surgery, Navi Mumbai

- Arthroscopy and endoscopy of the elbow, wrist and hand surgical anatomy and techniques

Date of Publication: 2022

Author/Editor of Text book: Dr Deepak N Bhatia

Dr Dhanaraj M, Neurology, Chennai

- Parkinson Disease (in Tamil Language)

Date of Publication: 2021

Author/Editor of Text book: Dr Dhanaraj M

Dr Dhanya Dharmapalan, Paediatric Infectious Diseases, Navi Mumbai

- Pediatric and adolescent practitioners

Date of Publication: 2021

Author/Editor of Text book: Dr Dhanya Dharmapalan

- Polio: The eradication imbroglio, the malady and its remedy

Date of Publication: 2021

Author/Editor of Text book: Dr Dhanya Dharmapalan

Dr I Sathyamurthy, Cardiology, Chennai

- Heart Rate - Is it a missing link?

Date of Publication: 2021

Author/Editor of Text book: Dr I Sathyamurthy

Dr IPS Kochar, Paediatric and Adolescent Endocrinology, Delhi

- Practical approach to paediatric and adolescent endocrinology

Date of Publication: 2021

Author/Editor of Text book: Dr IPS Kochar
Dr Kiran V Godse, Dermatology, Navi Mumbai
- Handbook of urticaria
  
  **Date of Publication:** 2022
  
  **Author/Editor of Text book:** Dr Kiran V Godse

Dr Koushik Lahiri, Dermatology, Kolkata
- Postgraduate dermatology
  
  **Date of Publication:** Volume 1 and Volume 2, 2021
  
  **Author/Editor of Text book:** Dr Koushik Lahiri

Dr Manjit S Kanwar, Respiratory Medicine, Delhi
- Comprehensive textbook of COVID-19
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr Manjit S Kanwar

Dr Md Ibrarullah, Surgical Gastroenterology, Bhubaneswar
- Safe laparoscopic cholecystectomy-An illustrated atlas
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr Md Ibrarullah

Dr Mithin Aachi, Orthopedics, Secunderabad
- A Beginners guide to total knee replacement
  
  **Date of Publication:** 2022
  
  **Author/Editor of Text book:** Dr Mithin Aachi

Dr Muralidhar Thondelbahi, Anaesthesia and Pain Management, Jayanagar
- Think like an Anaesthetist life tool from the operating theatre
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr Muralidhar Thondelbahi

Dr PL Dhingra, ENT and Head and Neck Surgery, Delhi
- Diseases of ear, nose and throat and head and neck surgery
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr PL Dhingra

Dr Rohini Handa, Rheumatology, Delhi
- Clinical Rheumatology
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr Rohini Handa

Dr Rohini Handa, Rheumatology, Delhi
- Rheumatology clinics spondyloarthritis-
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr Rohini Handa

Dr Sanish Shrikant Shringarpure, Urology and Andrology, Navi Mumbai
- Let Us talk about sex (A complete answer to misconceptions in parents, adolescents, unmarried and married adults about sexual issues)
  
  **Date of Publication:** 2021
  
  **Author/Editor of Text book:** Dr Sanish Shrikant Shringarpure
Clinical Fellowship of Apollo Hospitals Education and Research Foundation

Clinical Fellowship accredited by Apollo Hospitals Educational and Research Foundation (AHREF) was started in the year 2013.

As per policy, Clinical fellowships by AHREF are offered in those specialties where no structured or limited training programs exists at post graduate level in India.

There is a defined eligibility criteria with duration of fellowship which is aligned to the intake months of post graduate and DNB entrance examinations. Candidates with MBBS qualification are also eligible for certain fellowships.

These fellowships are for 6 months, 1 year and 2 years' duration.

54 Clinical Fellowships with 81 seats have been approved at 19 Apollo Group locations to run the Clinical Fellowship.

1. Stroke in Neurology
2. Cardiac/CTVS Anaesthesia
3. Endoscopy in Gastroenterology
4. Clinical Nephrology
5. Renal Dialysis
6. Transplant Nephrology
7. Interventional Pulmonology
8. Hyperbaric Medicine
9. Endocrinology
10. Head and Neck Oncologic Surgery
11. Liver Transplant Anaesthesia
12. Liver Transplant and HPB Surgery
13. Genitourinary Surgery
14. Renal Transplant Surgery
15. Interventional Cardiology
16. Radiation Oncology
17. Emergency Neurology
18. Transfusion Medicine
19. Developmental Pediatrics
20. Arthroscopy and Sport Medicine
21. Anaesthesiology
22. Implantation Otology
23. Pediatric and Adolescent Endocrinology
24. Minimal Access and Robotic Surgery in Gynaecology
25. Hepatology
26. IVF
27. Clinical Genetics
28. Colorectal Surgery
29. Clinical Apheresis
30. Pediatric Cardiac Critical Care
31. Vascular/Endovascular Surgery
32. Breast Oncosurgery
33. Gynae Oncosurgery
34. Applied Clinical Medicine
35. Pediatrics
36. Nuclear Medicine
37. Diagnostic and Interventional Neuroradiology
38. Allergy and Clinical Immunology
39. Dermatopathology
40. Spine Surgery
41. Interventional Radiology
42. Dialysis
43. Critical Care Nephrology
44. Minimally invasive neurosurgery (Brain and Spine)-Guwahati
45. Coronary Imaging and Physiology
46. Adult interventional cardiology
47. Bone Marrow Transplant and Cellular Therapy
48. Clinical Microbiology and Infectious Disease
49. Oncopathology
50. Onco-imaging
51. Critical Care
52. Stroke and Interventional Neuroradiology
53. Non-Invasive Cardiology
54. Arthroplasty and Sport Medicine

Apollo Group locations where Clinical Fellowship of AHERF have been approved

1. Delhi
2. Bangalore
3. Bilaspur
4. Pune
5. Kolkata
6. Bhubaneswar
7. Kakinada
8. Secunderabad
9. Chennai-Main
10. ASH Chennai
11. Hyderabad
12. Guwahati
13. Navi Mumbai
14. Lucknow
15. Indore
16. Seshadripuram
17. Nellore
18. Vanagaram
19. Jayanagar

Training
Training is being conducted as per teaching/training schedule prepared by the supervisor/guide and subsequently approved by AHERF.

There is a defined process of training which includes:

1. Hands on training by observing procedures and surgeries, case presentation during clinical meetings, observations, training through simulator and videos

2. Clinical training is imparted through clinical meetings/ CMEs/ departmental meetings/symposiums and bed side case presentation. Fellows can join the Journal Club.

**Final Assessment / Evaluation process and Exit examination**

The final examination is conducted at the end of the fellowship program by one external examiner and one internal examiner. The final examination consists of the following:

i. Written Examination
ii. MCQs
iii. Viva
iv. Practical Clinical Skill Assessment Test

A Logbook is provided to each candidate by the institution and the same is maintained by each candidate on daily basis. Logbook is countersigned by the supervisor/guide on regular basis.

Clinical fellows who successfully complete their training and examination, are conferred with certificate of Clinical Fellowship of AHERF in the respective speciality

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1. Dr Deepti N Mahoirkar
   Minimal Access and Robotic Surgery in Gynecology
   Apollo Jubilee Hills, Hyderabad
   Name of Guide/ Consultant
   Dr Anuradha Panda and Dr Rooma Sinha

2. Dr Divya Mathur
   Pediatric Cardiac Critical Care
   Indraprastha Apollo Hospitals, Delhi
   Name of Guide/ Consultant
   Dr Reetesh Gupta

3. Dr Gayatri Satpathy
   Minimal Access and Robotic Surgery in Gynecology
   Apollo Jubilee Hills, Hyderabad
   Name of Guide/ Consultant
   Dr Anuradha Panda and Dr Rooma Sinha

4. Dr Jonna Uday Bhaskar
   Interventional Radiology
   Apollo Hospitals, Bangalore
   Name of Guide/ Consultant
   Dr Amitha Vikrama

5. Dr M Someswara Rao
   Colorectal Surgery
   Apollo Jubilee Hills, Hyderabad
   Name of Guide/ Consultant
   Dr Varughese Mathai and Dr Kishore Alapati

6. Dr Saksham Singh
   BMT and Cellular Therapy
   Indraprastha Apollo Hospitals, Delhi
   Name of Guide/ Consultant
   Dr Gaurav Kharya

7. Dr Shradha Engles
   Vascular and Endovascular Surgery
   Indraprastha Apollo Hospitals, Delhi
   Name of Guide/ Consultant
   Dr Rakesh Mahajan
Recognition of Published Papers

Apollo Hospitals encourages consultants, junior medical staff, DNB trainees and nursing staff to undertake research activities in their areas of expertise. Apollo supports the effort of its staff and recognizes their achievements in publishing research papers.

Policy on “Recognition of Published Papers” was institutionalized in the year 2009 to encourage an academic and research milieu in the organization by recognizing published papers in reputed peer reviewed journals by consultants, junior medical staff, DNB trainees and nursing staff.

Impact factor is one of the quantitative tools for ranking, evaluating and categorizing.

517 papers have been received for recognition from Apollo Group consultants during the year 2022.

**Dr Aabha Nagral**, Gastroenterology, Apollo Hospitals, Navi Mumbai

1. Herbal immune booster-induced liver injury in the covid-19 pandemic - A case series

Authors and Co-authors details: Aabha Nagral, Kunal Adhyaru, Omkar S Rudra, Amit Gharat, Sonal Bhandare

Publishing Journal and date: Journal of Clinical and Experimental Hepatology, November–December 2021

2. Quality of life of patients with Wilson's disease and their families

Authors and Co-authors details: Ojas Unavane, Kritika Tiwari, Aabha Nagral, Ritika Aggarwal, Nikita Garg, Nishtha Nagra, Bela Verma, Ajay Jhaveri, Maninder S Setia

Publishing Journal and date: Journal of Clinical and Experimental Hepatology, March – April 2022

3. Clinicopathological profile and outcome of a large cohort of patients with nonalcoholic fatty liver disease from south Asia: Interim results of the Indian consortium on nonalcoholic fatty liver disease

Authors and Co-authors details: Dr Aabha Nagral

Publishing Journal and date: Metabolic Syndrome and Related Disorders, 2021

4. Techniques and outcomes of transjugular intrahepatic portosystemic shunting in infants with Budd-Chiari syndrome

Authors and Co-authors details: Ashwin Deshmukh, Ajay Jhaveri, Aabha Nagral, Shaji Marar

Publishing Journal and date: Journal of Vascular and Interventional Radiology, 2021

Dr Aarthiprabha KR, (DNB Resident) Pathology, Apollo Main Hospital, Chennai

5. Moderately differentiated Sertoli-Leydig cell tumor of ovary with associated mucinous carcinoma and carcinoid — A case report and review of literature

Authors and Co-authors details: Aarthiprabha Ravichandaran, Archana Lakshmanan, Ann Kurian, Srikala Prasad

Publishing Journal and date: Indian Journal of Pathology and Microbiology, 2021

6. Primary glomus tumor of the kidney

Authors and Co-authors details: K R Aarthiprabhaa, Saloni Naresh Shaha, Maya Menona, S Annapurneswari

Publishing Journal and date: Current Problems in Cancer: Case Reports, 2021
Dr Abhishek Vaish, (Attending Consultant) Orthopaedics, Indraprastha Apollo Hospitals, Delhi

7. Etiopathology and management of stiff knees: A current concept review

Authors and Co-authors details: Vaish A, Vaishya R, Bhasin VB

Publishing Journal and date: Indian J Orthop, 2021

8. Pre-print: already the bride or still the bridesmaid?

Authors and Co-authors details: Vaish A, Sharma D, Vaishya R

Publishing Journal and date: Postgrad Med J, 19th August 2021


Authors and Co-authors details: Ansari AH, Gupta AK, Vaish A, Vaishya R

Publishing Journal and date: BMJ Case Rep, 2021

10. Fracture in an arthrodesed Charcot’s knee joint

Authors and Co-authors details: Reddy SS, Vaish A, Vaishya R

Publishing Journal and date: BMJ Case Rep, 2021

11. Trends of arthroscopy publications in PubMed and Scopus

Authors and Co-authors details: Srinivas KBS, Vaish A, Vaishya R, Patralekh MK Knee

Publishing Journal and date: Surg Rel Res, 2021

12. Predatory journals – Alarming danger to the society

Authors and Co-authors details: Vaish A, Vaishya R J Clin

Publishing Journal and date: Orthop Trauma, 2021

13. Bibliometric analysis of the Top 50 most cited publications of the Journal of Clinical Orthopaedics and Trauma

Authors and Co-authors details: Vishwanathan K, Srinivas KBS, Patralekh KBS, Vaish A, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

14. Can intermittent fasting be helpful for knee osteoarthritis?

Authors and Co-authors details: Suresh Babu YS, Vaish A, Vaishya R, Agarwal A

Publishing Journal and date: J Clin Orthop Trauma, 2021

15. A rare recurrent chondromyxoid fibroma of the proximal tibia in an adolescent female

Authors and Co-authors details: Goyal AK, Vaish A, Vaishya R, Baweja P

Publishing Journal and date: J Bone Soft Tissue Tumors, September 2020

16. Successful salvage of a mangled injury of the ankle in a young male: with review of literature

Authors and Co-authors details: Vaish A, Goyal A, Vaishya R

Publishing Journal and date: J Orthop Case Reports, 2021

17. Trends of publication in the orthopaedic journals from India - A bibliometric study

Authors and Co-authors details: Patralekh MK, Vaish A, Vaishya R, Gulia A, Lal H

Publishing Journal and date: J Indian Med Sc, 2021
18. Migration of a broken Kirschner-wire to the popliteal fossa following Tension-Band Wiring of a Patellar fracture: A case report

Authors and Co-authors details: Vaish A, Ansari AH, Gupta AK, Vaishya R

Publishing Journal and date: Apollo Medicine, 2021

19. Multiple infarcts around the knee in a middle-aged female

Authors and Co-authors details: Vaish A, Vaishya R

Publishing Journal and date: Apollo Medicine, 2021

Dr Abubacker Sulaiman, Radiology, Apollo Proton Cancer Centre

20. Cardiac tuberculosis on 18F-FDG PET imaging—A great masquerader of cardiac sarcoidosis

Authors and Co-authors details: Sumati Sundaraiya, Abubacker Sulaiman, Adhithyan Rajendran

Publishing Journal and date: Indian J Radiology Imaging E-First, 2021

Dr Adhithya R, Radiodiagnosis, Apollo Proton Cancer Centre


Authors and Co-authors details: Adhithyan R, Kannath S, Thomas B, Jayadevan E, Sylaja P N, Kesavadas C

Publishing Journal and date: Neurol India, 2021

Dr Adithya G K, Surgical Gastroenterology, Indraprastha Apollo Hospitals, Delhi

22. Feasibility of laparoscopic intraoperative cholangiogram in patients with intermediate risk for choledocholithiasis

Authors and Co-authors details: Adithya G K, Satya Prakash Jindal, Varun Madaan, Vachan Hukkeri, Rigved Gupta, Vivek Tandon, Deepak Govil

Publishing Journal and date: J Evid Based Med Healthc, Volume 8, 2021

Dr Ajay Padmanaban, Critical Care Medicine, Apollo Main Hospital, Chennai

23. Higher vs lower doses of dexamethasone in patients with COVID-19 and severe hypoxia (Covid Steroid 2) trial: Protocol for a secondary Bayesian analysis

Authors and Co-authors details: Dr Ajay is 33rd author out of total 45 authors

Publishing Journal and date: Acta Anaesthesiol Scand, May 2021

24. Higher vs lower doses of dexamethasone in patients with COVID-19 and severe hypoxia (Covid Steroid 2) trial: Protocol and statistical analysis plan

Authors and Co-authors details: Dr Ajay is 33rd author out of total 45 authors

Publishing Journal and date: Acta Anaesthesiol Scand, May 2021

25. Dexamethasone 12 mg versus 6 mg for patients with COVID-19 and severe hypoxaemia: a pre-planned, secondary Bayesian analysis of the Covid Steroid 2 trial

Authors and Co-authors details: Dr Ajay

Publishing Journal and date: Intensive Care Med, November 2021
Dr Ajit Pai, Surgical Oncology, Apollo Proton Cancer Centre

26. Death comes calling: When the physician becomes the patient G2:G16

Authors and Co-authors details: Pai, Ajit


Dr Ajit Surin, Rheumatology, Apollo Hospitals, Bhubaneswar

27. Common mental disorders in South Asian patients with systemic sclerosis: a CIS-R-based cross-sectional study

Authors and Co-authors details: Avanish Jha, Debashish Danda Abigail Ruth Gojer, Ajit Kumar Surin, Rachana Shenoy, Sangeetha Priya, Bijesh Yadav

Publishing Journal and date: Rheumatology International, 2022

Dr Amita Mahajan, Pediatric Hematology and Oncology, Indraprastha Apollo Hospitals, Delhi

28. How I treat medulloblastoma in children

Authors and Co-authors details: Mahajan A

Publishing Journal and date: Indian Journal of Med Pediatric Oncology, 2020

29. Safe administration of high-dose methotrexate with minimal drug level monitoring: Experience from a center in north India

Authors and Co-authors details: Himani Dhingra, Manas Kalra, Amita Mahajan

Publishing Journal and date: Pediatric Blood and Cancer Journal, 2020

30. In POG-HL-15-01-Challenges and lessons learnt in setting up the first collaborative multicentre prospective clinical trial in childhood cancer in India

Authors and Co-authors details: Ramandeep Singh Arora, Amita Mahajan, Veronique Dinand, Manas Kalra, Sandeep Jain, Ankit Taluja, Piali Mandal, Jagdish Chandra

Publishing Journal and date: Pediatric Hematology Oncology Journal, 2020

31. Fighting the rising spectre of tough bugs in tough clinical scenario: A ten-year experience from a hemato-oncology centre in tertiary health care facility in North India

Authors and Co-authors details: Himani Dhingra, Manas Kalra, Leena Mendiratta, Hena Butta, Raman Sardana, Amita Mahajan

Publishing Journal and date: Journal of Infectious Disease And Treatment, 2020

32. A study analyzing the health-related quality of life of retinoblastoma survivors in India

Authors and Co-authors details: Himani Dhingra, Deepanjali Arya, Ankit Taluja, Sima Das, Amita Mahajan


33. Bilateral leukemic pulmonary infiltrates: An initial presentation of acute lymphoblastic leukemia relapse

Authors and Co-authors details: Kushagra Taneja, Chandrika Verma, Amita Mahajan

Publishing Journal and date: Indian Journal of Pediatric, 2021

34. Can ruxolitinib avert splenectomy in patients with thalassaemia: A short-term case series
35. Collaborative cancer research: Progress report from the Indian Pediatric Oncology Group

**Authors and Co-authors details:** Kushagra Taneja, Chandrika Verma, Amita Mahajan

**Publishing Journal and date:** Mahajan British Society for Haematology, 2021

36. Early detection and rescue of an unusual case of pediatric acute liver failure associated with secondary hemophagocytic lymphophagocytosis: Case report from a liver transplant center in India

**Authors and Co-authors details:** Ramandeep Singh Arora, Revathi Raj, Amita Mahajan, Nita Radhakrishnan, Girish Chinnaswamy, Shripad Banavali

**Publishing Journal and date:** The Lancet Child and Adolescent Health, 2021

37. Hemophagocytic lymphohistiocytosis in a child with Gorlin syndrome and medulloblastoma – A case report

**Authors and Co-authors details:** Richa Mittal, Smita Malhotra, Nameet Jerath, Amita Mahajan, Anupam Sibal

**Publishing Journal and date:** Journal of Child Science, 2021


**Authors and Co-authors details:** Sandeep Jain, Sameer Bakhshi, Rachna Seth, Nishant Verma, Manisha Singh, Amita Mahajan, Venkatraman Radhakrishnan, Piali Mandal, Ramandeep Arora, Veronique Dinand, Manas Kalra, Anurag Sharma, Ankit Taluja, Sanjay Thulkar, Ahitagni Biswas, Jagdish Chandra

**Publishing Journal and date:** Leukemia and Lymphoma, 2021

39. Shared care for children with cancer in India through social and healthcare partnerships during the COVID-19 pandemic

**Authors and Co-authors details:** Dr Amita

**Publishing Journal and date:** Cancer Reports, 2021

40. The Impact of Covid-19 pandemic on access to treatment for children with cancer in India and treating center practices

**Authors and Co-authors details:** Dr Amita

**Publishing Journal and date:** Cancer, 2021


**Authors and Co-authors details:** Dr Amita

**Publishing Journal and date:** Pediatr Blood Cancer, 2021

42. Daily home-based meditation can increase the amount of grey matter in brains of patients with mild Alzheimer's disease

**Authors and Co-authors details:** Dr Amitabha Ghosh

**Publishing Journal and date:** Study Department Of Science and Technology, Government of India, 2021
43. SGLT2 inhibitors beyond glycaemic control

Authors and Co-authors details: Amit S Tade, Arindam Chatterjee, Amitav Mohanty

Publishing Journal and date: Odisha Physicians Journal, 2021

44. Pulsed radiofrequency of stellate ganglion for neuropathic pain associated with recurrent pleural leiomyosarcoma - A case report

Authors and Co-authors details: Anand Murugesan, MS Raghuraman

Publishing Journal and date: Indian J Palliat Care, October-December 2021

45. Comparison of 0.125% and 0.2% ropivacaine in continuous lumbar plexus block for postoperative analgesia after total hip arthroplasty

Authors and Co-authors details: Anand Murugesan, Deepak Gurunathan, MS Raghuraman, Daivam Indumathi, M Thiriloga Sundary

Publishing Journal and date: The Indian Anaesthetists forum, 2021

46. Pulsed radiofrequency lesioning of the lumbosacral dorsal root ganglion in a patient with lumbosacral plexopathy due to locally advanced pelvic liposarcoma

Authors and Co-authors details: Anand Murugesan, Indumathi Daivam, Sapna Nangia, Nagarjuna Burela, Pankaj Kumar Panda, MS Raghuraman

Publishing Journal and date: Indian Journal of Pain, 2021

47. Hydro-dissection of dorsal scapular nerve for neuropathy post radical neck dissection and radiation: A case report

Authors and Co-authors details: Anand Murugesan, MS Raghuraman, Srinivas Chilukuri, Thirumalai Raja

Publishing Journal and date: Indian Journal of Palliative Care, December 2021

48. Radiofrequency ablation of stellate ganglion for neuropathic pain due to brachial plexus neurofibroma in a patient with neurofibromatosis type 1

Authors and Co-authors details: Anand Murugesan, MS Raghuraman, Vinod Krishnagopal

Publishing Journal and date: The Indian Anaesthetists forum, 2021

49. Piriformis syndrome and variants-A comprehensive review on diagnosis and treatment

Authors and Co-authors details: Anil Pande, Rathipriya Annan Gopinath, Sheena Ali, R Adithyan, Senguttuvan Pandian, Siddhartha Ghosh

Publishing Journal and date: Journal of Spinal Surgery, October-December 2021

50. Spinal drop metastasis of glioblastoma-Two case reports, clinicopathologic features, current modalities of evaluation, and treatment with a review of the literature


Publishing Journal and date: World Neurosurg, February 2021
Dr Animesh Saha, Oncology Clinical, Apollo Hospitals, Kolkata

51. Can dosimetry affect local control and survival in patients with early-stage lung cancer treated with stereotactic ablative radiotherapy (SABR)? An analysis of the UK’s largest cohort lung SABR patients

Authors and Co-authors details: Dr Animesh is the 1st author out of 10th author

Publishing Journal and date: Acta Oncologica, January 2021

52. Is thoracic radiotherapy an absolute contraindication for treatment of lung cancer patients with interstitial lung disease? A systemic review

Authors and Co-authors details: Dr Animesh is the 1st author out of 5th author

Publishing Journal and date: Clinical oncology, 2022

Dr Ankur Agarwal, Urology, Apollo Hospitals, Guwahati

53. Bilateral orchidectomy revisited in management of metastatic hormone-sensitive prostate cancer

Authors and Co-authors details: Ankur Agarwala, Somendra Bansal, Narmada P Gupta

Publishing Journal and date: Indian Journal of Surgical Oncology, Volume 12, 2021

Dr Anoop P, Pediatric Hemato-oncology, Apollo Hospitals, Bangalore

54. Refractory autoimmune hematological presentations of undiagnosed tuberculosis

Authors and Co-authors details: Dr Anoop is 1st author out of 6 authors

Publishing Journal and date: Journal of the Association of India, September 2021

Dr Anupam Wakhlu, Clinical immunology and Rheumatology, Apollo Medics Hospital, Lucknow

55. Extensive calcinosis in a patient with Raynaud’s phenomenon and Anti-Ku antibody positivity

Authors and Co-authors details: Kunal Chandwar, Digvijay Ekbote, Juhi Dixit, Kriti Kishor, Rasmi Ranjan Sahoo, Anupam Wakhlu

Publishing Journal and date: Indian Journal of Rheumatology, November 2021

56. Macrophage activation syndrome as the presenting manifestation of systemic lupus erythematosus

Authors and Co-authors details: Digvijay Gajanan Ekbote, Kriti Kishor, Rasmi Ranjan Sahoo, Anupam Wakhlu

Publishing Journal and date: Indian Journal of Rheumatology, February 2021

57. Myasthenia overlap - Report of two cases and review of literature

Authors and Co-authors details: Manesh Manoj, Rasmi Ranjan Sahoo, Kasturi Hazarika, Prashant Bafna, Anupam Wakhlu

Publishing Journal and date: Indian Journal of Rheumatology, November 2021

58. Fibrodysplasia ossificans progressiva: A skeleton within a skeleton

Authors and Co-authors details: Kasturi Hazarika, Digvijay Gajanan Ekbote, Rasmi Ranjan Sahoo, Abilash Krishnan, Anupam Wakhlu

Publishing Journal and date: Indian Journal of Rheumatology, September 2021

59. Repurposing drugs: Lessons from rheumatology in the COVID-19 pandemic
Authors and Co-authors details: Manesh Manoj, Prashant Bafna, Rasmi Ranjan Sahoo, Kasturi Hazarika, Anupam Wakhlu

Publishing Journal and date: Indian Journal of Rheumatology, April 2021

60. Tenofovir-induced Fanconi Syndrome: An uncommon cause of Hypophosphatemic Osteomalacia

Authors and Co-authors details: Rasmi Ranjan Sahoo, Anupam Wakhlu

Publishing Journal and date: American College of Rheumatology, 23rd January 2021

61. Multidrug-resistant novel Nocardia neocaledoniensis brain abscess in sarcoidosis

Authors and Co-authors details: Kasturi Hazarika, Rasmi Ranjan Sahoo, Digvijay Ekbote, Ajai Kumar Dixit, Rungmei S Marak, Anupam Wakhlu

Publishing Journal and date: BMJ Case Reports, April 2021

62. Clinical, radiologic and serologic profile of patients with interstitial pneumonia with autoimmune features: a cross-sectional study

Authors and Co-authors details: Kasturi Hazarika, Rasmi Ranjan Sahoo, Namita Mohindra, Archana Wakhlu, Manesh Manojl, Prashant Bafnal, Rajiv Garg, Durga Prasanna Misra, Vikas Agarwal, Anupam Wakh

Publishing Journal and date: Rheumatology International, May 2021

63. Prevalence of liver fibrosis by Fibroscan in patients on long-term methotrexate therapy for rheumatoid arthritis

Authors and Co-authors details: Prashant Bafnal, Rasmi Ranjan Sahoo, Kasturi Hazarika, Manesh Manojl, Sumit Rungta, Anupam Wakhlu

Publishing Journal and date: Clinical Rheumatology, September 2021

64. Comment on: Assessing the risk of retinopathy in Indian patients using hydroxychloroquine for rheumatic and musculoskeletal diseases: A retrospective observational study

Authors and Co-authors details: Manesh Manoj, Rasmi Ranjan Sahoo, Anupam Wakhlu

Publishing Journal and date: Indian Journal of Rheumatology, April 2021

65. Prevalence of hydroxychloroquine retinopathy with long term use in a cohort of Indian patients with rheumatic diseases

Authors and Co-authors details: Manesh Manoj, Rasmi Ranjan Sahoo, Ankita Singh, Kasturi Hazarika, Prashant Bafna, Apjit Kaur, Anupam Wakhlu

Publishing Journal and date: Rheumatology International, March 2021

Dr Apoorv Kumar, Orthopaedics and Spine Surgery, Apollo Medics Hospitals, Lucknow

66. Temporal pattern of pain and disability following the administration of a selective nerve root block in lumbar disc herniation with radiculopathy

Authors and Co-authors details: Shaikh H, Kumar A, Kishen TJ

Dr Archana Lakshmanan, Pathology, Apollo Cancer Institute, Chennai

67. Pulmonary adenofibroma in an elderly male with recurrent soft tissue sarcoma

Authors and Co-authors details: Sandhya Devi, Archana Lakshmanan S, Annapurneswari

Publishing Journal and date: Journal of Clinical and Diagnostic Research, February 2021

68. Moderately differentiated Sertoli-Leydig cell tumor of ovary with associated mucinous carcinoma and carcinoid-A case report and review of literature

Authors and Co-authors details: Aarthiprabha Ravichandaran, Archana Lakshmanan, Ann Kurian, Srikala Prasad

Publishing Journal and date: Indian J Pathol Microbiol, July-September 2021

69. Interdigitating dendritic cell sarcoma involving head and neck region- a report of four cases with review of literature

Authors and Co-authors details: Archana Lakshmanan, Ann Kurian S, Annapurneswari

Publishing Journal and date: Human Pathology: Case Reports, June 2021

Dr Ardiya Singh, (Jr. Consultant) Anesthesiology, Apollo Hospitals, Guwahati

70. Peri operative airway and respiratory complications in children undergoing cleft lip and palate repair at a tertiary institute: An observational study

Authors and Co-authors details: Dr Ardiya Singh, Dr Geeta Patkar, Dr Bharti Tendulkar


Dr Arun Prasad, General and Bariatric surgery, Indraprastha Apollo Hospitals, Delhi

71. Complications after bariatric surgery: A multicentric study of 11,568 patients from Indian bariatric surgery outcomes reporting group

Authors and Co-authors details: Dr Arun Prasad

Publishing Journal and date: J Minim Access Surg, April-June 2021

72. Impact of COVID-19 pandemic on bariatric surgery in India: An obesity and metabolic surgery society of India survey of 1307 patients

Authors and Co-authors details: Dr Arun Prasad

Publishing Journal and date: J Minim Access Surg, October-December 2021

73. Obesity and metabolic surgery society of India (OSSI) recommendations for bariatric and metabolic surgery practice during the Covid-19 pandemic

Authors and Co-authors details: Dr Arun Prasad

Publishing Journal and date: Obesity Surgery Journal, 2020

74. The first modified Delphi consensus statement on sleeve gastrectomy

Authors and Co-authors details: Dr Arun Prasad

Publishing Journal and date: Surg Endosc, 2021

Dr Aruna R Patil, Radiology, Apollo Hospitals, Bangalore

75. Dual aneurysm formation in an occupationally predisposed male: Atypical hypothenar hammer syndrome

Authors and Co-authors details: Aruna Raman Patil, Sunder Narasimhan

Publishing Journal and date: Indian Journal of Radiology and Imaging, 30th November 2021
76. Magnetic resonance imaging in giant perianal epidermoid

**Authors and Co-authors details:** Aruna Raman Patil, Amit Bansal, Nilotpal Chakma, Ravishankar Bhat, Swarna Shivakumar

**Publishing Journal and date:** Journal of Gastrointestinal and Abdominal Radiology, 5th August 2021

77. Imaging in a case of classic Trevor’s disease

**Authors and Co-authors details:** Aruna R Patil, Apurva Javalgi, Manohara Babu, Swarna Shivakumar

**Publishing Journal and date:** Indian Journal of Musculoskeletal Radiology, 20th December 2021

78. Imaging in calcific tendinitis of linea aspera: A case report and review of literature

**Authors and Co-authors details:** Aruna R Patil, Manish Samson

**Publishing Journal and date:** Indian Journal of Musculoskeletal Radiology, 20th December 2021

79. Computed tomography diagnosis of posterior rectus sheath hernia causing intermittent small bowel obstruction

**Authors and Co-authors details:** Aruna Raman Patil, Madhukar Medipally, Amit Bansal, Nilotpal Chakma

**Publishing Journal and date:** Apollo Medicine, 17th May 2021

80. Painful Os peroneum syndrome

**Authors and Co-authors details:** Aruna R Patil

**Publishing Journal and date:** RSNA case collection, 21st June 2021

---

**Dr Arvind Sukumaran,** Neurosurgery, Apollo Proton Cancer Centre, Chennai

81. Pediatric to adult hydrocephalus: A smooth transition

**Authors and Co-authors details:** Manilyn A Hong, Arvind Sukumaran, Jay Riva Cambrin

**Publishing Journal and date:** Neurology India, Neurological Society of India, 2021

**Dr Ashish Jaiswal,** Orthopedic and spine surgery, Apollo Hospitals, Bilaspur

82. Minimally invasive L5 corpectomy with navigated expandable vertebral cage: A technical note

**Authors and Co-authors details:** Taro Yamauchi, Ashish Jaiswal, Masato Tanaka, Yoshihiro Fujiwara, Yoshiaki Oda, Shinya Arataki, Haruo Misawa

**Publishing Journal and date:** Brain Sciences, 2021

**Dr Ashish Kakar,** Dental Surgery, Indraprastha Apollo Hospitals, Delhi

83. Osteotome-mediated sinus floor elevation using an in situ hardening biphasic calcium phosphate bone graft substitute compared to xenograft: A randomized controlled clinical trial

**Authors and Co-authors details:** Dr Ashish

**Publishing Journal and date:** Indian Journal of Dental Research, January-March 2021

**Dr Ashish Kumar Mishra,** (PG Student) Orthopedics, Indraprastha Apollo Hospitals, Delhi

84. Effect of body mass index on the outcomes of primary total knee arthroplasty up to one year- A prospective cohort study

**Authors and Co-authors details:** Ashish Kumar Mishra, Abhishek Vaish, Raju Vaishya

**Publishing Journal and date:** Research Square, August 2021

---
Mr A Manikandan, Medical Physics, Apollo Proton Cancer Centre

85. Dosimetric impact of random spot positioning errors in intensity modulated proton therapy plans of small and large volume tumors

Authors and Co-authors details: Manikandan Arjunan, Dayananda Shamurailatpam Sharma, Kartikeshwar C Patro, Rajesh Thiyagarajan, Chilukuri Srinivas

Publishing Journal and date: British Journal of Radiology, 2021

86. A novel hybrid 3D dose reconstruction approach for pre-treatment verification of intensity modulated proton therapy plans

Authors and Co-authors details: Manikandan Arjunan, Dayananda Shamurailatpam Sharma, Suryakant Kaushik, Ganapathy Krishnan, Kartikeshwar C Patro, Noufal Mandala Padanthaiyil, T Rajesh and R Jalali

Publishing Journal and date: Physics in Medicine and Biology, 2021

Dr Bhargavi Ilangovan, Radiation Oncology, Apollo Cancer Centre, Chennai

89. Radiotherapy for patients with cardiovascular implantable electronic device-a single institutional experience

Authors and Co-authors details: Bhargavi Ilangovan, Murali Venkatraman Subathira, Balasundaram M Janarthinakani

Publishing Journal and date: IHJ Cardiovascular Case Reports (CVCR), December 2021

90. CNS rosai dorfman disease with IgG4 positive plasma cells

Authors and Co-authors details: Bhargavi Ilangovan, Nikita Mulchandani, Janarthinakani, Jegan Niwas Kannan

Publishing Journal and date: Indian Journal of Medical Case Reports, 2021

Dr Bharath Kumar Tirupakuzhi Vijayaraghavan, Critical Care Medicine, Apollo Hospitals, Chennai

87. Challenges in operationalising clinical trials in India during the Covid-19 pandemic

Authors and Co-authors details: Dr Bharath Kumar Tirupakuzhi Vijayaraghavan

Publishing Journal and date: The Lancet Global Health, December 2021

91. Access to and affordability of cancer medicines: time to focus on the last mile

Authors and Co-authors details: Bhawna Sirohi, Aju Mathew

Publishing Journal and date: Lancet Oncology, October 2021

92. The UK’s contribution to cancer control in low-income and middle-income countries


Publishing Journal and date: Lancet Oncol, September 2021
This is not part of my life plan: A qualitative study on the psychosocial experiences and practical challenges in young adults with cancer age 25 to 39 years at diagnosis.


Publishing Journal and date: Eur J Cancer Care (Engl), 3rd May 2021

The prolonged diagnostic pathway of young adults (Aged 25-39) with cancer in the United Kingdom: Results from the young adult cancer patient journey study

Authors and Co-authors details: Soomers VLMN, Lidington E, Sirohi B, Gonzalez MA, Darlington AS, van der Graaf WTA, Husson O

Publishing Journal and date: J Clin Med, 11th October 2021

Neoadjuvant therapy in borderline resectable pancreatic cancer: Outcomes in the era of changing practices and evolving evidence


Publishing Journal and date: Surgery, December 2021

Describing unmet supportive care needs among young adults with cancer (25-39 Years) and the relationship with health-related quality of life, psychological distress, and illness cognitions

Authors and Co-authors details: Lidington E, Darlington AS, Din A, Stanway S, Banerjee S, Szucs Z, Gonzalez M, Sharma A, Sirohi B, van der Graaf WTA, Husson O

Publishing Journal and date: J Clin Med, 28th September 2021

Ms Bindu Verma, Nursing tutor, Indraprastha Apollo Hospital, Delhi

Prevalence of and factor associated with late first antenatal visit among pregnant mothers in selected hospitals of New Delhi.

Authors and Co-authors details: Ms Bindu, Ms D Maryline Flinsi

Publishing Journal and date: IOSR Journal of Nursing and Health Science (IOSR-JNHS, May 2021

Dr Biplab Sarkar, Medical Physicist, Apollo Hospitals, Kolkata

Personal, social, economic and professional challenges faced by female radiation oncologists in South Asia

Authors and Co-authors details: B Sarkar, A Munshiz, T Ganeshz, K Rastogiz, K Bansalz, A Manikandanx, B K Mohantiz, A Pradhan

Publishing Journal and date: Clinical Oncology, November 2021

Growth characteristics of woman radiation oncologists in South Asia: Assessment of gender neutrality and leadership position

Authors and Co-authors details: Dr Biplab Sarkar

Publishing Journal and date: International Journal of radiation Oncology Biology Physics, November 2021

A mathematical formulation for volume expansions in contouring for radiotherapy planning

Authors and Co-authors details: Anusheel Munshi, Biplab Sarkar, Sayan Paul, Bhavini B Chaudhari, Rohit Singh Chauhan, Tharmarnadar Ganesh, Bidhu Kalyan Mohanti
101. Rotational positional error-corrected linear set-up margin calculation technique for lung stereotactic body radiotherapy in a dual imaging environment of 4-D cone beam CT and ExacTrac stereoscopic imaging

Authors and Co-authors details: Biplab Sarkar, Tharmarnadar Ganesh, Anusheel Munshi, Arjunan Manikandan, Soumya Roy, Saneg Krishnakutty, Latika Chitra, Jean Sathiya, Anirudh Pradhan, Bidhu Kalyan Mohanti

102. In regards to Pokhrel et al. Clinical validation of ring-mounted halcyon Linac for lung SBRT: Comparison to SBRT-dedicated C-arm Linac treatments.

Authors and Co-authors details: Biplab Sarkar, Tanmay Ghosh, Subhra Singhdha Biswal, Tanweer Shahid, Tharmarnadar Ganesh

103. Fear psychosis for the medical physicists profession in the worldwide Covid-19 crisis

Authors and Co-authors details: Mahasin Gazi, Biplab Sarkar

104. Solution of Lagrange's equation of motion form the first principle for volumetric modulated arc therapy delivery

Authors and Co-authors details: Biplab Sarkar, Prasad Basu

105. Daily waiting and treatment times at an advanced radiation oncology setup: A 4-year audit of consecutive patients from single institution

Authors and Co-authors details: Anusheel Munshi, Saneg Krishnakutty, Biplab Sarkar, Tharmar Ganesh, Bidhu K Mohanti

106. Art of publication: A beginner’s guide to understanding the non-linear dynamics between research and publication

Authors and Co-authors details: Biplab Sarkar

107. An incorrect impression of dose versus the ischemic cardiac toxicity risk profile for breast and chest wall radiation therapy

Authors and Co-authors details: Dr Biplab Sarkar

108. Utility of chest X-ray in health checkup program in detecting pleuroparenchymal lesion in a tertiary care hospital

Authors and Co-authors details: Ajai Ramcharan, Kattoju, Arshad Akeel, Monisha Anandan, Balasubramanian Ramakrishnan, Sudhakar Kattoju, Suresh Babu

Publishing Journal and date: Journal of Cancer Research and Therapeutics, 2021

109. Utility of chest X-ray in health checkup program in detecting pleuroparenchymal lesion in a tertiary care hospital

Authors and Co-authors details: Ajai Ramcharan, Kattoju, Arshad Akeel, Monisha Anandan, Balasubramanian Ramakrishnan, Sudhakar Kattoju, Suresh Babu

Publishing Journal and date: Journal of Cancer Research and Therapeutics, 2021
109. Utility of preventive health check-up in an asymptomatic individual with undiagnosed medical renal disease – experience of a tertiary care centre

**Authors and Co-authors details:** Dr Ajai Ramcharan, Kattoju, Dr Arshad Akeel C, Dr Sudhakar K, Dr Balasubramaniam, Dr Phani Krishna Machiraju, Dr Neetu Mariam Alex

**Publishing Journal and date:** Indian Journal of Applied Research, May 2021

**Dr C M Batra,** Endocrinology, Indraprastha Apollo Hospitals, Delhi

110. Steroid-refractory insulin autoimmune syndrome treated with rituximab and continuous glucose monitoring

**Authors and Co-authors details:** Chandar M Batra, Kiran Kumar, Monika Goyal

**Publishing Journal and date:** Cureus, July 2021

**Dr C Venkata S Ram,** Hypertension and Blood Pressure Management, Apollo Jubilee Hills, Hyderabad

111. Correlation between ambulatory blood pressure monitoring and office blood pressure measurement in patients with hypertension: A community study

**Authors and Co-authors details:** C Venkata S Ram, Sameer Dani, Abraham Oomman, Rakesh Gupta, K O Ramachari, G Praveen Kumar, Jayanthi Swaminathan, Sathyarayana Kondati, Ishita Sengupta

**Publishing Journal and date:** Am J Med Sci, June 2021

**Dr C Vijaykumar,** Internal Medicine and Preventive Health Check, Apollo Main Hospitals, Chennai

112. Laboratory profile of adult hemoglobinopathies picked up during routine health check in a tertiary care hospital from South India

**Authors and Co-authors details:** Vijai Kumar Chinnaswami, Udhyaa Balasubramanian, Aishwarya K Marimuthu

**Publishing Journal and date:** IJCP, November 2021

**Dr Charan Reddy,** Cardiology, Apollo Hospitals, Navi Mumbai

113. Challenges to transcatheter aortic valve implantation through femoral access in elderly with peripheral artery disease: A case report

**Authors and Co-authors details:** Rahul R Gupta, K V Charan Reddy, M G Pillai, Shantesh Kaushik, Haridas Munde

**Publishing Journal and date:** Journal of Clinical Cardiology and Cardiovascular Interventions, November 2021

**Dr Chaudhari Dinesh Mohan,** Clinical Associate, Neurology, Indraprastha Apollo Hospitals, Delhi

114. Reticular activating system: An overview

**Authors and Co-authors details:** Neelam Sahu, Dinesh Chaudhari, Pushpendra N Renjen, Swapnil Jain

**Publishing Journal and date:** International Journal of Scientific Research, October - 2021

115. Stroke biomarkers a study of association between mean platelet volume and severity of acute ischemic stroke assessed by modified ranking scale
Authors and Co-authors details: D Chaudhari, P Renjen, C Gupta

Publishing Journal and date: International Journal of Stroke, 2021

116. Bilateral thalamic infarcts-a rare stroke mimic
Uncommon Stroke Disorders and Challenging Cases

Authors and Co-authors details: D Chaudhari, P Renjen

Publishing Journal and date: International Journal of Stroke, 2021

117. Covid-19 associated central nervous system mucormycosis

Authors and Co-authors details: Mishra A, Chaudhari DM, Renjen PN

Publishing Journal and date: Apollo Med, 2021

118. Carotid stenting in patients with renal insufficiency – A case series and review of literature

Authors and Co-authors details: Chaudhari D, Renjen PN, Hota JK, Rastogi H, Ahmad K, Garg S

Publishing Journal and date: Apollo Med, 2021

119. Clinical significance of APTT-antiphospholipid antibody Syndrome presenting as stroke

Authors and Co-authors details: Dinesh Chaudhari, Ramesh Krisnan, Pushpendra N Renjen, Shishir Seth

Publishing Journal and date: International Journal of Scientific Research, June 2021

120. Guillain-barre syndrome following scrub typhus: A rare case

Authors and Co-authors details: Shishir Pandey, Dinesh Chaudhari, Pushpendra N Renjen, Kamal Ahmad

Publishing Journal and date: Ann Indian Acad Neurol, May - June 2021

121. To determine the frequency of left atrial enlargement (LAE) in different subtypes of ischemic stroke based on toast classification (4456)

Authors and Co-authors details: Dinesh Chaudhari, Pushpendra Renjen, Rahul Saini

Publishing Journal and date: Neurology, April 2021

Dr Chinmaya Pani, Medical Oncology, Apollo Hospitals, Bhubaneswar

122. Liquid Biopsy, the hype vs. hope in molecular and clinical oncology

Authors and Co-authors details: Abhishek Mohanty, Sambit K Mohanty, Sipra Rout, Chinmaya Pani

Publishing Journal and date: Seminars in Oncology, Volume 48, June 2021

Ms D Maryline Flinsi, Nursing-Principal, Apollo School of Nursing, Delhi

123. Prevalence of COVID infection among vaccinated vs nonvaccinated RNs working in selected hospital of Delhi

Authors and Co-authors details: Ms D Maryline Flinsi, Ms Rohini Sharma

Publishing Journal and date: IOSR Journal of Nursing and Health Science (IOSR-JNHS), October 2021

Dr Debabrata Chakraborty, Neurology, Apollo Hospitals, Kolkata

124. Is high blood pressure always on obstacle in stroke thrombolysis?

Authors and Co-authors details: Debabrata Chakraborty, Suvadip Maiti, Sadanand Dey, Sanjay Bhaumik
125. A Scary tale of meningoencephalitis where aetiology remained elusive; but finally, patient had the "Last Laugh"

Authors and Co-authors details: Chakraborty Debabrata, Dey Sadanand, Pramanick Gobinda, Das Abhiji

Publishing Journal and date: Neurol India, May-June 2021

126. Assessment of discrepancies between follow-up infarct volume and 90-day outcomes among patients with ischemic stroke who received endovascular therapy

Authors and Co-authors details: Dr Debabrata Chakraborty

Publishing Journal and date: JAMA Netw Open, November 2021

127. An interesting case of acute stroke: when many things went wrong, but the patient laughed at last!

Authors and Co-authors details: Debabrata Chakraborty, Nirmalya Ray, Sadanand Dey, Sanjay Bhaumik

Publishing Journal and date: Journal of stroke medicine, 2021

128. When doom is vincible but imperceptible

Authors and Co-authors details: Debabrata Chakraborty, Sandip Pal IP

Publishing Journal and date: Indian Journal of Neurosciences, 2021

129. Stroke thrombolysis in difficult circumstances: When benefit may not overrule Risk

Authors and Co-authors details: Debabrata Chakraborty, Kishalaya Karan, Aditya Choudhary, Sadanand Dey


130. Possible interference in protein – Protein interaction as a new approach in micro inhibition of respiratory pathogens on nasal– oral epithelium: An early on-screen study with reference to SARS-CoV-2-ACE2 binding interference

Authors and Co-authors details: Debatrosh Datta, Suyash Pant, Devendra

Publishing Journal and date: Biorxiv Preprint Doi, December 2021

131. Therapeutic anticoagulation with heparin in critically ill patients with Covid-19

Authors and Co-authors details: Dr Devachandran


132. Therapeutic anticoagulation with heparin in noncritically ill patients with Covid-19

Authors and Co-authors details: Dr Devachandran

133. Acute and subacute toxicity studies of ethanolic extract of mirabilis Jalapa Linn in Wistar albino rats

**Authors and Co-authors details:** Senthil Kumari C, Dhanasekhar Kesavelu

**Publishing Journal and date:** Asian Journal of Pharmaceutical and Clinical Research, 2021

134. Clinical profiling of a chicken-based formula in an Indian Children Hospital

**Authors and Co-authors details:** Dhanasekhar Kesavelu, VS Lekha

**Publishing Journal and date:** Asian Journal of Pediatric Research, 2021

135. Acute myopathy leading to severe rhabdomyolysis: an unusual presentation

**Authors and Co-authors details:** Dr Dhanasekhar Kesavelu

**Publishing Journal and date:** Sri Lanka Journal of Child Health, 2021

136. Review on the role and recommendation for dietary fibers in childhood constipation

**Authors and Co-authors details:** Dr Dhanasekhar Kesavelu, Dr Nithya Franklin

**Publishing Journal and date:** International Journal of Medical Science and Clinical Invention, 2021

137. Role of vitamin D for oral health and overall health

**Authors and Co-authors details:** K Sheela Dhanasekhar Kesavelu

**Publishing Journal and date:** Indian Journal of Forensic Medicine and Toxicology, 2021

138. The nutritional preponderance and propensity to COVID-19 in children

**Authors and Co-authors details:** Dhanasekhar Kesavelu, Lekha VS, Sarah Nalliannan

**Publishing Journal and date:** Journal of Gastroenterology and Hepatology Reports, Volume 2: Issue 4: Page 1-2, 20, 2021

139. Outcomes of dilation of recalcitrant pancreatic strictures using a wire-guided cystotome

**Authors and Co-authors details:** Sridhar Sundaram, Dhaval Choksi, Aditya Kale, Suprabhat Giri, Biswaranjan Patra, Shobna Bhatia and Akash Shukla

**Publishing Journal and date:** Korean Society of Gastrointestinal Endoscopy, 4th March 2021

140. A novel autologous stem cell procedure for the treatment of aplastic anaemia using reprogrammed mature adult cells: A pilot study

**Authors and Co-authors details:** Ilham Saleh Abuljadayel, Dipika Mohanty, Rajendar K Sur

**Publishing Journal and date:** Indian J Med Res, 2021

141. Prenatal diagnosis of hemoglobinopathy by chorionic Villi sampling (CVS) in Odisha- The first report

**Authors and Co-authors details:** Maheswar Panda, Dipika Mohanty, Manas Ranjan Kar, Suryanarayan Mohanty

**Publishing Journal and date:** International Journal of Surgery and Invasive Procedures, 2021

142. Alteration in renal function and structure in cases of sickle cell anemia in India during Vaso-Occlusive crisis
143. Therapeutic plasma exchange and cytapheresis in various disorders – experience from a tertiary care centre in East India

**Authors and Co-authors details:** Pandey Jyotsna, Mohanty Dipika, Mohapatra Nachiketa, Das Sreeya Henry

**Publishing Journal and date:** Journal of Hematology and Hemotherapy, Volume 5: Issue 1, 2020

144. Efficacy and safety of cholangioscopy guided laser lithotripsy for difficult bile duct stones – A prospective study from a tertiary care center in Eastern India

**Authors and Co-authors details:** Dipika Mohanty, Pradhan PK, Mohanty D, Mishra SC, Patnaik B, Mohanty NK

**Publishing Journal and date:** International Journal of Surgery and Invasive Procedures, 2021

**Dr Gajanan A Rodge,** (Associate Consultant) Gastroenterology-Medical, Apollo Hospitals, Kolkata

145. Quantification of liver fat by MRI-PDFF imaging in patients with suspected non-alcoholic fatty liver disease and its correlation with metabolic syndrome, liver function test and ultrasonography

**Authors and Co-authors details:** Goenka MK, Shah BB, Rodge GA, Rai VK, Afzalpurkar S, Agarwal R, Goenka U Arab

**Publishing Journal and date:** Journal of Gastroenterology, June 2021

146. Management of refractory variceal bleed in cirrhosis

**Authors and Co-authors details:** Rodge GA, Goenka U, Goenka MK

**Publishing Journal and date:** Journal of Clinical and Experimental Hepatology, September 2021

147. Hemoclips during motorized spiral enteroscopy- A unique case

**Authors and Co-authors details:** Rodge GA, Ramchandani M, Bharat Shah B, Afzalpurkar S, Bhageerath Raj D, Goenka MK

**Publishing Journal and date:** Indian Journal of Gastroenterology, June 2021

148. Non-invasive assessment of liver disease in patients with non-alcoholic fatty liver disease

**Authors and Co-authors details:** Rodge GA, Goenka MK

**Publishing Journal and date:** Apollo Medicine, December 2021

**Dr Geetanjali Sahariah Khound,** Pediatrics, Apollo Hospitals, Guwahati

149. 1544 Unusual surgical emergencies encountered in paediatric practice, their presentations, management and outcome in a tertiary care centre in Guwahati

**Authors and Co-authors details:** Geetanjali Sahariah Khound, Dibyajyoti Bora, Kamal Kumar Kathar, Rekha Khaund Borkotoky

**Publishing Journal and date:** BMJ's Archives of Diseases in Childhood, 2021
150. A silent large left ventricular apical pseudoaneurysm presenting as congestive heart failure

Authors and Co-authors details: Gopal Chandra Ghosh, Anoop G Alex

Publishing Journal and date: Heart views, 2018

151. Anomalous left coronary artery from pulmonary artery

Authors and Co-authors details: Gopal Chandra Ghosh, John Jose, Kunal Gururani

Publishing Journal and date: Heart views, 2022

152. Cardiovascular toxicities of immune checkpoints inhibitors

Authors and Co-authors details: Somedeb Ball, Rakim K Ghosh, Sariya Wongsaengsak, Dhrubajyoti Bandyopadhyay, Gopal Chandra Ghosh, Wilbert S Aronow, Gregg C Fonarow, Daniel J Lenihan Deepak L

Publishing Journal and date: Journal of the American College of Cardiology, 2019

153. Fourteen-year-old boy with decreased appetite and pedal swelling

Authors and Co-authors details: Dr Gopal Chandra Ghosh

Publishing Journal and date: Heart, 2019

154. Peculiar mechanical complication of myocardial infarction

Authors and Co-authors details: Pratheesh G Mathen, Gopal Chandra Ghosh, Viji Samuel Thomson

Publishing Journal and date: Heart Asia, 2022

155. Sodium glucose co-transporter 2 inhibitors and heart failure

Authors and Co-authors details: Rakim K Ghosh, Gopal Chandra Ghosh, Manasvi Gupta, Dhrubajyoti Bandyopadhyay, Tauseef Akhter, Prakash Deedwania, Carl J Lavie, Gregg C Fonarow, Ashish Aneja

Publishing Journal and date: American Journal of Cardiology, 2022

Dr Harimohan Singh, Nursing- Principal, Child Health Nursing, Apollo Hospitals, Ahmedabad

156. Effectiveness of planned teaching program regarding knowledge related medication error among staff nurses in selected hospitals of Ahmedabad

Authors and Co-authors details: Dr Hari Mohan Singh, Vijesh Patel, Susan Misquitta, Lyju Vargish, Latha P

Publishing Journal and date: International Journal of Advance Research in Medical Surgical Nursing, 2021

157. A study to assess the effectiveness of planned teaching programme regarding stem cells among eligible couples in selected areas of Ahmedabad

Authors and Co-authors details: Dr Hari Mohan Singh, Hina Patel, Hemangi Chaudhari

Publishing Journal and date: International Journal of Advance Research, November 2021

158. A study to assess the effectiveness of pranayama to relieve stress among the people of selected areas of Ahmedabad

Authors and Co-authors details: Dr Hari Mohan Singh, Vijesh Patel
Publishing Journal and date: International Journal of Advance Research, November 2021

**Dr Hena Butta**, Microbiology, Indraprastha Apollo Hospitals, Delhi

159. A retrospective analysis of the prosthetic joint infections of the hip and knee at a tertiary care center of India

Authors and Co-authors details: Suresh Babu, Raju Vaishya, Hena Butta, Raman Sardana, Leena Mehdiratta, Yashpal Gulati, Yatinder Khambard, Havind Tandon

Publishing Journal and date: Apollo Medicine, 2021

160. Epidemiological profile and antifungal susceptibility pattern of Trichosporon species in a tertiary care hospital in Chandigarh, India

Authors and Co-authors details: Vibha Mehta, Jagdish Chander, Neelam Gulati, Nidhi Singla, Hena Vasdeva, Raman Sardana, Awadhesh Kumar Pandey

Publishing Journal and date: Curr Med Mycol, 2021

161. Magnusiomyces capitatus: rising colonisation, a concern?

Authors and Co-authors details: Nidhi Singla, Vibha Mehta, Neelam Gulati, Hena Butta, Deepak Agarwal, Raman Sardana, Jagdish Chander

Publishing Journal and date: IJPPE, August 2021

162. Nature - The great leveller: It is a way to end the Covid era?

Authors and Co-authors details: Raman Sardana, Leena Mehdiratta, Hena Butta

Publishing Journal and date: Journal of Patient Safety and Infection Control, May-August 2021

163. Cladophialophora bantiana brain abscess with lymphadenitis

Authors and Co-authors details: Vinit Suri, Shishir Pandey, Nidhi Goyal, Hena Ran

Publishing Journal and date: BMJ Case Reports, November 2021

**Dr Himaaldev G J**, Critical care, Apollo Hospitals, Seshadripuram

164. STEMI in young befogged by aluminium phosphide toxicity-role of emco as salvage therapy and trimetazidine, magnesium to suppress arrhythmias

Authors and Co-authors details: Gunavanthi Jayakumar Himaaldev, Chaitra C Rao

Publishing Journal and date: Indian Journal of Critical Care Medicine, Volume 24: Issue 8, August 2020

165. Intestinal mucormycosis in an adult with H1N1 pneumonia on extracorporeal membrane oxygenation

Authors and Co-authors details: Himaal Dev GJ, Pradeep M Venkategowda, Anand R Sutar, Shankar

Publishing Journal and date: Annals of Cardiac Anaesthesia, 2021

166. A retrospective observational study of door to balloon time in patients undergoing primary coronary angioplasty at tertiary care hospital during the covid pandemic

Authors and Co-authors details: Syed Masood Ahmed, Himaal Dev, Vikram B Kolhari, Purvik B, Pradeep M Venkategowda, Arun Kumar S

Publishing Journal and date: International Journal of Advances in Case Reports, 2021
Dr I Sathyamurthy, Cardiology, Apollo Main Hospitals, Chennai

167. Can OCT change the therapeutic strategy in ACS due to plaque erosion?

Authors and Co-authors details: I Sathyamurthy, G Sengottuvelu

Publishing Journal and date: Indian Heart Journal, 2021

168. Myocardial infarction following marijuana consumption in a young male

Authors and Co-authors details: Sathyamurthy Immaneni, Narra Lavanya, K Kirubakaran, K N Srinivasa

Publishing Journal and date: Journal of Indian College of Cardiology, 2021

169. Post CABG myocardial ischemia and infarction - A review

Authors and Co-authors details: I Sathyamurthy, K Jayanthi

Publishing Journal and date: Journal of Indian College of Cardiology, 2021

170. Angiographic profile and therapeutic approach of prior coronary artery bypass graft patients presenting with acute coronary syndromes

Authors and Co-authors details: Sathyamurthy Immaneni, T Manikandan, K Kirubakaran, K N Srinivasan, Rajeswari Nayak, Abraham Oomman, K Pramod Kumar, Sengottuvelu Gunasekaran

Publishing Journal and date: Journal of Indian College of Cardiology, 2021

Dr Indumathi Daivam, Anaesthesiology, Apollo Proton Cancer Centre

172. Challenges of repetitive sedation in a 16-month-old child undergoing proton beam therapy

Authors and Co-authors details: Daivam I, Murugesan A, Panda PK, Jalali R

Publishing Journal and date: Indian J Anaesth, 2021

Dr IPS Kochar, Pediatric and Adolescent, Endocrinology, Indraprastha Apollo Hospitals, Delhi

173. Effects of early initiation of growth hormone therapy on different auxological parameters in growth hormone deficient children: experience from an Indian tertiary care center

Authors and Co-authors details: Inderpal S Kochar, Smita Ramachandran, Aashish Sethi

Publishing Journal and date: International Journal of diabetes and endocrinology, 2021

174. Use of growth hormone treatment in skeletal dysplasia - A review

Authors and Co-authors details: Inderpal Singh Kochar, Rashim Chugh

Publishing Journal and date: Pediatric Endocrinology review, 2020

175. Empirical sulphonylurea in neonatal diabetes: results from a tertiary care center
176. Dengue vaccines update

Authors and Co-authors details: Dr J Shyamala

Publishing Journal and date: Indian Journal of Practical Pediatrics, 2021

Dr J Shyamala, Pediatrics, Apollo Children’s Hospitals, Chennai

177. Study of likelihood of infection with Covid 19 based on source of exposure to infection among hospital staff

Authors and Co-authors details: Dr Jayalakshmi TK, Dr Bhumika Madhav, Dr Narendra Patil, Dr Dipti Dhanwate, Dr Prakash Cherath, Dr Dhanaji Revande, Dr Jay Shinde, Dr Monhiki Pasweti


Dr Jayalakshmi TK, Pulmonology, Apollo Hospitals, Navi Mumbai

178. Lobar pneumonia in Covid-19: A case report of two patients for an atypical imaging pattern

Authors and Co-authors details: Parmar J, Patel T Shah S, Prasad SB Desai M, Kothari J Dubey P, Singh M Chaudhari N, V Lobar

Publishing Journal and date: Current trends in medical and Clinical case Reports, 2021

Dr Jitendra Parmar, Radiology, Apollo Hospitals, Ahmedabad

179. Utility of various inflammatory markers in predicting outcomes of hospitalized patients with COVID-19 pneumonia: A single-center experience

Authors and Co-authors details: Aishwarya K Marimuthu, Monisha Anandhan, Lakshmikanthan Sundararajan, Jagadeesh Chandrasekara, Balasubramaniam Ramakrishnan

Publishing Journal and date: Lung India, Volume 38: Issue 5, September-October 2021

Dr K M Aishwarya, (DNB Resident) Internal Medicine, Apollo Main Hospitals, Chennai

180. Effect of internal migration on diabetes and metabolic abnormalities in India- The ICMR-INDIAB study

Authors and Co-authors details: Dr Kalpana

Publishing Journal and date: Journal of Diabetes and its complications, 2021

Dr Kalpana Dash, Endocrinology, Apollo Hospitals, Bilaspur

181. Local recurrence with intersphincteric resection in adverse histology rectal cancers. A retrospective study with competing risk analysis

Authors and Co-authors details: Desouza AL, Kazi M, Verma K, Sugoor P, Mahendra BK, Saklani AP ANZ

Publishing Journal and date: Journal of Surgery, August 2021

Dr Kamlesh Verma, Surgical Oncology, Apollo Hospitals, Lucknow
Dr Kashi Nath Prasad, Microbiology, Apollo Medics Hospitals, Lucknow

182. Genetic characterisation of colistin resistant klebsiella pneumoniae clinical isolates from North India

Authors and Co-authors details: Sanjay Singh, Ashutosh Pathak, Mohibur Rahman, Avinash Singh, Soumyabrata Nag, Chinmoy Sahu and Kashi Nath Prasad

Publishing Journal and date: Frontiers in Cellular and Infection Microbiology, June 2021

183. Complete genome sequence of an extensively drug-resistant Pseudomonas aeruginosa ST773 clinical isolate from North India

Authors and Co-authors details: Sanjay Singha, Chanakya Pachi Pulusub, Ashutosh Pathaka, Bulagonda Eswarappa Pradeepb, Kashi Nath Prasad


184. My experience on taeniasis and neurocysticercosis

Authors and Co-authors details: Kashi Nath prasad

Publishing Journal and date: Tropical Parasitology, October 2021

Dr Kavita Somani, Laboratory Medicine, Apollo Medics Hospital, Lucknow

185. Incidentally detected muscular sarcocystis with Ewing's sarcoma: a case report of a rare combination

Authors and Co-authors details: Kavita Somani, Pretty Singh

Publishing Journal and date: Apollo Medicine, 8th March 2021

Dr Kiran Godse, Dermatology, Apollo Hospitals, Navi Mumbai

186. Skin writometer: A novel instrument for assessing provocation threshold in patients with symptomatic dermographism

Authors and Co-authors details: Kiran Godse, Gauri Godse, Anant Patil IP

Publishing Journal and date: Indian Journal of Clinical and Experimental Dermatology, 2021

Dr Kirty Nahar, Obstetrics and Gynaecology, Apollo Hospitals, Ahmedabad

187. Prosthetic mitral valve thrombosis in a known case of rheumatic heart disease at 37 weeks pregnancy: a case report

Authors and Co-authors details: Kirty Nahar, Nikita Nahar


188. Radical vulvectomy for a rare case of squamous cell carcinoma vulva: a case report

Authors and Co-authors details: Kirty Nahar, Nikita Nahar


Dr Koushik Lahiri, Dermatology, Apollo Hospitals, Kolkata

189. Role of topical nadifloxacin as an empirical treatment in patients with skin and soft-tissue infections in India: A review and consensus

Authors and Co-authors details: Dr Koushik

Publishing Journal and date: Cosmoderma, November 2021
Dr Kripesh Ranjan Sharma, Pulmonary Medicine, Apollo Hospitals, Guwahati

190. High proportion of drug resistant isolates in adult community acquired pneumonia from Northeast India: A hospital-based study Indian Chest Society

Authors and Co-authors details: Deepjyoti Kalita, Ridip Kumar Sarma, Kripesh Ranjan Sharma, Sangeeta Deka

Publishing Journal and date: Lung India, Volume 38: Issue 5, September-October 2021

Dr Krishna Kumar, ENT, ASH OMR

191. Fungus Cerebri - A Case Report

Authors and Co-authors details: Dr Krishna Kumar

Publishing Journal and date: Acta Scientific Otolaryngology, October 2021

Dr M Neeraja, Transplant Immunology, Apollo Jubilee Hills, Hyderabad

192. Identification of the novel allele, HLA-B*44:256, in an individual from West Bengal in Eastern India

Authors and Co-authors details: Mamidi Neeraja, Rohit Iyyapu, Neerudi Raj Kumar, Gorle Manoj, Raji Raju Tatapudi

Publishing Journal and date: HLA: Immune Response Genetics, October 2021

Dr Madhuri Khilari, Neurology, Apollo Jubilee Hills, Hyderabad

193. Applications of artificial intelligence in epilepsy

Authors and Co-authors details: Pradeep Pankajaksh Nair, Rajeswari Aghoram, Madhuri Laxman Khilari

Publishing Journal and date: International Journal of Advanced Medical and Health Research, 2021

194. Brivaracetam: How well does it fare as an anti-epileptic? A review

Authors and Co-authors details: Madhuri Khilari, Pradeep P Nair, Brajesh Kumar Jha

Publishing Journal and date: Neurology India, Neurological Society of India, 2021

195. Clinical conundrum: Status Epilepticus culminating into acute dystonia myoclonus

Authors and Co-authors details: Madhuri Khilari, Praveen Kumar Sharma

Publishing Journal and date: BMJ Case Rep, 2021

196. Tacrolimus induced diffuse pontine hyperintensity in status epilepticus: a rare entity

Authors and Co-authors details: Madhuri Khilari, Dr Niranjan Panigrahi

Publishing Journal and date: Advances in Clinical Neuroscience and Rehabilitation, Volume 20, 2020

Dr Mallika Goyal, Ophthalmology, Apollo Jubilee Hills, Hyderabad

197. Annum (2021): Bilateral multifocal choroiditis following COVID-19 vaccination

Authors and Co-authors details: Mallika Goyal, Somasheila I Murthy, and Sridhar Annum

Publishing Journal and date: Ocular Immunology and Inflammation, 3rd August 2021

198. Response comment on: Retinal manifestations in patients following Covid 19 infection

Authors and Co-authors details: Mallika Goyal, Somasheila I Murthy, Sridhar Annum
Publishing Journal and date: Indian Journal of Ophthalmology, Volume 69, October 2021

199. Bilateral multifocal choroiditis following Covid-19 vaccination, ocular immunology and inflammation

Authors and Co-authors details: Mallika Goyal, Somasheila I Murthy

Publishing Journal and date: Ocular Immunology and Inflammation, Volume 29: Issue 4, 2021

200. Retinal manifestations in patients following COVID-19 infection: A consecutive case series

Authors and Co-authors details: Mallika Goyal, Somasheila I Murthy, Sridhar Annum

Publishing Journal and date: Indian J Ophthalmol, May 2021

201. Infectious scleritis due to Methicillin-resistant staphylococcus aureus after dengue viral fever

Authors and Co-authors details: Goyal M, Murthy SI

Publishing Journal and date: Ocul Immunol Inflamm, 8th April 2021

Dr Mamta Soni, Hematology and clinical pathology, Apollo Main Hospitals, Chennai

202. Significance of RDW in predicting mortality in COVID-19-An analysis of 622 cases

Authors and Co-authors details: Mamta Soni, Ram Gopalakrishnan

Publishing Journal and date: Int J Lab Hematol, 2021

203. Original Article: Evaluation of eosinopenia as a diagnostic and prognostic indicator in COVID-19 infection

Authors and Co-authors details: Mamta Soni

Publishing Journal and date: Int J Lab Hematol, 2021

204. Quantification of haemophagocytes on bone marrow aspirate smears and its correlation with the clinical outcomes- A prospective study

Authors and Co-authors details: Mamta Soni, Supraja Sundaram, Sridhula Kesavan

Publishing Journal and date: National Journal of Laboratory Medicine, Volume 10, July 2021

205. Diagnosis of hyperoxalosis on bone marrow aspirates smears

Authors and Co-authors details: Mamta Soni, Maya Menon, Shruithi Vasudevan, Vijayshree Govindarajan

Publishing Journal and date: Apollo Medicine, 2021

206. Leukocyte morphological changes in COVID-19, a peripheral smear study and analysis at a tertiary health care centre in India

Authors and Co-authors details: Gokula Kannan, Mamta Soni

Publishing Journal and date: Apollo Medicine, 2021

Dr Manjula Rao, Breast Surgical Oncology, Apollo Proton Cancer Centre

207. Locally advanced breast cancer—A narrative review of management in the Indian scenario

Authors and Co-authors details: Manjula Rao, Manikanadan Dhanushkodi

Publishing Journal and date: Indian Journal of Medical and Paediatric Oncology, 2021
Dr Manoj Singh, Critical care medicine and pulmonology, Apollo Hospitals, Ahmedabad


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Publishing Journal and date: Indian Journal of Critical Care Medicine, November 2020


Authors and Co-authors details: Manoj Singh

Publishing Journal and date: Indian Journal of Critical Care Medicine, November 2020

210. Variation in therapeutic strategies for the management of severe COVID-19 in India: A nationwide cross-sectional survey

Authors and Co-authors details: Dr Manoj

Publishing Journal and date: Int J Clin Pract, 2021

Dr Mekala L, (Jr Consultant) Histopathology, Apollo Cancer Centre, Chennai

211. What makes it a primary ovarian pseudomyxoma peritonei when there are mucinous tumours of both ovary and appendix

Authors and Co-authors details: Mekala Lakshminarayanan, Ann Kurian, Kumar Gubbala

Publishing Journal and date: Indian Journal of Gynecologic Oncology, 2021

212. Giant De-Differentiated liposarcoma of the ascending colon – A rare entity

Authors and Co-authors details: N Sunil, DR Raghavendra, LMekala, PK Reddy, JKA Jameel

Publishing Journal and date: Transplant Immunology, October 2021

Dr Mohit Chowdhry, Transfusion Medicine, Indraprabha Apollo Hospitals, Delhi

213. A case of Bickerstaff encephalitis with overlapping gullian barre syndrome in a pediatric patient treated with therapeutic plasma exchange

Authors and Co-authors details: Mohit Chowdhry, Soma Agrawal, Minu lekshmi S

Publishing Journal and date: Transfusion and Apheresis Science, September 2021

214. Changes in hematological parameters post plateletpheresis: Single center study from North India

Authors and Co-authors details: Saroj Rajput, Raj Nath Makroo, Mohit Chowdhry, Uday K. Thakur

Publishing Journal and date: Transfusion and Apheresis Science, September 2021

215. Prospective multi-centric study to analyze pre-transplant compatibility algorithm for live-related donor kidney transplant in Indian setting: The Delhi approach

Authors and Co-authors details: Aseem K Tiwari, Anil Handoo, Mohit Choudhary, Simmi Mehra, Virender Bacchas

Publishing Journal and date: Transplant Immunology, October 2021

216. Red blood cell exchange in sickle cell disease: A single center experience

Authors and Co-authors details: Mohit Chowdhry, Soma Agrawal, Ankita Sharma, Uday Kumar Thakur

Publishing Journal and date: Global Journal of Transfusion Medicine, November 2021
Dr Mukesh Sharma, Neurology, Apollo Hospitals, Ahmedabad

217. Single-center experience using the Stent Retriever for the treatment of acute ischemic stroke with distal arterial occlusions (M2, M3, A2, and P2 segments)

Authors and Co-authors details: Mukesh Sharma, Sucheta Mudgerikar, Anand Alurkar, Aashka Ponda, Tharpal Maheshwary

Publishing Journal and date: Journal of Vascular and Interventional Neurology, Volume 12, 2021

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218. Clinicoradiological outcome of 3 or more levels of anterior cervical corpectomy and reconstruction

Authors and Co-authors details: Macherla Haribabu Subramaniam, Muralidharan Venkatesan


219. Resurgence of the role of computed-tomography myelogram in the era of MRI for surgical decision-making of lumbar degenerative disc disorder Keyur

Authors and Co-authors details: Kantilal Akbari, Vigneshwara Badikillaya, Muralidharan Venkatesan, Rochita V Ramanan, Sajan K Hegde


220. Efficacy of anterior vertebral body tethering in skeletally mature children with adolescent idiopathic scoliosis: a preliminary report

Authors and Co-authors details: Sajan K Hegde, Muralidharan Venkatesan, Keyur Kantilal Akbari, Vigneshwara Badikillaya


221. Comparative analysis of unilateral versus bilateral instrumentation in TLIF for lumbar degenerative disorder: Single center large series

Authors and Co-authors details: Vigneshwara Badikillaya, Keyur Akbari, Pramod Sudarshan, Hardik Suthar, Muralidharan Venkatesan, Sajan K Hegde


Dr Murtuza I Laxmidhar, Oncology-Surgical, Apollo Hospitals, Ahmedabad

222. A rare case of maxillary brown tumour as primary presentation of the parathyroid carcinoma

Authors and Co-authors details: Fehmida Laxmidhar, Bhavin P Vadodariya, Sanjiv Shah, Murtuza I Laxmidhar

Publishing Journal and date: International Journal of Scientific Research, October 2021

Dr N Ramakrishnan, Critical Care Services and Sleep Medicine, Apollo Main Hospital, Chennai

223. Multivariable mortality risk prediction using machine learning for Covid-19 patients at admission (AICOVID)

Authors and Co-authors details: Sujoy Kar, Rajesh Chawla, Sai Praveen Haranath, Suresh Ramasubban, Nagarajan Ramakrishnan, Raju Vaishya, Anupam Sibal, Sangita Reddy

Publishing Journal and date: Nature Scientific Reports, 2021

224. Standard care versus awake prone position in adult non intubated patients with acute hypoxemic respiratory failure secondary to covid-19 infection—a multicentre feasibility randomized controlled trial
225. Practice patterns and outcome of extracorporeal membrane oxygenation therapy for severe acute respiratory distress syndrome in Indian ICUs

Authors and Co-authors details: Devachandran Jayakumar, Pratheema Ramachandran, Ebenezer Rabindrarajan, Bharath Kumar Tirupakuizhi Vijayaraghavan, Nagarajan Ramakrishnan, Ramesh Venkataraman

Publishing Journal and date: Journal of Intensive Care Medicine, 2021

226. Chronic critical illness: Are we just adding years to life?

Authors and Co-authors details: Nagarajan Ramakrishnan

Publishing Journal and date: Indian Journal of Critical Care Medicine, 2020

227. Intensive care in India in 2018–2019: The second Indian intensive care case mix and practice patterns study

Authors and Co-authors details: Dr Ramakrishnan

Publishing Journal and date: Indian Journal of Critical Care Medicine, Volume 25: Issue 10, October 2021

228. Melioidosis in critical care: A review

Authors and Co-authors details: Sowmya Sridharan, Isabella Princess, Nagarajan Ramakrishnan

Publishing Journal and date: Indian Journal of Critical Care Medicine, Volume 25: Issue Suppl 2, May 2021

229. Nutrition therapy in patients requiring noninvasive ventilation in the intensive care unit: feasibility, tolerance, and complications

Authors and Co-authors details: Gaurav Sharma, Ramesh Venkataraman, Senthil Kumar Rajagopal, Nagarajan Ramakrishnan, Babu K Abraham, Raymond Dominic Savio

Publishing Journal and date: Indian Journal of Respiratory Care, 2021

230. COVID-19 symptoms at hospital admission vary with age and sex: results from the ISARIC prospective multinational observational study

Authors and Co-authors details: ISARIC Clinical Characterisation Group 1

Publishing Journal and date: Infection, 2021

231. Incidence and impact of healthcare-associated infections on patients primarily admitted with sepsis and non-sepsis diagnoses

Authors and Co-authors details: Chintamani Abhishek, Bala Prakash, Babu K Abraham, Senthil Kumar, Nagarajan Ramakrishnan, Ramesh Venkataraman

Publishing Journal and date: Indian J Crit Care Med, March 2021

232. Operationalisation of the randomized embedded multifactorial adaptive platform for COVID-19 trials in a low and lower-middle income critical care learning health system

Authors and Co-authors details: Dr Ramakrishnan

Publishing Journal and date: Wellcome Open Research, 2021
233. Impact of Covid-19 on non-Covid intensive care unit service utilization, case mix and outcomes: A registry-based analysis from India

Authors and Co-authors details: Dr Ramakrishnan

Publishing Journal and date: Wellcome Open Research, 2021

234. Repurposed antiviral drugs for COVID-19 – interim WHO SOLIDARITY trial results

Authors and Co-authors details: Dr V Ramasubramanian, Dr N Ramakrishnan, Dr R Ebenezer, Dr Suresh Kumar, Dr S Krishnamoorthy, Dr Bharath Kumar Tirupakuzhi Vijayaraghavan

Publishing Journal and date: The New England Journal of Medicine, December 2020

235. The value of open-source clinical science in pandemic response: lessons from ISARIC

Authors and Co-authors details: ISARIC Clinical Characterisation Group 1

Publishing Journal and date: The lancet infectious diseases, December 2021

236. Estimates of sepsis prevalence and outcomes in adult intensive care unit patients in India: a cross-sectional study

Authors and Co-authors details: Dr Bharath Kumar Tirupakuzhi Vijayaraghavan

Publishing Journal and date: Chest. 2021

237. ISARIC clinical data report clinical data report

Authors and Co-authors details: Dr Devachandran Jayakumar, Dr Pavan Kumar Vecham, Dr Bharath Kumar Tirupakuzhi Vijayaraghavan, Dr Nagarajan Ramakrishnan

Publishing Journal and date: BMJ Yale medRxiv, July 2021

Dr Nandini Sethuraman, Microbiology, Apollo Main Hospitals, Chennai

238. Multicenter epidemiologic study of coronavirus disease–associated mucormycosis, India

Authors and Co-authors details: Dr Nandini

Publishing Journal and date: Emerging Infectious Diseases, September 2021

239. Treating COVID-19: are we missing out the window of opportunity?

Authors and Co-authors details: Jeremiah Sundararaj Stanleyraj, Nandini Sethuraman, Rajesh Gupta, Sohanlal Thiruvoth, Manisha Gupta, Akihide Ryo

Publishing Journal and date: J Antimicrob Chemother, 2021

240. Evaluation of Matrix-assisted laser desorption/ionization Time-of flight Mass spectrometry (MALDI TOF MS) and VITEK 2 in routine microbial identification

Authors and Co-authors details: Anitha Madhavan, Arun Sachu, Nandini Sethuraman, Anil Kumar and Jayalakshmi Vasudevapanicker

Publishing Journal and date: Ghana Med J, 2021

241. Talaromyces marneffei outside endemic areas in India: an emerging infection with atypical clinical presentations and review of published reports from India

Authors and Co-authors details: Nandini Sethuraman, M A Thirunarayan, Ram Gopalakrishnan, Shivaprakash Rudramurthy, V Ramasubramanian, Ashok Parameswaran

Publishing Journal and date: Mycopathologia, October 2020
242. Interpreting diagnostic tests for SARS-CoV-2

Authors and Co-authors details: Nandini Sethuraman, Sundararaj Stanleyraj, Jeremiah Akihide Ryo

Publishing Journal and date: JAMA, 9th June 2020

Dr Naveen Hedne, Surgical Oncology, Apollo Proton Cancer Centre

243. Validation of a point-of-care optical coherence tomography device with machine learning algorithm for detection of oral potentially malignant and malignant lesions


Publishing Journal and date: Cancers (Basel), 17th July 2021

Dr Nidhi Gupta, Neuroanesthesia, Indraprastha Apollo Hospitals, Delhi

244. Women Representation as first and corresponding authors in neuroanesthesiology and neurocritical care journals: A retrospective analysis

Authors and Co-authors details: Gupta Nidhi, Banerjee Shraya, Choudhury Kalyanpury, Prabhakar Hemanshu

Publishing Journal and date: Journal of Neurosurgical Anesthesiology, October 2021

Dr Nikhil P J Theckumparampil, Cardio thoracic surgery, Apollo Hospitals, Vanagaram

245. Stages hybrid convergent procedure for persistent atrial fibrillation: Single center outcomes from a community hospital

Authors and Co-authors details: Dr Nikhil

Publishing Journal and date: Circulation, November 2021

Dr Nikhil Sonthalia, Gastroenterology, Apollo Hospitals, Kolkata

246. Padlock clip-assisted endoscopic full-thickness resection of a duodenal neuroendocrine tumour: a safe alternative to endoscopic submucosal dissection

Authors and Co-authors details: Nikhil Sonthalia, Bhavik Bharat Shah, Mahesh Kumar Goenka

Publishing Journal and date: Endoscopy, 2021

247. Endoscopic ultrasonography-guided rendezvous technique for removal of a long biliary ascariasis: a challenging case

Authors and Co-authors details: Nikhil Sonthalia, Gajanan Ashokrao Rodge, Bhavik Bharat Shah, Vikram Patil, Mahesh Kumar Goenka

Publishing Journal and date: Video GI Endoscopy, 2021

Dr Nitesh Jain, Urology, Apollo Main Hospital, Chennai

248. Non urological cause of bilateral hydronephrosis

Authors and Co-authors details: Jatin Soni, Nitesh Jain, Mathisekaran Thangarasu, Sanjay Prakash

Publishing Journal and date: Indian Journal of Urology, 2021

249. Pelvic lipomatosis - rare benign disease - tips and tricks for robotic management

Authors and Co-authors details: Sanjay Prakash Jayaprakash, Mathisekaran Thangarasu, Nitesh Jain

Publishing Journal and date: Journal of Videourology, 2021
**Dr Noufal MP**, Medical Physics, Apollo Proton Cancer Centre

250. The role of plan robustness evaluation in comparing protons and photons plans - An application on IMPT and IMRT plans in skull base chordomas

*Authors and Co-authors details:* Manthala Padannayil Noufal, Lamberto Widesott, Shamurailatpam Dayananda Sharma, Roberto Righetto, Marco Cianchetti, Marco Schwarz

*Publishing Journal and date:* Journal of Medical Physics, 2021

251. Impact of spot positional errors in robustly optimized intensity-modulated proton therapy plan of craniospinal irradiation

*Authors and Co-authors details:* Manthala Padannayil Noufal, Shamurailatpam Dayananda Sharma, Katikeshwar Patro, Manikandan Arjunan, Ganapathy Krishnan, Rajesh Tyagarajan, Suresh Rana, Srinivas Chillukuri, Rakesh Jalali

*Publishing Journal and date:* Radiological Physics and Technology, 2021

252. Robustly optimized hybrid intensity-modulated proton therapy for craniospinal irradiation

*Authors and Co-authors details:* Manthala Padannayil Noufal, Shamurailatpam Dayananda Sharma, Ganapathy Krishnan, Mayur Sawant, Utpal Gaikwad, Rakesh Jalali

*Publishing Journal and date:* Journal of Cancer Research and Therapeutics, 2021

**Dr Parthasaradhi Sarvepalli**, Physician and Nephrology, Apollo Hospitals, DRDO

253. Safety and immunogenicity of inactivated hepatitis-A vaccine developed by Human Biologicals Institute in two age groups of healthy subjects: A phase I open label study

*Authors and Co-authors details:* Sai Krishna Susarlad, Sonali Palkar Pardha, Saradhi S V, Arundhati Diwan, Supriya Barsode, M Satish, B C Rashashakar, G Sandhya, Rajendra Lingala, Devi Prasad Shood

*Publishing Journal and date:* Vaccine, Volume 39: Issue 15, 8th April 2021

**Dr Payal Biswas**, (Jr. Resident) Radiodiagnosis, Apollo Hospitals, Kolkata

254. An 11-month-old infant with failure to thrive and delayed developmental milestones

*Authors and Co-authors details:* Gobinda P, Payal Biswas, Sumit Datta, Usha Goenka

*Publishing Journal and date:* American Journal of Neuroradiology, 2021

255. Recurrent facial focal seizures with chronic striatopathy and caudate atrophy—A double whammy in an elderly woman with diabetes mellitus

*Authors and Co-authors details:* Subhankar Chatterjee, Ritwik Ghosh, Umesh Kumar Ojha, Diksha, Payel Biswas, Julian Benito-Le, Souvik Dubey

*Publishing Journal and date:* The Neurohospitalist, 2021

256. When a plain CT brain looks like contrast-enhanced never forget polycythemia
**Authors and Co-authors details:** Payel Biswas, Bhagya Vardhan, Subhankar Chatterjee, Umesh Kumar Ojha, Souvik Dubey

**Publishing Journal and date:** BMJ Case Reports, 2021

257. Love and emotions at the time of COVID-19

**Authors and Co-authors details:** Ritwik Ghosh, Payel Biswas, Subhankar Chatterjee, Samya Sengupta, Mahua J Dubey, Biman K Ray, Souvik Dubey Minerva

**Publishing Journal and date:** Psychiatry, 2021

258. Nurses duty in Covid 19 units - A great challenge

**Authors and Co-authors details:** Ms Pinaki Bayan, Ms Karishma Khaund, Ms Oinam Bidyalaxmi, Ms Maryline Flinsi

**Publishing Journal and date:** International Journal of Science and Research (IJSR), December 2021

259. Olfactory and gustatory symptoms of coronavirus disease 2019: A systematic review and meta-analysis

**Authors and Co-authors details:** Sivakumar Pradeep, Kalpa Pandya, Vinayak Kamath, Sivakumar Vidhyadharan, Naveen Hedne

**Publishing Journal and date:** Journal of Clinical and Diagnostic Research, February 2021

260. Feasibility of use of the 8th edition of the American Joint Committee on cancer staging for head and neck cancers in Indian scenario: An evaluative study

**Authors and Co-authors details:** Kalpa Pandya, Sivakumar Pradeep, Naveen Kumar Jayakumar, Sivakumar Vidhyadharan, Naveen Hedne

**Publishing Journal and date:** Annals of Maxillofacial Surgery, 2021

261. SARS-COV-2 infection causing hypoparathyroidism. A rare case

**Authors and Co-authors details:** Dr Nithyashree N, Dr Pradeep M Venkategowda, Dr Jayalakshmi M, Dr Anand Sutar

**Publishing Journal and date:** International Journal of advances in case report, 2021

262. A case of Covid-19 (Corona Virus Disease-19) infection related reactivation of dormant varicella zoster

**Authors and Co-authors details:** Dr Pradeep MV

**Publishing Journal and date:** World Journal of Advance Healthcare Research, 2021

263. Salvage technique of crush injuries of the hand: A case series

**Authors and Co-authors details:** Dr Pritha Rakshit

**Publishing Journal and date:** Global Journal of Research Analysis, November 2021

264. A treatise on abdominal contouring procedures in a tertiary care hospital

**Authors and Co-authors details:** Dr Pritha Rakshit

**Publishing Journal and date:** Global journal for research analysis, December 2021
265. An Experience of Flap Cover of Exposed Cardiac Pacemaker in a Tertiary Care Hospital

Authors and Co-authors details: Dr. Pritha Rakshit

Publishing Journal and date: Indian Journal of applied research, December 2021

266. Outcomes of Vertical Scar Reduction Mammoplasty in a Tertiary Care Hospital

Authors and Co-authors details: Dr. Pritha Rakshit

Publishing Journal and date: PARIPEX - Indian Journal of research, December 2021

Dr Pushpendra Nath Renjen, Neurology, Indraprastha Apollo Hospitals, Delhi

267. Management of dyslipidaemia for the prevention of stroke: clinical practice recommendations from the lipid association of India

Authors and Co-authors details: Dr Renjen

Publishing Journal and date: Curr Vasc Pharmacol, 6th December 2021

268. Overlap syndrome of Miller-Fisher Syndrome (MFS) with Pharyngeal-cervical-brachial (PCB) variant-Guillain Barre Syndrome (GBS)

Authors and Co-authors details: Pushpendra N Renjen, Shishir Pandey, Dinesh Chaudhari, Jyoti Mishra, Swapnil Jain

Publishing Journal and date: International Journal of Scientific Research October 2021

269. Risk factors predisposing to acute stroke in India - A prospective study

Authors and Co-authors details: C Venkata S Ram, Sudhir Kumar, Pushpendra Nath Renjen, G Praveen Kumar

Publishing Journal and date: Journal of Hypertension, 12th August 2021

270. Biomarkers in ischemic and hemorrhagic stroke

Authors and Co-authors details: P Renjen, D Chaudhari

Publishing Journal and date: Neurology India, 2021

271. New frontiers in acute stroke management

Authors and Co-authors details: Renjen PN, Garg S, Mishra A, Chaudhari DM

Publishing Journal and date: Apollo Med, 2021

272. COVID-19 and neurological problems

Authors and Co-authors details: Renjen PN, Vaishya R

Publishing Journal and date: Apollo Med. 2021

273. Severe acute orthostatic headache: spontaneous intracranial hypotension (SIH)

Authors and Co-authors details: Pushpendra Nath Renjen, Dinesh Mohan Chaudhari, Nidhi Goyal, Kamal Ahmed

Publishing Journal and date: BMJ Case Rep, 2021

274. Stroke Care during the COVID-19 Pandemic: International Expert Panel Review

Authors and Co-authors details: Dr. Pushpendra N Renjen is 40th author out of total 47 authors

Publishing Journal and date: Cerebrovasc Dis, 2021

275. Subgroup classification of myasthenia gravis

Authors and Co-authors details: Renjen PN

Publishing Journal and date: Ann Indian Acad Neurol, 2021
276. An atypical presentation of left lateral medullary syndrome – A case report

Authors and Co-authors details: Pushpendra N Renjen, Ramesh Krishnan, Dinesh Chaudhari, Kamal Ahmad

Publishing Journal and date: Neurology India, 2021

Dr R V Phadke, Radiology, Apollo Medics Hospitals, Lucknow

277. Spinal epidural fistulas–A separate entity to dural fistulas with different angioarchitecture and treatment approach

Authors and Co-authors details: Shetty GS, Singh V, Prasad SN, Phadke RV, Neyaz Z, Udiya A, Behari S

Publishing Journal and date: World Neurosurgery, 3rd February 2021

Dr Rajendra Vishnu Phadke, Intervention Radiology, Apollo Medics Hospitals, Lucknow

278. Vertebrobasilar dolichoectasia with typical radiological features

Authors and Co-authors details: Surya Nandan Prasad, Vivek Singh, Vignesh Selvamurugan and Rajendra Vishnu Phadke

Publishing Journal and date: BMJ Case Reports, January 2021

279. Complete resolution of long pedunculated thrombus of the proximal ascending aorta following conservative management: an interesting case

Authors and Co-authors details: Surya Nandan Prasad, Vivek Singh, Vignesh Selvamurugan, Rajendra Vishnu Phadke

Publishing Journal and date: BMJ Case Reports, March 2021

Dr Rajesh Fogla, Ophthalmology, Apollo Jubilee Hills, Hyderabad

280. A novel technique for donor insertion and unfolding in Descemet membrane endothelial keratoplasty

Authors and Co-authors details: Fogla R, Thazethaveetil IR

Publishing Journal and date: Cornea, 1st August 2021

281. Spontaneous deflation of the big bubble

Authors and Co-authors details: Fogla R, Gujar P

Publishing Journal and date: Cornea, 19th March 2021

282. A novel device to visualize Descemet membrane during donor preparation for Descemet membrane endothelial keratoplasty

Authors and Co-authors details: Dr Rajesh Fogla

Publishing Journal and date: Indian J Ophthalmol, June 2021

283. Preferred practice pattern and observed outcome of deep anterior lamellar keratoplasty - A survey of Indian corneal surgeons

Authors and Co-authors details: Fogla R, Sahay P, Sharma N

Publishing Journal and date: Indian J Ophthalmol, June 2021

284. Corneal folds after Descemet membrane endothelial keratoplasty in congenital hereditary endothelial dystrophy

Authors and Co-authors details: Rajesh Fogla, Bhaskar Srinivasan
Publishing Journal and date: Cornea, June 2021

285. Role of anterior segment OCT for Descemet membrane stripping during Descemet membrane endothelial keratoplasty in eyes with congenital hereditary endothelial dystrophy

Authors and Co-authors details: Fogla R

Publishing Journal and date: Cornea, April 2021

286. Gundersen flap removal to restore eyesight without limbal transplantation-A case report

Authors and Co-authors details: Fogla R, Indumathy TR

Publishing Journal and date: Cornea, 1st June 2021

Dr Rajeshwari B, (Associate consultant) Pathology, Apollo Hospitals, Vanagaram

287. The Role of laboratory parameters in assessment of disease severity and outcome in Covid-19 patients – A retrospective study in a tertiary care centre in Southern

Authors and Co-authors details: Rajeshwari B, Salapathi Shanmugam, Anila Mathan, Dhananjayan R, Isabella Princess B Selvan K, Mitra Ghosh

Publishing Journal and date: Southern India Annals of Pathology and Laboratory Medicine, Volume 8: Issue 7, July 2021

288. Hormone receptor status and Ki67 proliferation index in meningiomas

Authors and Co-authors details: Rajeshwari B, Salapathi Shanmugam, Sadiya Niamath, Mitra Ghosh, Siddhartha Ghosh

Publishing Journal and date: Annals of Pathology and Laboratory Medicine, Volume 7: Issue 2, February 2020

289. Vertebral cryptococcosis infection in an immunocompetent host: A rare case report

Authors and Co-authors details: B Rajeshwari, Salapathi Shanmugam, Sadiya Niamath, Mitra Ghosh

Publishing Journal and date: Journal of Clinical and Diagnostic Research, 2019

290. Gliosarcoma with Chondrosarcomatous Differentiation: A case report

Authors and Co-authors details: Rajeshwari B, Salapathi Shanmugam, Sadiya Niamath, Mitra Ghosh, Siddartha Ghosh

Publishing Journal and date: Annals of Pathology and Laboratory Medicine, Volume 6: Issue 2, 2021

291. Endolymphatic sac tumour: A case report with review of literature

Authors and Co-authors details: Rajeshwari B, Shanmugam Salapathi, Sadiya N, Mitra G, Chendilnathan B

Publishing Journal and date: Indian J Pathol Microbiol, 2019

292. Extrarenal angiomyolipoma of para testicular and subcutaneous region: A report of two cases at rare sites

Authors and Co-authors details: B Rajeshwari, Shanmugam Salapathi, Mitra Ghosh

Publishing Journal and date: Annals of Pathology and Laboratory Medicine, Volume 7: Issue 1, January 2020
293. SARS-CoV-2 B.1.617.2 Delta variant replication and immune evasion

Authors and Co-authors details: Mlcochova P, Kemp S, Dhar MS, Papa G, Meng B, Ferreira IATM, Vaishya

Publishing Journal and date: Nature, November 2021

294. Covid-19: India sees new spike in cases despite vaccine rollout. (Rapid Response)

Authors and Co-authors details: Vaishya R, Vaish A, Iyengar KP Br

Publishing Journal and date: Med J, 31st March 2021

295. ChAdOx1 n- Cov 19 Vaccine protected against severe infection caused by the Variants

Authors and Co-authors details: Vaishya R, Sibal A, Singh SK

Publishing Journal and date: Mayo Clinic Proceedings, October 2021

296. Impact of second wave of COVID-19 on health care workers in India

Authors and Co-authors details: Iyengar KP, Jain VK, Ish P, Vaishya R

Publishing Journal and date: Apollo Med, 2021

297. Mechanism of injury in ramp lesions

Authors and Co-authors details: Srinivas KBS, Vaishya R


298. Total hip arthroplasty in patients with post-polio residual paralysis: A systematic review

Authors and Co-authors details: Upadhyaya GK, Patralekh MK, Jain VK, Iyengar KP, Gautam D, Vaishya R, Malhotra R J

Publishing Journal and date: Arthroplasty, 2021

299. Can open access publishing be made 'JUST' for authors from low-middle income countries?

Authors and Co-authors details: Iyengar KP, Jain Vk, Bahl S, Vaishya R

Publishing Journal and date: Am J Em Med, 2021

300. Assessment of safety and efficacy of intra-articular stromal vascular fraction injection for the treatment of knee osteoarthritis

Authors and Co-authors details: Saseendar S, Vaish A, Navada, Murrell WD, Vaishya R

Publishing Journal and date: Int Orthop (SICOT), 2021

301. Acute painful calcific tendonitis of shoulder

Authors and Co-authors details: Vaishya R, Vaish A, Ansari AH

Publishing Journal and date: Postgrad Med J, 2021

302. Falling orthopaedic instruments and implants-potential hazards and strategies to mitigate them

Authors and Co-authors details: Iyengar KP, Jain VK, Vaishya R

Publishing Journal and date: Perioperative Care and Operating Room Management, 2021

303. BAME community hesitancy in UK for COVID-19 vaccine; suggested solutions
Authors and Co-authors details: Iyengar KP, Vaishya R, Jain VK, Ish P

Publishing Journal and date: Postgrad Med J, 2021

304. Impact of Covid-19 on the practice of orthopaedics and trauma – An Epidemiological study of the full pandemic year of a tertiary care center of New Delhi

Authors and Co-authors details: Vaishya R, Vaish A, Kumar A

Publishing Journal and date: Int Orthop (SICOT), 2021

305. Influence of the Peltzman effect on the recurrent Covid-19 waves in Europe

Authors and Co-authors details: Iyengar KP, Jain VK, Ish P, Botchu R, Vaishya R

Publishing Journal and date: Postgrad Med J, 2021

306. Melorheostosis: dripping candle wax disease

Authors and Co-authors details: Vaishya R, Vaish A

Publishing Journal and date: Ind J Med Res, 2020


Authors and Co-authors details: Iyengar KP, Jain VK, Vaishya R, Ish P

Publishing Journal and date: Advances in Respiratory Medicine, 2021

308. Emerging role of integrated PET-MRI in osteoarthritis

Authors and Co-authors details: Jena AN, Taneja S, Rana P, Goyal N, Botchu R, Vaishya R

Publishing Journal and date: Skeletal Radiol, 2021

309. Clinical rheumatology - A book review

Authors and Co-authors details: Vaishya R

Publishing Journal and date: Indian J Orthop, 2021

310. Emergence of COVID-19 variants among ChAdOx1 nCoV-19 (Recombinant) vaccine recipients.

Authors and Co-authors details: Vaishya R, Sibal A, Malani A, Singh SK, Das S


311. Challenges in Conducting and completing the orthopaedic postgraduate thesis during Covid-19 pandemic

Authors and Co-authors details: Jain VK, Gautam D, Iyengar KP, Vaishya R, Malhotra R

Publishing Journal and date: Indian J Orthop, September 2021

312. Virtual post-graduate orthopaedic practical examination- A pilot model

Authors and Co-authors details: Iyengar KP, Jain VK, Vaishya R

Publishing Journal and date: Post Grad Med J, 2021

313. SARS-COV-2 infections after COVID-19 immunization in Health care workers– A retrospective, case cohort study

Authors and Co-authors details: Vaishya R, Sibal A, Arpita M, Hariprasad K


314. Impact of COVID-19 on clinical practices during lockdown: A pan India survey of Orthopaedic Surgeons

Authors and Co-authors details: Jain VK, Upadhyaya GK, Patralekh MK, Iyengar KP, Lal H, Vaishya R
Publishing Journal and date: Malaysian Orthop J, 2021

315. Update on functional imaging of the Diabetic Foot infection

Authors and Co-authors details: Iyengar KP, Jain VK, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

316. The role of social advocacy in reducing road traffic accidents in India

Authors and Co-authors details: Rajasekharan RB, Rajasekharan S, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

317. Article processing charge is a barrier to publication

Authors and Co-authors details: Iyengar KP, Jain VK, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

318. Anaesthetic considerations in polytrauma patients

Authors and Co-authors details: Dattari R, Jain VK, Iyengar KP, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

319. Perioperative anaesthetic considerations for rotator cuff repair surgeries: A current concept review

Authors and Co-authors details: Maurya IB, Garg R, Jain VK, Iyengar KP, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

320. Complementary and alternative modalities (CAM) for pain management in musculoskeletal diseases (MSDs)

Authors and Co-authors details: Bhoi D, Jain D, Garg R, Iyengar KP, Hoda W, Vaishya R, Jain VK

Publishing Journal and date: J Clin Orthop Trauma, 2021

321. Does the use of intraoperative CT scan improve outcomes in Orthopaedic surgery? A systematic review and meta-analysis

Authors and Co-authors details: Kumar V, Baburaj V, Pate S, Sharma S, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

322. Elucidating reasons of COVID-19 re-infection and its management strategies

Authors and Co-authors details: Iyengar KP, Jain VK, Garg R, Vaishya R

Publishing Journal and date: Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2021

323. Understanding the COVID Conundrum and Decluttering the scientific literature on Covid

Authors and Co-authors details: Bagaria V, Vaishya R

Publishing Journal and date: Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2021

324. Differences between first wave and second wave of Covid-19 in India

Authors and Co-authors details: Jain VK, Iyengar KP, Vaishya R
325. Top 50 cited articles on Covid-19 after the first year of the Pandemic: A bibliometric analysis

Authors and Co-authors details: Srinivas KBS, Vasudeva N, Vaishya R, Patralekh MK

Publishing Journal and date: Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2021

326. Top 100 cited articles on Diabetes and Covid-19: A bibliometric analysis

Authors and Co-authors details: Vishwanathan K, Srinivas KBS, Vaishya R

Publishing Journal and date: Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2021

327. Lack of vaccination and associated comorbidities predispose to the need for intensive care in individuals infected with the Delta variant – A case cohort study from a tertiary care hospital in New Delhi, India

Authors and Co-authors details: Vaishya R, Sibal A, Sharma H

Publishing Journal and date: J Clin Orthop Trauma, 2021

328. Data for orthopaedic surgeons

Authors and Co-authors details: Srinivas KBS, Vishwanathan K, Patralekh MK, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

329. The incidence and management of isolated greater trochanteric fractures – A systematic review of 166 cases

Authors and Co-authors details: Saad A, Iyengar KP, Botchu R, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

330. Smart sensor implant technology in total knee arthroplasty

Authors and Co-authors details: Iyengar KP, Gowers BTV, Jain VK, Ahluwalia RS, Botchu R, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021

331. COVID vaccination provided protection from severe disease despite low Cycle threshold (CT) values

Authors and Co-authors details: Vaishya R, Malani A, Sharma H, Vaish A, Singh SK

Publishing Journal and date: Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2021

332. Disproportionate gender representation in Orthopaedics and its Research

Authors and Co-authors details: Vaishya R, Vaish A

Publishing Journal and date: J Clin Orthop Trauma, 2021

333. 18F-NaF simultaneous PET/MRI in osteoarthritis: Initial observations with case illustrations

Authors and Co-authors details: Jena AN, Goyal N, Vaishya R

Publishing Journal and date: J Clin Orthop Trauma, 2021
334. Bibliometric analysis of COVID-19 related publications in Indian orthopaedic journals

**Authors and Co-authors details:** Patralekh MK, Iyengar KP, Jain VK, Vaishya R

**Publishing Journal and date:** J Clin Orthop Trauma, 2021

335. Symptomatic post-vaccination SARS-CoV-2 infections in healthcare workers- A multicenter cohort study

**Authors and Co-authors details:** Vaishya R, Sibal A, Malani A, Kar S

**Publishing Journal and date:** Diabetes Metabolic Syndrome: Clinical Research and Reviews, 2021

336. Sacroiliac joint tuberculosis revisited – A clinico-radiological review

**Authors and Co-authors details:** Jain V, Iyengar KP, Botchu R, Vaishya R

**Publishing Journal and date:** J Clin Orthop Trauma, 2021

337. Bioengineering technology in context to COVID-19 pandemic: Potential roles and applications

**Authors and Co-authors details:** Bahl S, Iyengar KP, Bagha AL, Jaly I, Jain V, Vaishya R

**Publishing Journal and date:** J Industrial Integration Management, 2021

338. COVID-19 pandemic and debates on the operating theatre ventilation system in orthopaedic surgery

**Authors and Co-authors details:** Jaly I, Iyengar KP, Bahl S, Hughes T, Vaishya R

**Publishing Journal and date:** J Industrial Integration Management, 2021

339. Modern technologies for combating the pandemic of COVID-19

**Authors and Co-authors details:** Vaishya R, Javaid M, Khaleel I, Vaish A, Iyengar KP

**Publishing Journal and date:** J Industrial Integration Management, 2021

340. Publication Trends on Arthroscopy from India

**Authors and Co-authors details:** Kambhampati SBS, Karlapudi V, Maini L, Vaishya R

**Publishing Journal and date:** J Arthroscop Surg Sports Med, 2021

341. Pubic Osteolysis in an elderly masquerading as malignancy: A case report and review of literature

**Authors and Co-authors details:** Vaishya R, Mittal P, Vaish A, Khosa R

**Publishing Journal and date:** J Orthop Case Reports, 2021

342. Data analytics applications for COVID-19 pandemic

**Authors and Co-authors details:** Javaid M, Khan IH, Vaishya R, Haleem A, Vaish A

**Publishing Journal and date:** Curr Med Reviews and Practices, 2021

343. Exploring the role and mechanism of COVID-19 apps in fighting the current pandemic

**Authors and Co-authors details:** Iyengar KP, Jain R, Samy DA, Jain VK, Vaishya R, Suraliwala K

**Publishing Journal and date:** Indian J Med Sci, 2021
344. Severe impact of COVID-19 pandemic on non-
COVID patient care and health delivery: An
observational study from a large multispecialty
hospital of India

Authors and Co-authors details: Vaishya R, Sibal A,
Shivakumar P

Publishing Journal and date: Indian J Med Sc, 2021

345. The Visionary who transformed private
healthcare in India

Authors and Co-authors details: Vaishya R

Publishing Journal and date: Indian J Med Sc, 2021

346. Drones for fighting COVID-19 pandemic

Authors and Co-authors details: Vaishya R, Iyengar
KP, Khan IH, Javaid M

Publishing Journal and date: Curr Med Res Pract,
2021

Dr Rakesh Jalali, Radiation Oncology, Apollo Proton
Cancer Centre

347. Safety and efficacy of bevacizumab biosimilar in
recurrent/progressive glioblastoma

Authors and Co-authors details: Kumar G, DSouza
H, Menon N, Srinivas S, Vallathol DH, Boppana M,
Rajpurohit A, Mahajan A, Janu A, Chatterjee A,
Krishnatry R, Gupta T, Jalali R, Patil VM

Publishing Journal and date: Ecancer Medical
Science, 2021

348. Down regulation of ARID1B, a tumor-
suppressor in the WNT subgroup medulloblastoma,
activates multiple oncogenic signaling pathways

Authors and Co-authors details: Eogharkar A, Singh
SV, Bharambe HS, Paul R, Moiyadi A, Goel A,
Shetty P, Sridhar E, Gupta T, Jalali R, Goel N,
Gadewal N, Muthukumar S, Shirsat NV

Publishing Journal and date: Hum Mol Genet, 5th
May 2021

349. MiR-592 activates the mTOR kinase,
ERK1/ERK2 kinase signalling and imparts neuronal
differentiation signature characteristic of group 4
medulloblastoma

Authors and Co-authors details: Paul R, Bapat P,
Deogharkar A, Kazi S, Singh SKV, Gupta T, Jalali R,
Sridhar E, Moiyadi A, Shetty P, Shirsat NV

Publishing Journal and date: Hum Mol Genet, 19th
July 2021

350. Novel applications of stereotactic body
radiotherapy (SBRT)

Authors and Co-authors details: Kotecha R, Dutta D,
Jalali R, Muacevic A

Publishing Journal and date: Front Oncol, September 2021

351. Biomarkers of systemic inflammation in
patients with glioblastoma: An analysis of correlation
with tumour-related fa

Publishing Journal and date: International Journal
of Infectious Diseases, 2021

352. Checkpoint inhibitors and radiotherapy in
refractory malignant melanocytic schwannoma with
Carney complex: first evidence of efficacy

Authors and Co-authors details: Bajpai J, Kapoor A,
Jalali R, Gounder MM

Publishing Journal and date: BMJ Case Rep, May
2021

Dr Rama Narasimhan, Internal Medicine, Apollo
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353. Severe acute respiratory distress syndrome in
COVID-19 infected pregnancy: a case report
Authors and Co-authors details: Nagashree Undinti, Charumathi R, Rama Narasimhan, Neetu Mariam Alex

Publishing Journal and date: Int J Reprod Contracept Obstet Gynecol, 10th January 2021

Dr Ravindra M Mehta, Interventional Pulmonology, Apollo Hospitals, Jayanagar

354. A shorter symptom onset to remdesivir treatment (SORT) interval is associated with a lower mortality in moderate-to-severe Covid-19: A real-world analysis

Authors and Co-authors details: Ravindra M Mehta, Sameer Bansal, Suhitha Bysani, Hariprasad Kalpakam

Publishing Journal and date: International Journal of Infectious Diseases, 2021

355. Use of fibrinolytics and deoxyribonuclease in adult patients with pleural empyema: A consensus statement Udit

Authors and Co-authors details: Chaddha, Abhinav Agrawal, David Feller-Kopman, Viren Kaul, Samira Shojaee, Mehta RM

Publishing Journal and date: The Lancet Respiratory Medicine, 2nd February 2021

Dr Raymond Dominic Savio, Critical Care, Apollo Proton Cancer Centre

356. Procalcitonin (in COVID-19): The incessant quest

Authors and Co-authors details: Savio RD


Dr Refai Showkathali, Interventional Cardiology, Apollo Hospitals, Chennai

357. Thrombolysis in acute pulmonary embolism: Are we overdoing it?

Authors and Co-authors details: Dr Refai Showkathali

Publishing Journal and date: Heart Views, 2021

358. Unanticipated complication of Transcatheter Correction of superior Sinus Venosus Atrial Septal Defect

Authors and Co-authors details: Radhapiiya Yalamanchi, Muthukumaran C Sivaprakasam, Raja Vijendra Reddy Janke, Krishnaswamy Chandrasekharan, Vijay Shankar Sadhasivam, Refai Showkathali

 Publishing Journal and date: Journal of Cardiology Cases, 2021

Dr Renuka Masodkar, Radiation Oncology, Indraprastha Apollo Hospitals, Delhi

359. Primary adenoid cystic carcinoma of the lung

Authors and Co-authors details: Renuka Masodkar, Mano Bhadauria, PK Das, S Zaidi

Publishing Journal and date: Apollo Medicine, 2021

Dr Rishan TS, (Associate Consultant), Radiation Oncology, Apollo Proton Cancer Centre

360. Advances in radiation therapy in malignant brain tumors

Authors and Co-authors details: Rakesh Jalali, Rishan Thimma Sudarsan

Publishing Journal and date: International Journal of Neurooncology, 2021
**Dr Rohini Handa**, Rheumatology, Indraprastha Apollo Hospitals, Delhi

361. Updated APLAR consensus statements on care for patients with rheumatic diseases during the COVID-19 pandemic

**Authors and Co-authors details:** Dr Rohini

**Publishing Journal and date:** International Journal of Rheumatic Diseases, June 2021

**Ms Rohini Sharma**, Nursing-Vice Principal, Indraprastha Apollo Hospitals, Delhi

362. Relationship between the time management strategies and level of stress among students nurses in selected institutions

**Authors and Co-authors details:** Ms. Jyoti Ms. Rohini

**Publishing Journal and date:** IOSR Journal of Nursing and Health Science (IOSR-JNHS), March-April 2021

**Dr Roopesh Kumar VR**, Neurosurgery, Apollo Proton Cancer Centre

363. Managing the anomalous vertebral artery in C1-C2 Stabilization for congenital atlantoaxial instability

**Authors and Co-authors details:** Roopesh Kumar, VR Sunil, Kapilavayi R

**Publishing Journal and date:** Journal of Neurological Surgery, 2021

364. Effectiveness of cerebral bypass revascularisation procedures in adult cerebrovascular ischaemic stroke: Looking beyond COSS - A single surgeon's experience of 7 years

**Authors and Co-authors details:** V Kumar, Vishwaraj Ratha, Rithesh Nair, S Karthikeyan, Adhityan Rajendran Ramya Soundararajan

**Publishing Journal and date:** Journal of Cerebrovascular Sciences, 2021

365. More than just a urinary catheter: achieving hemostasis using Foley catheter in deep cerebral cavities - technical nuances

**Authors and Co-authors details:** Venkatesan Sanjeevi Roopesh Kumar VR

**Publishing Journal and date:** Egyptian Journal of Neurosurgery, 2021

366. Technical consideration in awake craniotomy with cortical and subcortical motor mapping in preadolescents: pushing the envelope

**Authors and Co-authors details:** Vishwaraj Ratha, Nishanth Sampath, Subhakar Subramaniam, Roopesh Mumar VR

**Publishing Journal and date:** Pediatric Neurosurgery, 2021

367. Analysis of factors associated with long-term survival in patients with glioblastoma

**Authors and Co-authors details:** Dr Roopesh

**Publishing Journal and date:** World Neurosurgery, 2021

**Dr Roshan Agarwala**, Gastroenterology, Apollo Hospitals, Guwahati

368. Endoscopic drainage versus percutaneous drainage for the management of infected walled off necrosis: A comparative analysis

**Authors and Co-authors details:** Dr Roshan

**Publishing Journal and date:** Expert Review of Gastroenterology and Hepatology, 2022
Dr S K Wangnoo, Endocrinology and Diabetology, Indraprastha Apollo Hospitals, Delhi

369. Role of gliclazide in safely navigating type 2 diabetes mellitus patients towards euglycemia: Expert opinion from India

Authors and Co-authors details: S Wangnoo, M Shunmugavelu, S Reddy, V Negalur, S Godbole, V Dhandhania, Nareen Krishna, K Gaurav

Publishing Journal and date: Endocrine and Metabolic Science Volume 4, 30th September 2021

Mr Sachin Raval, Pharmacy, Apollo Hospitals, Ahmedabad

370. Evaluation of significant change in blood markers during pre and post intravenous treatment of remdesivir in patients with Covid-19 infection

Authors and Co-authors details: Mr Sachin Raval, Dr Nipul Kapadia, Mr Rajkumar Sharma Sanket Shah


Dr Sai Satish, Interventional Cardiology, Apollo Main Hospitals, Chennai

371. Percutaneous edge-to-edge mitral valve repair for symptomatic high surgical risk patients with significant mitral regurgitation - Short term and one year follow up results from a single center in India

Authors and Co-authors details: Sai Satish, Saibal Kar, Ashish Indani, Vijayakumar Subban, Ganapathy Arumugam, Hemalatha Senthil, Hema Kethavath, Mathew Samuel Kalarickal, Krishnaswamy Chandrasekaran

Publishing Journal and date: Indian Heart Journal, 2021

372. Asian Pacific Society of Cardiology consensus recommendations on the use of Mitraclip for mitral regurgitation

Authors and Co-authors details: Khung Keong Yeo, Jack Wei Chieh Tan, Darren L Walters, JoAnn Lindenfeld, Michael Kang-Yin Lee, Angus Shing Fung Chui, Sai Satish, Teguh Santoso, Shunsuke Kubo, John Chan Kok Meng, Kenny YK Sin, See Hooi Ewe, David Sim

Publishing Journal and date: European Cardiology Review, 2021

Dr Saibal Moitra, Allergy and Immunology, Apollo Hospitals, Kolkata

373. Role of living conditions and socioenvironmental factors on chronotype in adolescents

Authors and Co-authors details: Prasun Haldar, Smriti Debnath, Ana Adan, Konrad S Jankowski, Dwiptirtha Chattopadhyay, Santi Gopal Maity, Saibal Moitra, Paige Lacy, Subhabrata Moitra

Publishing Journal and date: Adolescents, 2021

Dr Salapathi S, (Associate consultant), Pathology, Apollo Hospitals, Vanagaram

374. Solitary intracranial juvenile xanthogranuloma masquerading as low-grade glioma - A rare case report

Authors and Co-authors details: Salapathi Shanmugam, B Rajeshwari, Mitra G, Ghosh S

Publishing Journal and date: Neurol India, 2020

375. Papillary variant of hemangiopericytoma – a rare morphological variant presenting as a recurrent occipital tumor

Authors and Co-authors details: Salapathi S, Rajeshwari B, Ghosh M
376. Low grade appendiceal mucinous neoplasms- A short case series with review of literature

Authors and Co-authors details: S Salapathi, B Rajeshwari, Sadiya N, Mitra Ghosh

377. Isolated renal zygomycosis, a rare and lethal cause of massive renal infarction- report of two cases

Authors and Co-authors details: Salapathi Shanmugam, B Rajeshwari, Sadiya Niamath, Mitra Ghosh

378. Heterotopic ossification with functioning bone marrow in incisional hernia sac- a rare entity

Authors and Co-authors details: Salapathi S, Rajeshwari B, Ramkumar K, Mitra Ghosh

379. Histopathological changes in the right atrial appendages triggering atrial fibrillation: A tertiary care center study

Authors and Co-authors details: Saloni Naresh Shah, Renu G’ Boy Varghese, Sanjay Theodore

380. Subungual exostosis

Authors and Co-authors details: Saloni N Shah

381. Metastatic extraskeletal mesenchymal chondrosarcoma of the pancreas: Report of an unusual case with review of literature

Authors and Co-authors details: Saloni Naresh Shah, Ashok Parameswaran Prasanna Kumar Reddy

382. Fetal lung interstitial tumor: An uncommon pediatric pulmonary neoplasm

Authors and Co-authors details: Saloni Naresh Shah, N Geetha, Radhakrishnan Satheesan, Ashok Parameswaran

383. Decision making, management and midterm outcomes of postinfarction ventricular septal rupture: Our experience with 21 patients

Authors and Co-authors details: Samarjit Bisoyi, Usha Jagannathan, Anjan K Dash, Raghunath Mohapatra, Debashish Nayak, Satyajit Sahu, Pattnaik Satyanarayan

384. Clinical Excellence 2022

Dr Samarjit Bisoyi, Anesthesiology, Apollo Hospitals, Bhubaneswar

385. Metastatic mediastinal melanoma: A case report

Authors and Co-authors details: Saloni Naresh Shah, Renu G’ Boy Varghese, Sanjay Theodore

386. Decision making, management and midterm outcomes of postinfarction ventricular septal rupture: Our experience with 21 patients

Authors and Co-authors details: Samarjit Bisoyi, Usha Jagannathan, Anjan K Dash, Raghunath Mohapatra, Debashish Nayak, Satyajit Sahu, Pattnaik Satyanarayan

387. Metastatic mediastinal melanoma: A case report

Authors and Co-authors details: Saloni Naresh Shah, Renu G’ Boy Varghese, Sanjay Theodore

388. Decision making, management and midterm outcomes of postinfarction ventricular septal rupture: Our experience with 21 patients

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389. Metastatic mediastinal melanoma: A case report

Authors and Co-authors details: Saloni Naresh Shah, Renu G’ Boy Varghese, Sanjay Theodore

390. Decision making, management and midterm outcomes of postinfarction ventricular septal rupture: Our experience with 21 patients

Authors and Co-authors details: Samarjit Bisoyi, Usha Jagannathan, Anjan K Dash, Raghunath Mohapatra, Debashish Nayak, Satyajit Sahu, Pattnaik Satyanarayan
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384. An expert opinion on the management of type 2 diabetes mellitus in children and adolescents

Authors and Co-authors details: Rajesh Rajput, Sujeet Jha, Jayanta Kumar Panda, Appalavenkata Kandregula Subrahmanyam, Sambit Das

Publishing Journal and date: Journal of Diabetology, 2021

Mr Sanket Shah, Pharmacy, Apollo Hospitals, Ahmedabad

385. Deferiprone (Ferriprox) as newer iron chelator in Thalassaemia major patients

Authors and Co-authors details: Jinal L Chaudhary, Sanjesh G Rathi, Sanket Shah, Jigna T Patel, Sohansinh Vaghela

Publishing Journal and date: Research Journal of Pharmacy and Technology, February 2021

Dr Sanjay Dalsaniya, Quality Head-regional, Apollo Hospitals, Ahmedabad

386. Impact of joint commission international (JCI) accreditation – a cross-sectional survey study among healthcare professionals in quaternary care hospitals in western India

Authors and Co-authors details: Dr Sanjay Dalsania, Jatin Pandya

Publishing Journal and date: ANVESH – 17th Doctoral conference in Management (by Nirma University, Ahmedabad), 17-18th December 2021

Dr Sanjay Khare, Bariatric / Internal Medicine, Apollo Hospitals, Navi Mumbai

388. A devious disease deceptively pressing as a straightforward gastro enteritis

Authors and Co-authors details: Dr Sanjay Khare, Dr Hrishikesh Morkhade, Dr Nazia Khan

Publishing Journal and date: Paripex-Indian Journal of Research, August 2021

389. Usual presentation of an unusual disease – Tolosa Hunt Syndrome

Authors and Co-authors details: Dr Sanjay Khare, Dr Nazia Khan

Publishing Journal and date: Paripex-Indian Journal of Research, April 2021

390. Lipomatous Psuedohypertrophy of pancreas – an extremely unusual case

Authors and Co-authors details: Dr Sanjay Khare, Chintan R Trivedi

Publishing Journal and date: Paripex-Indian Journal of Research, February 2021

391. Frustrations of a fixed gaze: An unusual case

Authors and Co-authors details: Dr Sanjay Khare, Dr Hrishikesh Morkhade

Publishing Journal and date: International Journal of Medical and All Body Health Research, September-October 2021
392. Bariatric Medicine: A new faculty dealing with obesity: an account of successful intervention

**Authors and Co-authors details:** Dr Sanjay Khare, Tanuja Akre, Varsha G, Rituparna G, Sudarshan P

**Publishing Journal and date:** Apollo Medicine, 2021

393. Surgical fixation of bilateral multiple rib fractures in a case of bilateral complex chest injury

**Authors and Co-authors details:** Dr Sanjay Shah, Dr Vineet Rajput, Dr Shivali Kakadiya

**Publishing Journal and date:** Annals of Clinical Case Reports, 2021

394. A case of blunt tracheobronchial injury with right massive pneumothorax and lung atelectasis

**Authors and Co-authors details:** Dr Sanjay Shah, Dr Vineet Rajput, Dr Shivali Kakadiya

**Publishing Journal and date:** Annals of clinical case Reports, 2021

395. Interventional nephrology and vascular access practice: A perspective from South and Southeast Asia

**Authors and Co-authors details:** Dr Sanjiv Jasuja

**Publishing Journal and date:** The Journal of Vascular Access, 3rd May 2021

396. Impact of national economy and policies on end-stage kidney care in South Asia and Southeast Asia

**Authors and Co-authors details:** Dr Sanjiv Jasuja

**Publishing Journal and date:** HIndawi - International Journal of Nephrology, 6th May 2021

397. Peritoneal dialysis: Status report in South and South East Asia

**Authors and Co-authors details:** Dr Sanjiv Jasuja

**Publishing Journal and date:** APSN - The Official Journal of the Asian Pacific Society of Nephrology, 27th July 2021

398. Current status and future of end-stage kidney disease in gulf cooperation council countries: Challenges and opportunities

**Authors and Co-authors details:** Dr Sanjiv Jasuja

**Publishing Journal and date:** Saudi Journal of Kidney Diseases and Transplantation, August 2021


**Authors and Co-authors details:** Dr Sanjiv Jasuja, Dr Gaurav Sagar, Dr Anupam Bahl, Dr Shalini Verma

**Publishing Journal and date:** Hindawi - International Journal of Nephrology, 4th October 2021

400. Aetiology, practice patterns and burden of end-stage kidney disease in South Asia and South-East Asia: A questionnaire-based survey

**Authors and Co-authors details:** Dr Sanjiv Jasuja

**Publishing Journal and date:** APSN The Official Journal of the Asian Pacific Society of Nephrology, 2021

401. National economy and policies on end stage kidney care in South Asia and South East Asia
402. Post vaccination analysis of anti-spike antibody responses in kidney transplant recipients with and without COVID-19 infection in a tertiary care center, India

Authors and Co-authors details: Dr Hemant Mehta, Dr Wasiyeeullah Shaikh, Dr Sanjiv Jasuja, Dr Gaurav Sagar

Publishing Journal and date: Kidney News Online, 1st December 2021

403. The hippocampus – a new OAR for postoperative radiotherapy for bucco-alveolar cancer? A dosimetric and biological analysis

Authors and Co-authors details: Nangia S, Singh M, Khosa R, Rout SK, Singh G, Oomen S

Publishing Journal and date: Advances in Radiation Oncology, Volume 6: Issue 3, 4th March 2021

404. Saphenous vein graft disease interventions, Indian journal of cardiovascular disease in women WINCARS

Authors and Co-authors details: Sarita Rao K, Roshan Rao, Achukatla Kumar


405. International nosocomial infection control consortium report, data summary of 50 countries for 2010-2015: Device-associated module More than 100s of authors.

Authors and Co-authors details: Dr Pattnaik

Publishing Journal and date: American Journal of Infection control, 2021

406. The Importance of cribriform-lamella angle in endoscopic sinus surgery

Authors and Co-authors details: Satish Nair, Ameena Ibrahim


407. Endoscopic ear surgery: Our experience

Authors and Co-authors details: Satish Nair, J G Aishwarya


408. Imaging and intervention in internal carotid artery pseudoaneurysm secondary to retropharyngeal abscess

Authors and Co-authors details: Krishna Ramanathan, Aruna Patil, Sunder Narasimhan, Satish Nair


409. IgG4 related disease of skull base-A diagnostic challenge
414. Anatomical and surgical study to evaluate the accuracy of "CM- S" technique in facial nerve identification during parotid surgery

Authors and Co-authors details: Ashish S Shah, Satish Nair, V Pavithra, J G Aishwarya, K V R Brijith, Deeksha Thakur


415. Endoscopic ear surgery in middle ear cholesteatoma

Authors and Co-authors details: Satish Nair, Aishwarya JG, Nagamani Warrier, Pavithra V, Aditya Jain, Mehrin Shamim, Krishna Ramanathan, Pooja K Vasu

Publishing Journal and date: Laparoscopic, Endoscopic and Robotic Surgery, 2021

416. Glomus Laryngicum

Authors and Co-authors details: Aditya Jain, Satish Nair, Deeksha Thakur, Ashish S Shah

Publishing Journal and date: Annals of Indian Academy of Otorhinolaryngology Head and Neck Surgery, 2021

417. Surgical landmarks for parapharyngeal internal carotid artery during extended endoscopic surgery of nasopharynx: A cadaveric and radiological study

Authors and Co-authors details: Satish Nair, Namrata Srivastava, K V R Brijith, J G Aishwarya

Publishing Journal and date: Indian J Otolaryngol Head Neck Surgery, 2021

418. Mini incision Parotidectomy - Our Technique

Authors and Co-authors details: Satish Nair, JG Aishwarya, Aditya Jain, Sneha Mohan
419. Outcomes of totally endoscopic versus Microscopic techniques in Middle year cholesteatoma: A systematic review and meta-analysis

**Authors and Co-authors details:** Satish Nair, JG Aishwarya, Pooja Vasu, Aditya K, Martina Shalini

**Publishing Journal and date:** Indian J Otolaryngol Head Neck Surgery, 2021

---

420. A decade of investigation: Peroral endoscopic myotomy versus laparoscopic heller myotomy for achalasia

**Authors and Co-authors details:** Michael T Olson, Tania Triantafyllou, Saurabh Singhal

**Publishing Journal and date:** Journal of Laparoendoscopic and Advanced Surgical Techniques, Volume 29, 2019

---

421. Enhanced recovery pathway vs standard care pathways in esophageal cancer surgery: systematic review and meta-analysis

**Authors and Co-authors details:** Tania Triantafyllou, Michael T Olson, Dimitrios Theodorou, Dimitrios Schizas, Saurabh Singha

**Publishing Journal and date:** Esophagus, 2020

---

422. cT2N0 esophageal adenocarcinoma: predictors of lymph nodal involvement and clinical significance

**Authors and Co-authors details:** Saurabh Singhal, Soumen Roy

**Publishing Journal and date:** Journal of Thoracic Disease, 2019

---

423. Early multicenter experience of a new balloon expandable MyVal transcatheter heart valve in dysfunctional stenosed right ventricular outflow tract conduits

**Authors and Co-authors details:** Muthukumaran C Sivaprakasam, J Raja Vijendra Reddy, Sengottuvelu Gunasekaran, Sivakumar Kothandam, Sreeja Pavithran, Rohitraj Rajagopalan Gopalavilasam, M Jayranganath, Edwin Francis

**Publishing Journal and date:** Annals of Pediatric Cardiology, 16th February 2021

---

424. Acute St Elevation Myocardial Infarction (Stemi) Management during covid-19 era: an Indian survey report by 1083 cardiologists

**Authors and Co-authors details:** Chandrashekar Ponde, Manjula Suresh, Sengottuvelu Gunasekaran, Sundeep Mishra, Thomas Alexander, Tiny Nair

**Publishing Journal and date:** Journal of the American College of Cardiology, Volume 77: Issue 18: Page 3161, 2021

---

425. Serial evaluation of vascular responses after implantation of everolimus-eluting coronary stent by optical coherence tomography

**Authors and Co-authors details:** Upendra Kaul, Atul Abhyankar, Rajpal K Abhaichand, Ajit Bhagwat, Gunasekaran Sengottuvelu, Charanharayiil Gopalalan Bahuleyan, Priyadarshini Arambam, Diana Yumnam

**Publishing Journal and date:** Catheter Cardiovasc Intervention, May 2021
Dr Shambunath Agrawal, (Associate Consultant),
General surgery, Apollo Hospitals, Bilaspur

426. Study the efficacy of intrasphincteric botox injection and comparison with surgical sphincterotomy in chronic anal fissure

Authors and Co-authors details: Dr Shambunath Agrawal, Dr Paritosh Gupta, Dr Tez Kishab Thusu, Dr Mayank, Dr Hari S Mahobia

Publishing Journal and date: International Journal of Scientific Research, October 2021

427. A rare case report: left-sided gall bladder without situs inversus viscerum

Authors and Co-authors details: Shambhu Nath Agrawal, Amit Verma, Sunil Kedia, Amol Padegaonkar, Hari S Mahobia


428. A rare case scenario: spontaneous diaphragmatic rupture during labor

Authors and Co-authors details: Shambhu Nath Agrawal, Amit Verma, Sunil Kedia, Amol Padegaonkar, Hari Shankar Mahobia


Dr Sheba Sweetline Kanthy Jacob, Pathology, Apollo Main Hospitals, Chennai

429. Distribution and expression of programmed death ligand -1 (PD-L1) in non-small cell carcinomas of the lung in a tertiary care centre in South India

Authors and Co-authors details: Sheba S K Jacob

Publishing Journal and date: Turkish Journal of Pathology, 2021

430. Chronic myeloid leukemia in an allograft liver mimicking an acute rejection

Authors and Co-authors details: Sheba SK Jacob

Dr Shivaraj Afzalpurkar, (Associate Consultant),
Gastroenterology-Medical, Apollo Hospitals, Kolkata

431. Difficult biliary cannulation for intradiverticular papilla: Forceps technique revisited

Authors and Co-authors details: Goenka MK, Rodge GA, Shah BB, Afzalpurkar S

Publishing Journal and date: The Surgery Journal, July 2021

432. Best of the best articles of 2020

Authors and Co-authors details: Mahesh Kumar Goenka, Shivaraj Afzalpurkar

Publishing Journal and date: Journal of Digestive Endoscopy, March 2021

433. Successful extraction of hepatic duct calculus using retrieval basket under cholangioscopic guidance

Authors and Co-authors details: Goenka MK, Afzalpurkar S, Rodge G, Goenka U

Publishing Journal and date: Endoscopy Journal, 2022

434. Authors reply to comment on article: Single balloon enteroscopy in management of small bowel disorder

Authors and Co-authors details: Goenka MK, Afzalpurkar S, Shah BB, Rodge GA, Goenka U

Publishing Journal and date: Indian Journal of Gastroenterology, September 2021
Dr Shruthi P, Radiology, Apollo Hospitals, Jayanagar


Authors and Co-authors details: Panduranga S, Kade S, Shivakumar S


Dr Smita Malhotra, Pediatric Gastroenterology and Hepatology, Indraprastha Apollo Hospitals, Delhi

436. Progressive familial intrahepatic cholestasis: A study in children from a liver transplant center in India

Authors and Co-authors details: Sagar Mehta, Karunesh Kumar, Ravi Bhardwaj, Smita Malhotra, Neerav Goyal, Anupam Sibal

Publishing Journal and date: Journal of Clinical and Experimental Hepatology, 2021

Dr Soma Agrawal, (Jr. Consultant), Transfusion Medicine, Indraprastha Apollo Hospitals, Delhi

437. Implication of a positive virtual crossmatch with negative flow crossmatch: a mind boggler

Authors and Co-authors details: Chowdhry M, Agrawal S, Thakur Y

Publishing Journal and date: Asian J Transfus Sci, 2020

438. Exchange transfusion in neonatal hyperbilirubinemia: A single centre experience from Northern India

Authors and Co-authors details: Kakkar B, Agrawal S

Publishing Journal and date: Transfus Apher Sci, 2019

439. A case report on anti-MIA antibody in a multi-transfused patient from India

Authors and Co-authors details: Agrawal S, Chowdhry

Publishing Journal and date: Transfus Apher Sci, 2019

440. Therapeutic plasma exchange in voltage-gated potassium channel autoimmune encephalitis

Authors and Co-authors details: Chowdhry M, Gajulapalli S, Agrawal S

Publishing Journal and date: Transfusion and Apheresis Science, 2020

441. A case of rare anti-Hro alloantibody in a tertiary care centre in India

Authors and Co-authors details: Chowdhry M, Agrawal S

Publishing Journal and date: Asian J Transfus Sci, 2019

442. Therapeutic Immuno adsorption and Conventional Plasma Exchange in ABO-incompatible Renal Transplant: An Exculpatory Evidence

Authors and Co-authors details: Agrawal S, Chowdhry M, Makroo R N

Publishing Journal and date: Cureus, 2019

443. Daratumumab: The perplexity in immunohematology with emerging horizons in myeloma therapy

Authors and Co-authors details: Soma Agrawal, Mohit Chowdhry, Prashant Karna, Ankit Agrawal

Publishing Journal and date: Asian Journal of Transfusion Science, 2020
444. Role of therapeutic plasma exchange in acute humoral rejection patients undergoing live-related renal transplantation: A single-center experience

**Authors and Co-authors details:** Brinda Kakkar, Raj Nath Makroo, Soma Agrawal, Mohit Chowdhry, Sweta Nayak, Sanjiv Jasuja, Gaurav Sagar, Sandeep Guleria

**Publishing Journal and date:** Asian Journal of Transfusion Science, January 2021

**Dr Soma Dutta,** Microbiology, Apollo Hospitals, Kolkata

445. Successful treatment of disseminated nocardiosis in a recepient of renal transplant

**Authors and Co-authors details:** Soma Dutta, Ujjwayini Ray

**Publishing Journal and date:** The National Medical Journal of India, 2021

**Dr Somali Ghosh,** Radiology, Apollo Hospitals, Kolkata

446. Differentiating COVID-19 from swine flu pneumonia on HRCT test

**Authors and Co-authors details:** Somali Ghosh, Nilu Malpani, Usha Goenka, Surabhi J, Sumit Datta

**Publishing Journal and date:** American Journal of Diagnostic Imaging, 2021

**Dr Sourav Mishra,** Medical Oncology, Apollo Hospitals, Bhubaneswar

447. Cutaneous involvement in diffuse large B cell lymphoma at presentation: report of two rare cases and literature review

**Authors and Co-authors details:** Sindhu Kilaru, Soumya Surath Panda, Sourav Mishra, Debahuti Mohapatra, Manas Baisakh, Spoorthy Kolluri, Suma Devaraj, Lalatendu Moharan, Ghanashyam Biswas

**Publishing Journal and date:** Journal of the Egyptian National Cancer Institute, 2021

448. Osseous Ewing’s Sarcoma in children: Challenges in local treatment and its impact on treatment outcome

**Authors and Co-authors details:** Panda SP, Mishra SK, Pradhan ND, Panda SS, Khadenga CR, Mishra SK, Das RK

**Publishing Journal and date:** Annals of RSCB, ISSN:1583-6258, Volume 25: Issue 3, 2021

449. Bimodal multispectral imaging system with cloud-based machine learning algorithm for real-time screening and detection of oral potentially malignant lesions and biopsy guidance

**Authors and Co-authors details:** Dr Sourav

**Publishing Journal and date:** Journal of Biomedical Optics, Volume 26, August 2021

**Dr Srinivas Chilukuri,** Radiation Oncology, Apollo Proton Cancer Centre

450. Adjuvant radiation for prostate cancer: too early to abandon?

**Authors and Co-authors details:** Srinivas Chilukuri, Vedang Murthy

**Publishing Journal and date:** BJU International, 2021

**Dr Srinjoy Saha,** Plastic Surgery, Apollo Hospitals, Kolkata

451. Life-threatening pan facial wild dog bites in a child

**Authors and Co-authors details:** Saha Srinjoy

**Publishing Journal and date:** Wilderness Environ Med, 2021

452. Gestational gigantomastia with massively haemorrhagic ulcers

**Authors and Co-authors details:** Saha Srinjoy
Publishing Journal and date: Postgrad Med J, 2021

453. Minimalistic reconstruction of exposed skull in a complex craniovertebral polytrauma

Authors and Co-authors details: Saha Srinjoy

Publishing Journal and date: Neurol Int, 31st May 2021

454. Tissue engineered successful reconstruction of a complex traumatized lower extremity

Authors and Co-authors details: Saha Srinjoy

Publishing Journal and date: Journal of Orthopaedic Case Reports, September 2021

455. Minimally invasive successful reconstruction of a severely traumatized upper extremity using platelet-rich plasma and tissue scaffold: A case report

Authors and Co-authors details: Saha Srinjoy

Publishing Journal and date: Surg J (N Y), 2022

Dr Steve Paul Manjaly, Geriatric Medicine, Apollo Hospitals, Bangalore

456. Do medical interns have adequate training in geriatric medicine? A study on the knowledge and attitudes of interns toward older patients at a medical college in Kerala, South India

Authors and Co-authors details: Steve Paul Manjaly, Anu Francis, Aaron David Kotturan

Publishing Journal and date: Journal of the Indian Academy of Geriatrics, 2021

Dr Subir Ray, Diabetes and Endocrinology Kolkata

457. Assessing prevalence and predictors of depression in Type 2 Diabetes Mellitus (DM) patients - The DEPDIAB study

Authors and Co-authors details: Dr Subir

Publishing Journal and date: Diabetes Res Clin Pract, July 2021

458. Effects of a technology-assisted integrated diabetes care program on cardiometabolic risk factors among patients with type 2 diabetes in the Asia-Pacific region: The JADE program randomized clinical trial

Authors and Co-authors details: Dr Subir

Publishing Journal and date: JAMA Netw Open, April 2021

459. Testosterone replacement therapy in men with type 2 diabetes mellitus and functional hypogonadism—an Integrated Diabetes and Endocrine Academy (IDEA) consensus guideline.

Authors and Co-authors details: Dr. Subir

Publishing Journal and date: Diabetes and Metabolic Syndrome: Clinical Research and Reviews, Volume 15: Issue 4, July–August 2021

Dr Sudha Ranganathan, Transfusion Medicine, Apollo Jubilee Hills, Hyderabad

460. Significance of adopting nucleic acid amplification technique for blood donor screening in a resource limited setting: A study from a single centre in South India

Authors and Co-authors details: Ranganathan S, Iyer R N, Balakrishna N

Publishing Journal and date: Indian J Hematol Blood Transfus, 2021
Dr Sudipta Sekhar Das, Transfusion Medicine, Apollo Hospitals, Kolkata

461. Plateletpheresis in the era of automation: Optimizing donor safety and product quality using modern apheresis instruments

Authors and Co-authors details: Sudipta Sekhar Das, Subrata Sen, R U Zaman, Rathindra Nath Biswas

Publishing Journal and date: Indian Journal of Hematology and Blood Transfusion, 2021

462. Kolkata successful convalescent plasma therapy in a child with severe coronavirus disease

Authors and Co-authors details: Sudipta Sekhar Das, Kaustabh Chaudhuri, Rathindra Nath Biswas

Publishing Journal and date: Indian Pediatrics, January, 2021

463. Blood component therapy in coronavirus disease-2019 patients hospitalized in a tertiary care center in Eastern India

Authors and Co-authors details: Sudipta Sekhar Das, Rathindra Nath Biswas

Publishing Journal and date: Global Journal of Transfusion Medicine, 2021


Authors and Co-authors details: Sudipta Sekhar Das, Rathindra Nath Biswas, Subrata Sen

Publishing Journal and date: Global Journal of Transfusion Medicine, 2021

465. Immunohematological and clinical characterization of complement and non-complement associated warm autoimmune haemolytic anemia and risk factors predicting their occurrences

Authors and Co-authors details: Sudipta Sekhar Das, Anupam Chakrapani, Soumya Bhattacharya, Rathindra Nath Biswas, Mahammad Safi

Publishing Journal and date: Indian J Hematol Blood Transfus, 2021


Authors and Co-authors details: Sudipta Sekhar Das, Rathindra Nath Biswas, Mahammad Safi

Publishing Journal and date: Asian Journal of Transfusion Science, 2021

467. An insight into the utilization of allogenic blood transfusion and factors affecting blood transfusion in total knee replacement surgery in a tertiary care hospital in Eastern India

Authors and Co-authors details: Sudipta Sekhar Das, Ranjan Kamilya, Rathindra Nath Biswas, Susanta Ghosh

Publishing Journal and date: Asian Journal of Transfusion Science, 2021

468. Alloimmunization to erythrocyte antigens in patients receiving multiple blood transfusions: clinico-immuno hematological and demographic risk factors and impact of extended red cell phenotyping

Authors and Co-authors details: Sudipta Sekhar Das, Rathindra Nath Biswas, Mahammad Safi, Rafique Uz Zaman

Publishing Journal and date: Global Journal of Transfusion Medicine, 2021

469. Evaluation of donor demographic, clinical, and serological characteristics in Covid convalescent plasma donation by plasmapheresis

Authors and Co-authors details: Sudipta Sekhar Das, Rathindra Nath Biswas, Rafique uz Zaman, Subrata Sen
475. Distinct patterns of occurrence, common associations, and survival of patients with second primary malignancies: A 5-year single institute experience with review of literature

**Authors and Co-authors details:** Vadgaonkar RA, Nayak SS, Doni S, Digumarti L, Mullapally SK, Digumarti R

**Publishing Journal and date:** Indian J Pathol Microbiol, October-December 2021

476. Multifocal sclerosing mesenteritis, A rare case report and review of literature

**Authors and Co-authors details:** Sumit Datta, Nilu Malpani, Amit Dutta, Panchali Datta

**Publishing Journal and date:** American Journal of Diagnostic Imaging, 2022

477. Evolving a radiological protocol for cochlear duct length measurement: three audit cycles

**Authors and Co-authors details:** Sunil Narayan Dutt, Sumit Kumar Gaur Swathi, Vadlamani Shrivalli Nandikur

**Publishing Journal and date:** Indian J Otolaryngol Head Neck Surg, 2021


**Authors and Co-authors details:** S N Dutt, A Kumar, AA Mittal, S Vadlamani, SK Gaur

**Publishing Journal and date:** The Journal of Laryngology and Otology, 2021
479. Neurofibromatosis 2: Primary modality of hearing rehabilitation with cochlear implant

Authors and Co-authors details: Dathathri, Anantaramaiah Halyur, Praveen H. Rayanagoudar, Apurva Kumar, Sunil Narayan Dutt


Dr Surabhi Jajodia, Radiodiagnosis, Apollo Hospitals, Kolkata

480. Endovascular management of massive hemoptysis due to covid-19 related pulmonary artery pseudoaneurysm: A rare entity

Authors and Co-authors details: Surabhi Jajodia, Usha Goenka, Debraj Jash, Indrajeet Tiwary, Mahesh Kumar Goenka

Publishing Journal and date: Radiology Case Reports, volume 16, 2021

481. Endovascular management of portal steal syndrome due to portosystemic shunts after living donor liver transplantation

Authors and Co-authors details: Surabhi Jajodia, Anubhav H Khandelwal, Rohit Khandelwal, Abhay K Kapoor, Sanjay S Baijal

Publishing Journal and date: Journal of gastroenterology and hepatology, April 2021

482. Percutaneous Biliary Interventions

Authors and Co-authors details: Usha Goenka, Surabhi Jajodia, Gajanan A Rodge

Publishing Journal and date: Apollo Medicine, December 2021

483. Radiofrequency ablation of parathyroid adenomas: Safety and efficacy in a study of 10 patients

Authors and Co-authors details: Anubhav Harish Khandelwal, Smarth Batra, Surabhi Jajodia, Saurabh Gupta, Rohit Khandelwal, Abhay Kumar Kapoor, Sunil Kumar Mishra, S S Baijal

Publishing Journal and date: Indian Journal of Endocrinology and Metabolism, 2021

Dr Surajit Gorai, Dermatology, Apollo Hospitals, Kolkata

484. Dermatological expert system implementing the ABCD rule of dermoscopy for skin disease identification

Authors and Co-authors details: Saptarshi Chatterjee, Debangshu Deya, Sugata Munshia, Surajit Gorai

Publishing Journal and date: Expert Systems with Applications, 1st April 2021

Dr Suryakanta Pradhan, ENT, Apollo Hospitals, Bhubaneswar

485. Foreign body (Safety Pin) in airway in a 2-month-old baby

Authors and Co-authors details: Surya Kanta Pradhan

Publishing Journal and date: Apollo Medicine, 2021

486. Aural polyp with chronic suppurative otitis media dissembling glomus tympanicum

Authors and Co-authors details: Surya Kanta Pradhan, Sanjeev Gupta, Kamala Kanta Jena

Publishing Journal and date: Apollo Medicine, 2021
487. Is pectoralis myocutaneous flap possible in presence of an ipsilateral chest wall implanted cardia pacemaker

Authors and Co-authors details: Mainak Mallik, Saptarshi Bhattacharya, Suvadip Chakrabarti, Tapas Kumar Kar, Gopal Chandra Ghosh

Publishing Journal and date: Global Journal of Research Analysis, 2020

Dr Suvro Banerjee, Cardiology, Apollo Hospitals, Kolkata

488. SGLT2 inhibitors in heart failure with reduced ejection fraction

Authors and Co-authors details: Uday Sankar Das, Aritra Paul, Suvro Banerjee

Publishing Journal and date: The Egyptian Heart Journal, October 2021

489. Prevalence of cardiovascular risk factors among executive and non-executive workers in an urban public sector office setting: A cross-sectional epidemiological study from eastern India

Authors and Co-authors details: Achintya Bhattacharya, Soumya Patra, Suvro Banerjee

Publishing Journal and date: Indian J Community Med, 2021

490. Expert opinion on P2Y12 inhibitors use in management of acute coronary syndromes: focus on ticagrelor

Authors and Co-authors details: Dr Suvro

Publishing Journal and date: Journal of The Association of Physicians of India (JAPI), October 2021

491. A case of osseocartilaginous defects and cardiovascular anomalies: An ambiguous entity

Authors and Co-authors details: Aritra Paul, Aruni Ghosh, Debasish Banerjee, Suvro Banerjee

Publishing Journal and date: Journal of Asian Pacific Society of Cardiology, 2022

Dr Swarnalata G, Histopathology, Apollo Jubilee Hills, Hyderabad

492. Banff Meetings from 1991 to 2019. A significant contribution to our understanding and reporting of allograft renal biopsies. A review

Authors and Co-authors details: Swarnalata Gowrishankar

Publishing Journal and date: Indian J Nephrol, 2022

493. Kidney transplant dysfunction in a patient with COVID – 19 infection: role of concurrent Sars-Cov 2 nephropathy, chronic rejection and vitamin C-mediated hyperoxalosis

Authors and Co-authors details: Urmila Anandh, Swarnalata Gowrishankar, Alok Sharma, Alan Salama, Indranil Dasgupta

Publishing Journal and date: BMC Nephrology, 2021

494. Whole-slide imaging vs 'eyeballing': the future in quantification of tubular atrophy in routine clinical practice

Authors and Co-authors details: Gupta K, Maitra D, Gowrishankar S

Publishing Journal and date: Indian J Nephrol, 2022

495. A rare case of APRT deficiency with end stage renal failure and successful renal transplant

Authors and Co-authors details: Manish Sharma, Swarnalata Gowrishankar, Tarun K Jeloka

Publishing Journal and date: Ind J Nephrol, 2021
Dr Swathi Vadlamani, (Associate consultant), ENT, Apollo Hospitals, Bangalore

496. An unusual case of ear mould impression material as a foreign body in the middle ear: case report

Authors and Co-authors details: D Manjunath, S Vadlamani, SK Gaur, SN Dutt

Publishing Journal and date: The Journal of Laryngology and Otology, 2021

Dr Swetha Lakshmi Narla, Histopathology, Apollo Cancer Institute, Chennai

497. Sporadic Inclusion Body Myositis: A Clinicopathological Study

Authors and Co-authors details: Sundaram Challa, Saumya Jakati, Swethalakshmi Narla, Megha S Uppin, Meena A Kannan, M K Murthy Jagarlapudi

Publishing Journal and date: Neurol India, May-June 2021

Dr Syamasis Bandopadhayaya, Medicine, Apollo Hospitals, Kolkata

498. Radiotherapy for lung cancer during the COVID pandemic—a narrative review of practical recommendations

Authors and Co-authors details: Dr Syamasis

Publishing Journal and date: Journal of Medicine and Radiation Oncology, 2021

499. Expert panel consensus statements on the optimal usage of rituximab for the management of rheumatoid arthritis in India

Authors and Co-authors details: Dr. Syamasis

Publishing Journal and date: Indian Journal of Rheumatology, 2021

500. Treatment adherence of patients with rheumatoid arthritis during Covid-19 Pandemic

Authors and Co-authors details: Syamasis Bandyopadhyay, Susobhan Mondal

Publishing Journal and date: Open Journal of Rheumatology and Autoimmune Diseases, 2021

501. A brief outline of COVID-19 specific therapy in hospitalized patients in India

Authors and Co-authors details: Syamasis Bandyopadhyay, Tanushree Susobhan

Publishing Journal and date: Journal of the Indian Medical Association, 2020

Dr Tapan Kumar Das, Infection control, Apollo Hospitals, Kolkata

502. Potential problems of inadequate air removal and presence of non-condensable gasses in a steam sterilization process: A brief discussion

Authors and Co-authors details: Tapan Kumar Das, Samir Kumar Laha, Debabrata Basu

Publishing Journal and date: Infection Control and Hospital Epidemiology, Volume 41: Issue 6, 2020

Ms Tinku Adhikary, Nursing Superintendent, Apollo Hospitals, Kolkata

503. Effectiveness of the Self-Instruction Module (SIM) on patient knowledge about contributing factors and the prevention for toileting-related adult patient falls and injuries during early morning hours

Authors and Co-authors details: Ms Tinku Adhikary, Ms Lakshmi Bhattacharya, Ms Paulami Roy Choudhury, Ms Premlata Biswal, Ms Rohini Sharma

Publishing Journal and date: IOSR Journal of Nursing and Health Science (IOSR-JNHS, October 2021
Dr U K Misra, Neurology, Apollo Medics Hospitals, Lucknow

504. Mechanism, spectrum, consequences and management of hyponatremia in tuberculous meningitis

Authors and Co-authors details: Misra UK, Kalita J,
Publishing Journal and date: Wellcome Open Research, Volume 4, 2021

505. Is cerebral salt wasting related to sympathetic dysregulation in tuberculous meningitis?

Authors and Co-authors details: Tripathi A, Thakur RS, Kalita J, Patel DK, Misra UK
Publishing Journal and date: Neuroscience Letters, March 2021

506. Impact of anticoagulation status on recanalization and outcome of cerebral venous thrombosis

Authors and Co-authors details: Ashish K Dubey, Jayantee Kalita, Sarvesh K Chaudhary, Usha K Misra
Publishing Journal and date: Journal of Clinical Neuroscience, July 2021

507. A study of glutamate excitotoxicity in seizures related to tuberculous meningitis

Authors and Co-authors details: Abhilasha Tripathi, Jayantee Kalita, Usha K Misra
Publishing Journal and date: Epilepsy Res, December 2021

Dr Ujjwayini Ray, Microbiology, Apollo Hospitals, Kolkata

508. A case of pacemaker associated aspergillus fumigatus endocarditis

Authors and Co-authors details: Ujjwayini Ray, Soma Dutta, Aftab Khan
Publishing Journal and date: Journal of Global Infectious Diseases, 2021

Capt (Dr) Usha Banerjee, Nursing Group Nursing Director, Indraprastha Apollo Hospitals, Delhi

509. Systemic approach to ventilator efficient management (SAVE)

Authors and Co-authors details: Capt (Dr) Usha Banerjee, Ms Aditi, Ms N Rathina
Publishing Journal and date: British Journal Of Pharmaceutical And Medical Research, January –February 2021

510. Empowering Nurses: Goal Oriented Leadership Development Program [Gold] Authors and Co-authors details: Capt Usha Banerjee, Gracy Philip, Maryline Flinsi
Publishing Journal and date: International Journal Of Scientific Research, May 2021

Dr V K Vineeth, (Sr. Registrar), Infectious Disease, Apollo Main Hospitals, Chennai

511. Empyema of gall bladder- Typhoid

Authors and Co-authors details: V K Vineeth, Jagadeesh Chandrasekaran, Aarthee Asokan, P Senthur Nambi
Publishing Journal and date: International Journal of Health Sciences and Research, 2021

Dr Vidhya Tamizhvanan, (Fellow/Senior Registrar), Pediatric Urology, Apollo Children’s Hospitals, Chennai

512. Robotic upper pole heminephrectomy in children– Video demonstration of tips to preserve the normal moiety

Authors and Co-authors details: Vidhya Tamizhvanan, Rajiv Padankatti, Sripathi Venkat
Publishing Journal and date: Urology Video Journal, 2022
Dr Vijay Parshuram Raturi, Radiation Oncology, Apollo Medics Hospitals, Lucknow

513. Radiation pneumonitis after palliative radiotherapy in cancer patients with interstitial lung disease

Authors and Co-authors details: Raturi Vijay Parshuram

Publishing Journal and date: Radiother Oncol, August 2021

514. Comparison of a hybrid IMRT/VMAT technique with non-coplanar VMAT and non-coplanar IMRT for unresectable olfactory neuroblastoma using the RayStation treatment planning system—EUD, NTCP and planning study

Authors and Co-authors details: Vijay Parshuram


Dr Vikas P Birla, (Associate consultant), Orthopedics, Indraprastha Apollo Hospitals, Delhi

515. Risk factors and pathogenesis of steroid-induced osteonecrosis of femoral head - A scoping review

Authors and Co-authors details: Vikas Birla, Abhishek Vaish, Raju Vaishya

Publishing Journal and date: Journal of Clinical Orthopaedics and Trauma, October 2021

Dr Vinit Kumar Shrivastava, Neuro-anesthesiology, Apollo Hospitals, Bilaspur

516. To evaluate efficacy of pregabalin for the prevention of etomidate-induced myoclonus: A prospective, randomized, placebo-controlled, double-blind study

Authors and Co-authors details: Vinit Kumar Srivastava, Sanjay Agrawal, Sanjay Kumar, Ambikesh Pandey, Shweta Garewal, Pooja Shree

Publishing Journal and date: Apollo Medicine, 2021

Dr Vishnu Ramanujan, Orthopaedic Oncosurgery, Apollo Proton Cancer Centre

517. Outcomes of vascular resection and reconstruction in extremity soft tissue sarcoma and bone tumors

Authors and Co-authors details: Shah A, Ramanujan V, Muralidharan K, AnRaja A Vasc

Publishing Journal and date: Specialist Int, March 2021
CORPORATE SOCIAL RESPONSIBILITY
CORPORATE SOCIAL RESPONSIBILITY

Billion Hearts Beating Foundation
Apollo Total Health
Total Health Beneficiaries 2022
CORPORATE SOCIAL RESPONSIBILITY

Billion Hearts Beating Foundation (BHB)

Billion Hearts Beating Foundation is a not-for-profit organization founded by Apollo Hospitals. This foundation serves the healthcare needs of citizens, who may not have access to quality care and medicines.

Vision

The vision of BHB is to touch a billion lives through access to free preventive healthcare.

Mission

The mission of the Billion Hearts Beating Foundation is to work towards creating a better India, where basic preventive healthcare is available to all.

Presence

Billion Hearts Beating Foundation operates in 11 states by supporting 213 senior care homes, running two emergency clinics and two day-care clinics thereby serving more than one lakh persons every year.

Projects

The focus is upon preserving life and rendering the best possible quality of life through medical care and community outreach healthcare programmes.

The following are some of the projects undertaken by BHB:

A. Project Aushad:

Project Aushad enables the seniors in care homes to live a life of dignity by:

- Providing personalized free medicines
- Equipping senior care homes with basic healthcare amenities
- Providing nutritious dry rations
- Supplying healthcare kits
- Supplying essential hygiene items
- Conducting various health camps
- Conducting health awareness sessions

Impact

- Over 9500 senior residents were benefitted
- More than 74,000 medicines requests were supplied
- More than 40,000 healthcare amenities, hygiene items and ration kits were supplied
- Over 7000 senior residents benefitted from their health camps
- More than 900 senior residents were impacted by the health awareness sessions

B. Project Prashikshan

Project Prashikshan bolsters the work of those working in public service domains by imparting
training for basic life support (BLS), first aid and cardiopulmonary resuscitation (CPR) for emergency response. These skills are imparted to students, National Cadets Corps (NCC), state police, traffic police, company employees and other citizens who are working in public spaces. This way, the employees/ members of these public service organizations become better 'First Responders'.

Impact

- Over 9500 individuals were trained across India

C. Project Suraksha

Communities and areas that have restricted access to healthcare are offered free periodic health camps to assess and review residents' health.

**Project Suraksha provides essential medical relief through:**

- Health camps that cover preventive health checks
- Health awareness sessions
- Supply of essential healthcare amenities
- Community day-care centres that offer nutritious food, medical treatment and medicines to people from surrounding areas
- Emergency care centres at places of public importance and high traffic that provide immediate critical care

Impact

- Over 5000 individuals benefitted from health awareness camps
- More than 5500 free medicine requests were supplied to communities including transgender homes

D. Free Clinics and Apollo Hospitals Free Community Camps

The aim of Free Clinic initiative is to provide care, first aid, and emergency medical treatment free of cost with provision of lifesaving equipment.

The following are the clinic details:

- Tirumala Tirupati Devasthanams (TTD), Andhra Pradesh - 24/7 Emergency Cardiac Centre
- Koyambedu CMBT, Chennai, Tamil Nadu - 24/7 Emergency Clinic
- Koyambedu CMBT, Chennai, Tamil Nadu - Breastfeeding Room. This is a 24/7 facility, a safe space that women can access in the busy bus service station

- Tambaram and Vanagaram, Chennai, Tamil Nadu- Daycare Clinic

The aim is to target the community living in the mofussil areas on the outskirts of Chennai, having poor access to healthcare.

The purpose of the Apollo Hospitals Free Community Camps is to reach out to the community and provide health awareness and free basic healthcare to those who have inadequate access to medical services.

Impact

- More than 28000 individuals have benefitted from the Apollo Free Clinics

- Over 1.5 lakh beneficiaries have availed the services offered by Apollo Hospitals Free Community Camps

Other Milestones

- BHB launched a special initiative to support transgender communities in Chennai with free medicine distribution and health check-up
• More than 80,000 free medicines request were supplied by BHB

• Over 40,500 healthcare amenities, hygiene kits and ration kits were supplied to seniors in care homes by BHB

• World Yoga Day was celebrated across the country with free yoga sessions in senior care homes

• BHB supported an NGO, Vasavya Mahila Mandali for organizing a fashion show celebrating senior women in Vijayawada

• BHB won an award in the Gold Category in Healthcare for ‘Project Aushad’ in the 9th National CSR Times Award

Total Health

Dr Prathap C Reddy, Founder-Chairperson, Apollo Hospitals Group launched Total Health at Aragonda, Chittoor District, Andhra Pradesh, in the year 2013. Total Health is the Corporate Social Responsibility programme of the hospitals. It aims to provide holistic healthcare for the community through birth, childhood, adolescence, adulthood and the sunset years of life, from Womb to Tomb, as Dr Reddy foresaw. Total Health also operates in the Amrabad area of Andhra Pradesh and Telangana, serving the Chenchu tribe that inhabit the area.

The multi-sectoral work of the Total Health Program includes the following:

HEALTH

Household and Family Health Survey

Total Health initiated a comprehensive mandal level Household and Family Health Survey, to understand and tackle the health and socio-economic needs of the population. The survey covered the population residing across 195 villages of the 32 gram panchayats of Thavanampalle Mandal, Chittoor District, Andhra Pradesh. This baseline survey was
also conducted in Amrabad, Telangana, across 4 mandals and 45 pentas.

CARE

One of Total Health's main priorities has been to mitigate the occurrence of lifestyle diseases such as diabetes, hypertension and cancer through allopathy as well as ayurveda and yoga. Based on the health data collected from mandals in Andhra Pradesh and Telangana, regular management and follow up is conducted.

Mobile Clinics

These are Mobile vans equipped with drug stores, laboratory, generator and running water. These cover villages in Thavanampalle and Irala mandal. The driver takes the medical team to the doorstep of villagers, where they are offered outpatient services.

Satellite Clinics

Two satellite clinics were inaugurated in Thavanampalle and Irala, so that the interior rural community could access healthcare. Most patients in Aragonda suffer from hypertension and diabetes and their periodic management and follow-up is conducted at these satellite centers. In Amrabad, the satellite clinic in Mallapur caters to the health needs of the Chenchu tribal people.
Ayush Clinic

Total Health re-initiated the practice of Ayurveda with the aim to recreate an interest and restore faith in traditional Indian systems of healing. Along with outpatient treatment, therapies like Panchakarma were also introduced. Total health reintroduced Yoga in 27 villages and 27 Government schools through its team of 9 trainers.

CARE - Other significant initiatives undertaken in 2022

- The Aragonda Clinic Model was replicated in the neighbouring mandal of Irala at the request of the community and in collaboration with the Gram Panchayat. By December’22 Irala clinic OPD reached 6500

- On Mother’s Day, health camps were conducted for pregnant and lactating mothers by the visiting senior gynecologists in the Total Health Satellite Clinic Amrabad, Telangana

Health camps for pregnant and lactating mothers on Mother’s Day

Pediatric health camps for Children’s Day

- Comprehensive cancer screening was conducted for 235 beneficiaries in Aragonda

- Pediatric health camps were conducted for 2000 school children in Aragonda and Amrabad for Children’s Day

Camps

School Health Camps

Health check-ups were conducted in all the government schools in Thavanampalle. Over 70 schools and 7,000 students were covered. Children were screened for vision, hearing, dental problems, and anaemia. Their respiratory, cardiac and abdominal systems were also examined. For minor ailments, treatment was provided; for major conditions, a tracked referral to nearby hospitals was given.
Eye and Ear Screening Camps

Over 4,000 people were screened for eye and ear conditions in these camps. More than 1,500 spectacles were provided to the beneficiaries and intraocular lens implants were undertaken for almost 400 patients. Free cataract surgeries were also performed.

NCD and Cancer Screening Camps

NCD camps were conducted in Thavampalle and Irala. There are currently 2,220 people who are under continuous health management. NCD clinics focus on diagnosis through testing, advice on lifestyle changes for better health outcomes, and screening for ailments that are a result of NCDs.

Nutrition Supplementation Centers

For Mothers and Babies

The antenatal and postnatal nutrition programme aims to reduce the maternal and infant mortality rate by preventing anaemia and malnutrition amongst mothers. Six nutrition centres in Chittoor offer supplementary food to almost 500 pregnant and lactating mothers, and their children. The benefits from this intervention are observed through improved maternal health, increased birth weight of the child, and adequate breastfeeding for the child.

For Senior Citizens

The main objective of the geriatric nutrition centres is to improve the quality of life of seniors who are unable to support themselves and are living by themselves. They are offered hot meals six days a week. Consistent access to nutrition helps tackle physiological changes that occur with age, so disease and disability are prevented.
Kitchen Garden

Total Health, in its Aragonda campus supports a diverse range of food producing plants. The aim is to enhance food and nutrition security, and to propagate local produce. As a part of the AYUSH programme expansion, plantation of herbal gardens is being planned. In Amrabad, seeds were distributed to the community for home kitchen gardens, in order to improve food diversity.

Polyhouse Farming

A polyhouse with drip irrigation was initiated on a pilot basis on one acre of land, in Aragonda. Farmers are being made aware of polyhouse technology and of the subsidies being provided by the government to promote this technology.

Nutrition Care – Other significant initiatives undertaken in 2022

- First Geriatric Nutrition Center was started in Amrabad. The center serves midday meals, to seniors who do not have families to support them

- A new kitchen was built at Apollo Isha Vidya Niketan in Aragonda to provide midday meals to students and address food equity and nutrition
WASH

The program aims at three levels: providing access to clean drinking water; providing the tools needed to maintain a hygienic environment; and spreading awareness on healthy habits around cleanliness.

Drinking Water Supply

In Aragonda, Total Health established nine potable drinking water plants in conjunction with the Gram Panchayats, to service individual households. In Amrabad, water scarcity was tackled by helping forest dwellers to conserve water through various measures. Water purification tablets were also distributed within the pentas.

Hygiene and Menstruation Education

Makeshift shower rooms were built using straw and bamboo at Amrabad, so that adults could have daily baths in privacy, without having to travel distances. Total Health also conducted menstruation and hygiene camps for the Chenchu tribe, where common problems areas like pain and excessive bleeding were discussed.

WASH - Other significant initiatives undertaken in 2022

- World Girl Child Day was celebrated by imparting education on menstrual hygiene to 544 students, 24 teachers and 25 anganwadi workers in the Chittoor district

- Marked Republic Day around the theme, 'Patriotism and Hygiene' with 1000 students and 54 teachers in Chittoor.

- Menstrual health awareness was conducted for 500 women in Aragonda along with a round table on environmental and sanitation issues

- Children's Hygiene Fest was conducted that was attended by 165 students, 36 teachers and headmasters of 18 schools from three mandals in Chittoor.

Arogya Rakshak

This platform was formulated in conjunction with Dettol’s Reckitt, for school children, teachers, and health workers in Chittoor. Over 100 schools were on-boarded, across three mandals. Hygiene corners were established to teach children about handwashing and menstruation in a play-way method and awareness drives were conducted.
Livelihood

A part of a healthy life is financial wellness. So developing livelihoods and entrepreneurship programmes through skill training for communities, particularly for women, and empowering them to overcome social, economic and environmental challenges, is an important initiative of Total Health.

Tailoring Training

Unemployed rural women can upskill themselves and generate income through Total Health’s tailoring programme. It comprises of courses for making apparel and jute products. The Aragonda centre, has all the required infrastructure facilities with the latest machinery. Since its inception, 499 women have undergone training and 50 have been employed. In Amrabad, 30 women found employment at the jute packaging workshop.

Refrigeration and Air-conditioning Course (R&AC)

There is a large gap between the demand and supply of skilled people who can take up servicing and repair of air-conditioning and refrigeration devices. Based on this need, Total Health started the R&AC training centre in Aragonda for men between the age of 17 and 30 years. The three-month curriculum was formulated in collaboration with Blue Star Ltd.
Tribal Welfare

At Amrabad, one of the challenges for the Chenchu tribal people is the lack of livelihood. While the skilling centre is situated in the village, Total Health also initiates seasonal projects in settlements across the forest. For example, honey is harvested and strained from both trees and rocks; candles are made with some of the wax derived from the forest; and skipping ropes are made from the sabai grass that grows wild in the forest. Also, naturalists from Amrabad are being trained to work as guides for tourists who would like to explore the bees, bugs, roots, and shoots of the forest there.

Sustainable Lifestyle

Total Health also promotes local potters, bamboo weavers and other craftsmen by using their products around Total Health offices. Solar lights have been put up in Aragonda. Total Health has also joined hands with forest officers in Amrabad to clean the forest and highways by removing all plastic waste.

CLIMATE ACTION

Water and Soil Conservation

The Chenchu tribe in Amrabad is being trained in the use of a Geographical Information System (GIS). GIS-based maps of the forest's wildlife corridors and conservation hotspots are being developed by using the community knowledge and expertise. They also provide data on the rapid changes in landscape due to climate change (drying of water bodies) and anthropization.

Forest Guard Protection

In tandem with the World Wide Fund (WWF) for Nature, Apollo Hospitals supports the forest rangers' health, by conducting periodic health camps, offering treatment to those involved in people-wildlife conflicts, treating those with forest-related injuries (fractures, bites) and other illnesses.
Community Engagement

Total Health brings people together to foster a sense of community wellbeing and shared experiences. Total Health has invested in both sports infrastructure and events in Aragonda and Amrabad.

Sports Facility

The Total Health office complex in Aragonda houses a football ground, a 100 metre and a 200 metre walking track, a badminton court, tennis court and a gymnasium. There is also a partially closed area for people of the community to attend yoga sessions. Total Health sponsored the first state-level kho-kho premier league at Chittoor. In addition to organising sports tournaments, Total Health provides sports material to support government schools in Thavanamapalle.

Education

The Apollo Isha Vidhya Niketan was founded in Aragonda, with the Isha Foundation. It follows the Andhra Pradesh State Board syllabus, with English as a means of instruction. Scholarships were awarded to children who excelled. In addition, Total Health has supported government schools in the maintenance activities such as painting work and repair of school buildings and toilets, providing desks, provision of drinking water, wall paintings and electrification.
Community Engagement - Other significant initiatives undertaken in 2022

- A sports tournament was organized on Sankranti at Total Health’s Aragonda office grounds for over 1100 members of the community

- On the occasion of International Day of Sports, Total Health conducted traditional sports and archery for the forest dwelling tribal youth and women. The event was followed by dialogue on coexisting with the forest in collaboration with Total Health and Telangana Forest Department

- For the World Environment Day, one of India’s longest forest cleanup drive was conducted, spanning 150 km from NSTR in Andhra Pradesh to Amrabad Tiger Reserve in Telangana. Picking up of plastic and glass waste from forest roadsides was performed.

Arrjava Project

The Arrjava Project is a green-skilling initiative that works with indigenous tribal communities to create locally sourced products and provide livelihood opportunities. At Total Health’s skilling centres, women and men are trained to fashion their traditional crafts to suit urban design needs. Total Health provides market linkages to keep the tribal skills and the craft alive.

Arrjava Warriors

Total Health recruits’ people from the community as Arrjava Warriors – frontliners, crucial to every new chapter of the programme. The Arrjava Warriors, are trained in basic life support, document in health data, mobilizing people to participate in health camps
and livelihood programmes, facilitate tele-
consultations and conduct community Yoga.

Arrjava Project - Other significant initiatives undertaken in 2022

- Launched the Arrjava line of candles, 'Dance of the Bumblebee' in floral honey fragrance. The fragrance was recreated to replicate the smell of the forest of Amrabad Tiger Reserve

- The beeswax jar and taper candles were handmade by Chenchu tribal women at the green skilling workshop in Amrabad Tiger Reserve to extend an alternate livelihood opportunity.

**Total Health Beneficiaries**

<table>
<thead>
<tr>
<th>S. NO</th>
<th>Activity</th>
<th>Beneficiary Numbers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Care</td>
<td>48,345</td>
<td>Number of beneficiaries from Total Health camps and clinics</td>
</tr>
<tr>
<td>2</td>
<td>WASH</td>
<td>47,998</td>
<td>Number of students and teachers mobilized through education for hygiene and sanitation</td>
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<tr>
<td>3</td>
<td>Alternate Livelihood</td>
<td>1,16,845</td>
<td>Number of jute bags, apparels, candles, baskets and honey bottles manufactured at the Total Health green skilling centres</td>
</tr>
<tr>
<td>4</td>
<td>Community Engagement and Health Education</td>
<td>45,707</td>
<td>Number of beneficiaries mobilized through well-being programmes</td>
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<tr>
<td>5</td>
<td>Mobile Clinics</td>
<td>14797</td>
<td>Number of beneficiaries availing mobile clinic facilities</td>
</tr>
<tr>
<td>6</td>
<td>Satellite Clinics</td>
<td>9180</td>
<td>Number of beneficiaries availing satellite clinic facilities</td>
</tr>
<tr>
<td>7</td>
<td>Ayush Wing</td>
<td>489</td>
<td>Number of beneficiaries taking Ayush treatment</td>
</tr>
</tbody>
</table>

*Arrjava warriors – frontlines, helping the communities*
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Indian Medical Association (IMA) Lifetime Achievement Award 2022 239
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Global Artificial Intelligence Summit and Awards 2022 248
Best Ed-tech Deployment Award 2022 249
The WEEK- Hansa, Research Survey 2022 249
The Newsweek, World's Best Hospitals 2022 249
All India Lifestyle Hospital and Clinic Ranking Survey 2022 250
All India Critical Care Hospital Ranking Survey 2022 250
Economic Times Iconic Brand of India Award 2022 250
Most Impactful Brand Award 2022 250
Most Admired Ecommerce Company of the Year 2022 250
Apollo Hospitals was recognised and felicitated at various National and International platforms for their achievements and contributions, in the year 2022.

**FILA Award 2022**

Dr Prathap C Reddy, Chairman, Apollo Hospitals Group was conferred with the Lifetime Achievement Award by Forbes India for his colossal vision in revolutionizing healthcare delivery in India.

**Indian Medical Association (IMA) Lifetime Achievement Award 2022**

Dr Prathap C Reddy, Chairman, Apollo Hospitals Group was conferred with Lifetime Achievement Award at the Young Doctors Leadership Summit organised by the IMA, Tamil Nadu State Branch (IMA TNSB) for his immense service to the Medical and Hospital Industry in India.
Sir Jehangir Ghandy Medal 2022

Dr Preetha Reddy, Executive Vice Chairperson, Apollo Hospitals Enterprise Limited was conferred with the Sir Jehangir Ghandy Medal for Industrial and Social Peace by XLRI India, for her exemplary service in advancing healthcare.

Women in Excellence Healthcare Award 2022

Dr Sangita Reddy, Joint Managing Director, Apollo Hospitals Enterprise Limited was conferred with the Women in Excellence Healthcare Award by the prestigious Federation of Indian Chambers of Commerce and Industry (FICCI).

CEO Today Healthcare Awards 2022

Ms Suneeta Reddy, Managing Director, Apollo Hospitals was conferred with the Economic Times Businesswoman of the Year award by Today Magazine.

Moneycontrol Family Business Leader Award 2022

The award was conferred to Apollo Hospitals Enterprise Ltd for the Best COVID-19 Response for its contribution to the battle against the pandemic over the last two years.
UAE Waterfalls Global Award 2022

The Waterfalls Global Award is a global initiative that honours health care organizations and medical professionals around the world who faced frontline adversity during humanitarian missions.

The award was conferred to Apollo Hospitals Group for services rendered to humanity during the pandemic period.

HMA Awards 2022

The Hospitals Management Asia (HMA) Awards recognizes and honours hospitals in Asia that implement best practices. It is a prestigious award program for the Asia Pacific Region. The Awards ceremony was held at Bangkok.

The awards won by Apollo Hospitals were:

*Category: Best in Community Involvement*
Apollo Proton Cancer Centre - Project "I Can-Cer Vive": Cancer Survivorship Follow Up care in the community

*Category: Patient Experience Improvement*
Apollo Hospitals, Chennai - Discharge Improvement Process.

International Hospital Federation (IHF) Awards 2022

The International Hospital Federation Awards are recognized around the world as the premier award programme to honor hospitals and healthcare organizations. The IHF Awards Ceremony was held in Dubai.

The awards won by Apollo Hospitals were:

*Category: Dr Kwang Tae Kim Grand Hospital Award*
Apollo Hospitals, Chennai

Apollo Proton Cancer Centre

Category: Seddiqi Holding Excellence Award for Corporate Social Responsibility

Apollo Children’s Hospitals, Chennai - Save a Child’s Heart initiative

Apollo Proton Cancer Centre - “I Can-cer Vive”: Cancer survivorship follow-up care in the community

Category: Ashikaga-Nikken Excellence Award for Green Hospitals

Apollo Proton Cancer Centre - Nature’s Footprint

Category: Sultanate of Oman Excellence Award for Health Services During Crisis

Apollo Hospitals, Chennai - Innovation in infection control: a recipe for success

Category: Austco Excellence Award for Quality and Patient Safety

Apollo Proton Cancer Centre - “Winnable Battles” – chasing the elusive dream of zero hospital-acquired infections in entirety.

Asia Pacific Hand Hygiene Excellence Award 2022

This award platform aims to identify and celebrate those hospitals who have contributed to improving patient safety through their excellence, enthusiasm and innovatory methods. The APHHEA ceremony was held in Singapore.

The award was conferred on Apollo Hospitals, Chennai for Excellence in Hand Hygiene.

Digital Health Most Wired Survey 2022

The Digital Health Most Wired survey and recognition program serves as a comprehensive “Digital Health Check-Up” for healthcare organizations across the world.

Apollo Hospitals Enterprise Limited, received Level 9 achievement for Acute and Ambulatory care setting in the coveted 2022 Digital Health Most Wired Survey results released by the College of Healthcare Information Management Executives (CHIME).
Economic Times Award 2022

The Economic Times Healthcare Awards recognize and acknowledge the groundbreaking contributions of the leaders and movers from various areas of the healthcare sector.

The awards won by Apollo Hospitals were:

**Category: Best Multi-Speciality Hospital**
Apollo Hospitals Enterprise, Navi Mumbai (National)

**Category: Best Hospital – Cardiology**
Apollo Hospitals, Chennai (National)

**Category: Best Hospital – Nephrology**
Apollo Hospitals, Chennai (National)

**Category: Best Hospital - Gastroenterology and Hepatology**
Apollo Multispeciality Hospitals, Kolkata (National)

**Category: Outstanding Research in Healthcare – Oncology**
Apollo Proton Cancer Centre (National)

Most Preferred Workplace Award 2022

The award was conferred on Apollo Hospitals, Ahmedabad for the category of Health and Wellness.

Best Medical Tourism Facility Award 2022

The award was conferred on Apollo Hospitals, Hyderabad for the best Medical Tourism Facility.

CII TN MedClave Award 2022

The award was conferred on Apollo Proton Cancer Centre, Chennai for excellence in the field of Oncology.
Health Marcom Awards 2022

The award was conferred on Apollo Proton Cancer Centre, Chennai as the best social media campaign for ‘The wish of a (K)nightingale – way thro Digital Media’ at the 3rd edition of Health Marcom Awards 2022 under the Healthcare Category.

AHPI Global Conclave 2022

The awards won by Apollo Hospitals were:

Category: Nursing Excellence
Apollo Proton Cancer Centre, Chennai
Apollo Hospitals, Bhubaneswar
Apollo Hospitals, Vanagaram

Apollo Cancer Hospital, Teynampet received the award for the 'Best Hospital in Oncology'.
Category: Green Hospitals
Apollo Multispecialty Hospitals, Kolkata
Category: Patient-friendly Hospital
Indraprastha Apollo Hospitals, New Delhi
Category: Digital / Smart Hospitals
Apollo Jubilee Hills, Hyderabad

Outstanding Healthcare Leadership Award 2022

Apollo Hospitals was conferred the 'Outstanding Healthcare Leadership Award in India' by Global Health Awards 2022.

CII - SR Kaizen Award 2022

The award was conferred on Apollo Cancer Centre, Teynampet for Patient Safety Initiatives

CII Awards 2022

The awards won by Apollo Hospitals were:
Apollo Women's Hospital, Chennai for Excellence in the field of Women and Child Care
Apollo Proton Cancer Centre for Best Oncology Hospital
Apollo Main Hospital, Chennai for the Best Hospital for Nephrology

Global Healthcare Achievement Awards 2022

The award was conferred on Apollo Hospitals, Ahmedabad for the 'Most Trusted Multispecialty Healthcare Organization'.

CII – Circle Competition Award 2022

The award was conferred on Apollo Hospitals, Trichy for -

Category: Safety Improvement category- Gold winner

Projects: – Touching lives: for conducting free pediatric cardiac camp & interventional procedures
– Hand hygiene: a life saviour

Category: Quality Improvement -Silver award

Projects- Effectiveness of CPR training
ICC National Healthcare Summit 2022

The award was conferred on Apollo Cancer Centre, Teynampet as the best hospital of the year in the Southern Region.

Medisafecon Award 2022

The award was conferred on Apollo Multispecialty Hospitals, Kolkata for ‘Reduction of Repeat Medication Error’

BW Businessworld Recycle Award 2022

The award was conferred on Apollo Multispecialty Hospitals, Kolkata for the Best Waste Management Initiative by a Private Organization.

Health Conclave 2022

The award was conferred on Apollo Multispecialty Hospitals, Kolkata for ‘Excellence in Emergency Care’ by Zee 24.

State Business Leadership Award 2022

The award was conferred on Apollo Hospitals, Bhubaneswar and the forum was organized by IT Media Network.

Medication Safety Quiz – CAHO 2022

Indraprastha Apollo Hospitals, New Delhi was the winner in the Pan Asian region.

Quality Council Awards 2022

The awards won by Apollo Hospitals were:

Category: DL Shah Quality award

Indraprastha Apollo Hospital, Delhi (Gold Award) for the patient safety project CALL-A-CAB-66 (Heart to brain drive)

Category: Prof S K Joshi Laboratory Excellence Award

Apollo Cancer Hospital, Teynampet for Laboratory Excellence
Times Healthcare Achievers Tamil Nadu Award 2022

The award was conferred on Apollo Proton Cancer Centre as the Best Oncology Hospital for its contributions towards the field of oncology.

CAHOCON Award 2022

The awards won by Apollo Hospitals were:

Category: Large Health Care Organizations
Apollo Hospitals, Mumbai for CAHO-3M Awareness Compliance Excellence (ACE) For CSSD

Category: General and Support Services
Apollo Health and Lifestyle Ltd, Hyderabad for poster presentation

Food and Drug Consumer Welfare Committee (FDCWC) Award 2022

The award was conferred on Apollo Hospitals, Navi Mumbai for the 'Largest Vaccination Drive'.

Zee 24 Taas Award 2022

The award was conferred on Apollo Hospitals, Navi Mumbai for the 'Best Hospital in Mumbai'.

Navbharat Health Care Award 2022

The award was conferred on Apollo Hospitals, Navi Mumbai for best Super Specialty Hospital in the Western Region

South Asia Pacific Healthcare Summit and Business Award 2022

The award was conferred on Apollo Cancer Hospital, Teynampet for best healthcare organization
Ayushman Bharat Pradhan Mantri Jan Arogya Yojana - QCI Certification 2022

The award was conferred on Apollo Hospitals, Guwahati for the Silver Quality Standards

News 18 Assam Health care Excellence Award 2022

The award was conferred on Apollo Hospitals, Guwahati for –
- Best Multi-specialty Hospital
- Excellence in Critical Care
- Preventive Health Check Program

News 18 Kannada Health care Excellence Award 2022

The award for 'Best Corporate Multi-Speciality Hospital' was conferred on:
- Apollo Hospitals, Bangalore
- Apollo Hospitals, Mysore
- Apollo Hospitals, Seshadripuram

Brand Impact Award 2022

The award was conferred on Apollo Adlux Hospital, Kochi for best Multi-Speciality Hospital Providing COVID 19 Solutions for Community Care in Kerala

HR Excellence Award 2022

The award was conferred on Apollo BGS Hospitals, Mysore for the best HR practices implemented in the areas of "Talent Retention and Employee Experience"

Global Artificial Intelligence Summit and Award 2022

The award was conferred on Apollo ProHealth for Best Use of AI in Healthcare by All India Council for Robotics and Automation, New Delhi in association with Ministry of Electronics and Information Technology, Government of India.
Best Ed-tech Deployment Award 2022

The award was conferred on Apollo Medvarsity for Higher Education by Entrepreneur India and the Ministry of Electronics and Information Technology.

The WEEK- Hansa, Research Survey 2022

The Best Hospital Survey 2022 conducted by THE WEEK in association with Hansa India, ranks multispeciality hospitals at an all-India level, city level and specialty-wise. Over 2062 doctors (902 physicians and 1,160 specialists) from 17 cities were consulted, in their opinion regarding the top-ranking hospitals in India and hospitals with best-ranking specialties.

Apollo Hospitals, Chennai was ranked as Best Corporate Hospital in the country in 2022.

Indraprastha Apollo Hospitals, Delhi was ranked as the Third Best Corporate Multi-speciality Hospital in the country.

Apollo Hospitals, Navi Mumbai was ranked as the Best Emerging Hospital.

Apollo Hospitals, Kolkata was ranked the First Best Multispeciality Corporate Hospital in the East Zone.

Apollo Hospitals, Chennai and Hyderabad were ranked as the Second and Third best Multispeciality Corporate Hospital in South Zone.

Apollo Hospitals were also ranked as the best multispeciality hospitals in the cities of Chennai, Hyderabad and Kolkata by the survey.

Apollo Hospitals were also ranked as the best multispeciality private hospitals in the cities of Delhi, Bhubaneshwar and Lucknow by the survey.

Apollo Hospitals at Chennai, Delhi, Hyderabad, Bangalore, Kolkata featured amongst the top 17 hospitals in the country in the specialties of Cardiology, Diabetes care, Pediatrics, Gastroenterology, Orthopedics, Oncology, Neurology, Pulmonology.

The Newsweek, World’s Best Hospitals 2022

The rankings represent an expanded universe, with three new countries on the list—Colombia, Saudi Arabia and the United Arab Emirates—bringing the total participants to over 2,200 hospitals in 27 countries.

Apollo Hospitals, Chennai, was ranked amongst the top 250 hospitals in the world.

Apollo Speciality Cancer Hospital, Chennai was ranked amongst the top 250 hospitals for Oncology in the world.

Apollo Children’s Hospital, Chennai was ranked amongst the top 250 hospitals for pediatrics in the world.
All India Lifestyle Hospital and Clinic Ranking Survey 2022

Indraprastha Apollo Hospital, Delhi was ranked as the best multispecialty hospital in India for Plastic Surgery and Hair/Trichology

Apollo Sugar Clinic was ranked as the best Super Clinic Chain for Diabetology in India

Apollo Fertility Clinic was ranked as the best Super Clinic Chain for IVF and Fertility in India

Indraprastha Apollo Hospital, Delhi, was ranked as the best hospital for Bariatrics, Orthopedics, Ophthalmology, Dentistry, Diabetology, Skin and Dermatology in the North

Apollo Multispecialty Hospitals, Kolkata was ranked as the best hospital for Plastic Surgery in the East

All India Critical Care Hospital Ranking Survey 2022

Apollo Hospitals, Chennai was ranked as the Best Multispecialty Hospital in India for Cardiology, Obstetrics and Gyane, Nephrology, Pediatrics, Neuroscience, Urology, Gastroenterology and Hepatology, Emergency and Trauma

Apollo Proton Cancer Centre, was ranked as the Best Single Cancer Speciality in South

Apollo Hospitals, Chennai and Hyderabad were ranked as the Best Multispecialty Hospital in South

Economic Times Iconic Brand of India 2022

The award was conferred on Apollo Pharmacy

Most Impactful Brand 2022

The award was conferred on Apollo Pharmacy by ET Ascent

Most Admired Ecommerce Company of the Year 2022

The award was conferred on Apollo Pharmacy for Omni channel capability, IMAGES Ecommerce
CONSULTANTS’ ACHIEVEMENTS
CONSULTANTS' ACHIEVEMENTS

ACH, Chennai

1. Dr C Sateesh
Pediatrics, Apollo Children's Hospital, Chennai

Professional Societies' Positions
Member, Specialist Board in Pediatrics, National Board of Examination, since March 2022

2. Dr Dhanasekhar Kesavelu
Pediatric Gastroenterology, Apollo Children's Hospital, Chennai

Chapters contributed to text books
Dr Dhanasekhar Kesavelu, Management of Infantile Colic: A Recent Advancement Study, Chapter 6, Current Innovations in Medicine and Medical Science, Editor- Dr Ramesh Gurunathan, Volume 4, B P International, Page 87-96, 2022

Dr Dhanasekhar Kesavelu, Acute Myopathy Leading to Severe Rhabdomyolysis: A Case Report, Chapter 10, Current Innovations in Medicine and Medical Science, Editor- Dr Ramesh Gurunathan, Volume 4, B P International, Page 164-168, 2022

Publications
Dhanasekhar Kesavelu, Neelam Mohan, Anuradha Khadilkar, Vaman Khadilkar, Surender Kumar Yachha, Harendra De Silva, Prashanth Bachina, Consensus of medical nutrition therapy in pediatric clinical practice (2 to 18 Years Old) of South Asian perspective, Annals of Medical and Health Sciences Research, Volume 12: Issue S1: Page 6-21, January-February 2022

Dhanasekhar Kesavelu, Radhakrishnan Satheesan, Use of variceal banding in gastric polyps bleed a prototype technique in children, Gastroenterology, Hepatology and Endoscopy Practice, Volume 2: Issue 2: Pages 68-70, 23rd March 2022


Dhanasekhar Kesavelu, V S Lekha, Sarah Nalliannan, Study about COVID-19 in children: An
aspect to nutritional preponderance and propensity, Current Practice in Medical Science, Volume 1: Page 116-119, 21st June 2022

**Editorial Boards Membership**

Member, Clinical Research Committee, WGO Publications Committee, since 2021

Member, Publications Committee, WGO Publications Committee, since 2021

**3. Dr Revathi Raj**

Clinical Hematology, Apollo Children's Hospital, Chennai

**Professional Societies’ Positions**

Member, Super Specialty Board of Clinical Hematology, National Board of Examination, since March 2022

**4. Dr Shyamala J**

Pediatrics, Apollo Children's Hospital, Chennai

**Professional Societies’ Positions**

Member, Specialist Board in Pediatrics, National Board of Examination, since March 2022

**5. Dr V Sripathi**

Pediatric Urology, Apollo Children's Hospital, Chennai

**Publications**

Vidhya Tamizhvanan, Rajiv Padankatti, Sripathi Venkat, Robotic upper pole heminephrectomy in children – Video demonstration of tips to preserve the normal moiety, Urology Video Journal, Volume 13: Page 100109, March 2022

**Lectures**

Talk, Complicated scenarios in pediatric robotic urology, APAPU Meeting, Seoul, S Korea, Virtual, 20th October 2022

Lecture, Pediatric surgery and urology session, RCS Edinburgh Meet, ITC Grand Chola, Chennai, 8th October 2022

**Professional Societies’ Positions**

Member, Fellowship Specialist Board in Pediatric Urology, National Board of Examination, since March 2022

Proctor, Pediatric Robotic Surgery, Da Vinci, since July 2022

**Examinership**

Examiner, Pediatric Urology Fellowship Examination, 28th September 2022

**6. Dr Vidhya Tamizhvanan**

Pediatric Urology, Apollo Children's Hospital, Chennai

**Chapters contributed to text books**


**7. Dr Vijayasekaran D**

Pulmonology, Apollo Children's Hospital, Chennai

**Chapters contributed to text books**

Dr Vijayasekaran, Pediatric Tuberculosis, Souvenir, Respicon Publisher, 2022

**Orations**

Lecture, Respiratory, Prof T U Sukumaran Oration, PULMOCON Kerala, 15th Annual Conference of IAP, Kannur, 9th September 2022
9. Dr Meghena Mathew

Critical Care, Apollo First Med Hospitals, Chennai

Chapters contributed to text books

Dr Ramesh Venkataraman, Continuous Urine Output Monitoring, Chapter 33, Critical Care Update, Editors- Deepak Govil, Subhash Todi, Rajesh Chandra Mishra, 4th edition, Jaypee Publishers, 2022

Publications

Dr Meghena Mathew, Dr Bharath Kumar TV, Dr Nagarajan Ramakrishnan, Dr C Vignesh, Dr Ebenezer R, Dr Ashwin Kumar Mani, Dr Pratheema Ramachandran, Effect of antiplatelet therapy on survival and organ support–Free days in critically Ill patients with COVID-19, A Randomized Clinical Trial, JAMA, Volume 327: Issue 13: Page 1247-1259, April 2022

10. Dr Vasumathy Vedantham

Pediatric Retina, Apollo First Med Hospitals, Chennai

Awards

Dr Badrinath Sankara Nethralaya Gold medal, for work in Retina for 20 years, Tamil Nadu State Ophthalmic Conference, Coimbatore, August 2022

11. Dr Venkataswami R

Plastic Surgery, Apollo First Med Hospitals, Chennai

Professional Societies' Positions

Member, Fellowship Specialist Board in Hand and Microsurgery, National Board of Examination, March 2022
**APCC, Chennai**

**12. Dr Adhithyan Rajendran**

Radiology, Apollo Proton Cancer Centre, Chennai

**Chapters contributed to textbooks**

Dr Adhithyan Rajendran, Imaging and differential diagnosis of meningioma, Chapter, Meningiomas PGINS monograph series, editors – M C Vasudevan, A V Thamburaj, Suresh Nair, Sanjay Behari, Anil Pande, edition BOHR publications, Page 28th January 2022

**Publications**


**Lectures**

Speaker, Pediatric brain tumors, Indian Society of NeuroOncology, ISNOCON, Gurugram, 13th -14th August 2022

Speaker, Basics of neuroradiology for pediatric endocrinologists, Pediatric Endocrinology Conference, 2022

**Awards**

Fellow, Royal College of Radiologist (FRCR), June 2022

**13. Dr Arjunan Manikandan**

Medical Physicist, Apollo Proton Cancer Centre, Chennai

**Publications**


**14. Dr Bhawna Sirohi**

Medical Oncology, Apollo Proton Cancer Centre, Chennai

**Publications**


15. Dr Manjula Rao
Breast Surgical Oncology and Oncoplastic Surgery, Apollo Proton Cancer Centre, Chennai

Lectures

Lecture, Spoke for the motion, SLNB in Axillary Management after Neoadjuvant Chemotherapy, ABSICON, 10th Annual Congress of Association of Breast Surgeons of India, Hyderabad, 12th -14th August 2022

Lecture, Risk stratification, BRCA testing and its surgical implications in Early Breast Cancer, Perspectives, Evolution and Advances in HER2 negative BRCA mutated Breast Cancer, Webinar, 10th June 2022

Keynote Speaker, Oligometastasis- silver lining in Stage IV Breast Cancer, International Women's Cancer Awareness Day, International Association of Oncology, Webinar, 8th March 2022

Lecture, Can radiotherapy replace ALND after positive SLNB? SABCS Highlights, Breast cancer Update, Yashoda Hospitals, 17th -18th February 2022

Lecture, Nodal recurrence in patients with node-positive breast cancer treated with sentinel node biopsy alone after neoadjuvant chemotherapy- A rare event, 7th Year In Review in Breast Cancer, Tata Memorial Hospital, Mumbai, India, 10th -15th January 2022

Lecture, Factors associated with residual nodal disease among breast cancer patients treated with neoadjuvant chemotherapy: Results of CALGB 40601 (HER2+) and 40603 (triplenegative) (Alliance), 7th Year In Review in Breast Cancer, Tata Memorial Hospital, Mumbai, India, 10th -15th January 2022


Panelist, Case-based MDT by young Turks, ASOMACON, 6th Annual International Conference of the Asian Society of Mastology, Jaipur, 3rd – 6th November 2022

Chairperson, Session 5 (Breast cancer nursing, Role of ICG in breast surgery and lymphedema, ADM, in immediate breast reconstruction), ABSICON, 10th Annual Congress of Association of Breast Surgeons of India, Hyderabad, 12th – 14th August 2022

Panelist, Neoadjuvant therapy in HER-2 positive breast cancer: More than just downsizing - Surgeon's perspective, ABSICON, 10th Annual Congress of Association of Breast Surgeons of India, Hyderabad, 12th – 14th August 2022

Faculty, Breast cancer teaching program, Kauvery Hospital, Chennai, 9th April – 2nd July 2022

Chairperson, Current concepts in axillary management of breast cancer, 4th JIPMER Surgical Update, Puducherry, 8th -10th April 2022

Panelist, Oncoplasty planning - Focussed studies in breast cancer, (FSIBC) Breast Conference, Breast cancer management: Recent advances and the way ahead, Virtual, 11th -12th March 2022

Panelist, Digital advisory on HER2 directed ADC, Chennai, 12th February 2022

Panelist, Apollo National Digital Advisory on HER2 directed ADC, 27th January 2022

Presentations

Poster presentation, Alternative anaesthesia in high-risk breast cancer patients, unfit for general anaesthesia - A report of two cases, ABSICON, 10th Annual Congress of Association of Breast Surgeons of India, Hyderabad, 12th -14th August 2022
Professional Societies’ Positions
Executive Member, Central Quadrant (Young Doctor’s Forum), Breast Global - Global organization concerned with Breast Surgery related Research, Education, and Training, since June 2022

16. Dr Naveen Hedne
Surgical Oncology, Apollo Proton Cancer Centre, Chennai
Publications

17. Dr Noufal MP
Medical Physicist, Apollo Proton Cancer Centre, Chennai
Publications

18. Dr Rakesh Jalali
Radiation Oncology, Apollo Proton Cancer Centre, Chennai
Chapters contributed to text books
Dr Rakesh Jalali, Current oncology perspective and guidelines for meningiomas, Meningiomas PGINS monograph series, Editors- M C Vasudevan, A V Thamburaj, Suresh Nair, Sanjay Behari, Anil Pande, BOHR publications, 28th January 2022

Publications

Jalali R, Panda PK, Gupta T, A Practice pilot survey on the current use of corticosteroid therapy in brain, Tumor Patients, Neurol India, Volume 70: Issue 5: Page 1896-1900, September – October 2022


Jalali R, Chilukuri S, Panda PK, Proton therapy in LMICs: Is the need justified?, JCO Global Oncology, Volume 8: Issue 8, March 2022

Awards

Best Oncologist of the Year Award, Economic Times Healthcare, 18th November 2022

Lifetime Achievement Award, Indian Society of Medical and Pediatric Oncology (ISMPO), Indian Society of Oncology (ISO), 28th October 2022

IBA CAMPUS Award, USERS meeting, Brussels, June 2022

19. **Dr Raymond Dominic Savio**

Critical Care, Apollo Proton Cancer Centre, Chennai

**Chapters contributed to text books**

Dr Raymond Dominic Savio, Severe Head Trauma, Chapter 53, Critical Care Update, Editors- Deepak Govil, Subhash Todi, Rajesh Chandra Mishra, 4th edition, Jaypee Publishers, 2022


Publications


Lectures

Lecture, Trans pterygoid approach- surgical strategies, Neuro Endocon, Delhi, 27th March 2022

Lecture, Posterior fossa ependymomas-Surgical nuances, ISPN, Nimhans, Bangalore, 22nd -24th April 2022

Lecture, Extended Endonasal approaches to clivus, Interim Skull base meeting, Indore, 29th April 2022

Lecture, Surgical approaches to Pineal tumours, TANSCON, Tanjore, 30th April 2022

Lecture, Role of programmable shunts in hydrocephalus, Hydrocephalus CME, Integra Life sciences, Chennai, 28th May 2022

Lecture, Moderated the young neurosurgeons inaugural meeting, Chennai, 11th-12th June 2022

Lecture, Awake craniotomy in eloquent brain, CME, Coimbatore, 25th June 2022

Lecture, Surgical nuances in eloquent brain tumours, CME, Madurai Meenakshi mission hospital,16th July 20222

Lecture, Surgeries on CVJ pathology, SWONS, 30th July 2022
Faculty, Hands-on cadaver workshop, Indore Medical College, Interim SBSSI Meeting, Indore, 29th April 2022

Faculty, Operative Neurosurgery workshop, SOS program, Stryker India Ltd, Apollo Proton Centre, Chennai, 6th-7th May 2022

Faculty, Surgeries in Live operative workshop on CV Junction, SWONS, Chennai, 30th -31st July 2022

Faculty, Hands on microvascular anastomosis workshop, Neurovascon, AIIMS, Raipur, 22nd September 2022

Faculty, Performed Live surgery on awake craniotomy for sensory cortex metastasis in Asia Oceanic IONM Conference, Chennai, 14th October 2022

Faculty, Hands-on Cadaver workshop in Transnasal endoscopic approaches, Neurosurgery Academy, Kilpauk Medical College, 30th December 2022

Organizer, Inaugural physical meeting of the young Neurosurgeons Forum of India, Chennai, 11th -12th June 2022

Organizer, Asia Oceanic Intraoperative Neurophysiology Meeting, Chennai, 14th -16th October 2022

Presentations

Video demonstration, Mirror PICA aneurysms clipping, Neurovascon, AIIMS, Raipur, 23rd September 2022

Video presentation, Lower clival chordoma, skullbasecon, Nimhans, Bangalore, 5th November 2022

Presentation, Giant Vestibular schwannomas, Bangladesh Neurosurgeons association, Webinar, 23rd November 2022
Editorial Boards Membership
Member, Editorial Board, Neurology India, since 2019

Professional Societies' Positions
Secretary, Skull base surgery society of India, since 2022
Founder secretary, Society for intraoperative neurophysiology, since 2022
Executive committee member, Chennai Neuro Association, since 2022
Executive committee member, Tamil N du Association of Neurosurgeons, since 2022

Awards
Mayan Award, Best Neurosurgeon, Chennai, 1st May 2022
The Best Neurosurgeon in Tamil Nadu, Top-notch Foundation, New Delhi, 29th June 2022
Most trusted Neurosurgeon of South India, Atal Achievement Awards Ceremony, Ministry for Rural Development and Steels, Vigyan Bhawan, New Delhi, 21st December 2022

21. Dr Sapna Nangia
Radiation Oncology, Apollo Proton Cancer Centre, Chennai

Publications


22. Dr Srinivas Chilukuri
Radiation Oncology, Apollo Proton Cancer Centre, Chennai

Publications
Chilukuri S, Panda PK, Jalali R, Proton therapy in LMICs: Is the need justified?, JCO Global Oncology, Volume 8: Issue 8, March 2022
23. Dr Sristi Patodia
Critical Care, Apollo Proton Cancer Centre, Chennai

Awards
Clinical Excellence award, Best research activities on COVID, March 2022

24. Dr Sujith K Mullapally
Medical Oncology, Apollo Proton Cancer Centre, Chennai

Publications


25. Dr Sushama Patil
Pathology, Apollo Proton Cancer Centre, Chennai

Publications

26. Dr Utpal Gaikwad
Radiation Oncology, Apollo Proton Cancer Centre, Chennai

Publications


AWH

27. Dr Sunita Samal
Obstetrics and Gynaecology, Apollo Women's Hospital, Chennai

Publications


Lectures
Speaker, Labour dystocia- newer definitions, KOGS- Annual Conference, Chennai, 23rd -24th July 2022
Speaker, Post-partum blues, OGSSICON Annual Conference, Chennai, 22nd - 23rd January 2022

Panelist, Recurrent early pregnancy loss – different reasons, Different Solutions, OGSSICON, Annual Conference, Chennai, 10th - 11th December 2022

Panelist, Endometriosis Workshop, 4th Annual Apollo International Colorectal Symposium, Chennai, 2nd - 4th September 2022

Speaker, Hypertensive disorders in pregnancy- The recent guidelines, MAPIMS OGCON, Melmaruvathur, Tamil Nadu, 23rd December 2022

Chairperson, Early trimester, TNFOG Annual Conference, Chennai, 11th - 13th November 2022

Chairperson, Annual Conference of DIPSI, Chennai, 1st October 2022

Panelist, Medical disorders in pregnancy, Annual International Conference, CHETOGCON, Chennai, 2022

Professional Societies' Positions

Member, External Ethics Committee, ESI Medical College, Chennai, since 2020

Member, External Ethics committee, Rainbow maternity and Children hospital Guindy, Chennai, since October 2021

CBCC, Ahmedabad

28. Dr Vivek Bansal

Radiation Oncology, CBCC Apollo Hospital, Gujarat

Publications


Ahmedabad

29. Dr Akash Bellige

Radiation Oncology, Apollo Hospitals, Ahmedabad

Publications


30. Dr Akshay Shah

General Surgery, Apollo Hospitals, Ahmedabad

Publications


31. Dr Apurva Shah

Gastroenterology, Apollo Hospitals, Ahmedabad

Chapters contributed to text books

Dr Apurva Shah, Evaluation of the recipient for liver transplantation, Chapter 9, Textbook of Liver Transplantation, Editor- Desai Chirag, 1st edition, Paras medical publisher, Page 125-130, 2022

Dr Apurva Shah, Immediate post operative care after liver transplantation, Chapter 42, Textbook of Liver Transplantation, Editor- Desai Chirag, 1st edition, Paras medical publisher, Page 518-529, 2022
Dr Apurva Shah, Non-alcoholic fatty liver disease, Chapter 62, Textbook of Liver Transplantation, Editor- Desai Chirag, 1st edition, Paras medical publisher, Page 831- 840, 2022

32. Dr Ankit Wadhwana
Critical Care Medicine, Apollo Hospitals, Ahmedabad

Chapters contributed to text books
Dr Ankit Wadhwana, Septic Cardiomyopathy, Compendium of Sepsis, World Conference on Comprehensive Critical Care, 13th October 2022

33. Dr Chirag Desai
Gastrointestinal, Hepatobiliary and Liver Transplant surgery, Apollo Hospitals, Ahmedabad

Books published
Editor- Dr Chirag J Desai, Textbook of Liver Transplantation, 1st edition, Paras Medical Publisher, 6th August 2022

Lectures
Lecture, Role of downstaging HCC prior to LT - Who to select and how to define?, 18th Annual Conference, International HepatoPancreatoBiliary Association, Indian Chapter (IHPBA-IC), Chandigarh, 11th – 13th February 2022

Lecture, Cadaver donor evaluation, Certificate Course, International Hepato Pancreato Biliary Association, Indian Chapter (IHPBA-IC), September 2022

Lecture, Successful liver transplant - What does patient expect, AILBS, New Delhi, 9th – 10th December 2022

Awards
Record award, Surgically removing the heaviest tumour in India, India Book of Records, 2nd May 2022

34. Dr Jayesh Prajapati
Interventional Cardiology, Apollo Hospitals, Ahmedabad

Publications

35. Dr Lal Daga
Interventional Cardiology, Apollo Hospitals, Ahmedabad

Lectures
Talk, Remote monitoring, CSI, Chennai, 8th -11th December 2022

Chaired session, SVT, IHRS, Trivendram, Kerla, 28th -30th October 2022

Lecture, Structural Heart Disease, Coronary Imaging, Clip India, New Delhi, 6th August 2022

Organizer, NIC, Ahmedabad, 17th -19th June 2022

36. Dr Maharshi Desai
Internal Medicine, Apollo Hospitals, Ahmedabad

Professional Societies' Positions
Member, Specialist Board in General Medicine, National Board of Examination, since March 2022
37. Dr Manoj Singh
Pulmonology and Critical Care Medicine, Apollo Hospitals, Ahmedabad

Chapters contributed to text books
Dr Manoj Singh, Septic Cardiomyopathy, Compendium of Sepsis, World Conference on Comprehensive Critical Care, 13th October 2022

Publications

Awards
Presidential Citation Award, for a contribution towards ISSCM, 28th Annual Conference of Indian Society of Critical Care Medicine, ISSCM, Ahmedabad, 8th April 2022

38. Dr Mukesh Sharma
Neurology, Apollo Hospitals, Ahmedabad

Publications

39. Dr Pushpa Budania
General Surgery, Apollo Hospitals, Ahmedabad

Publications

40. Dr Sanjay Shah
Trauma Surgery and Emergency Medicine, Apollo Hospitals, Ahmedabad

Chapters contributed to text books


Publications
Dr Sanjay Shah, Dr Vineet Rajput, Dr Shivali Kakadiya, Dr Yogendra Modi, tractor rollover injury – a life threatening blunt chest injury, International Research Journal of Pharmacy and Medical Sciences, Volume 5: Issue 3: Page 34-35, 2022

Professional Societies' Positions

President, Association of Ahmedabad Surgeons, since January 2022

Awards

Best Trauma Surgeon Award, Divya Bhaskar, February 2022

**41. Dr Uvaish Parmar**

General Surgery, Apollo Hospitals, Ahmedabad

Publications


**42. Dr Velu Nair**

Medical Oncology, Apollo Hospitals, Ahmedabad

Publications

Velu Nair, Surinderpal Singh, Mohammad Zahid Ashraf, Uday Yanamandra, Vivek Sharma, Amit Prabhakar, Epidemiology and pathophysiology of vascular thrombosis in acclimatized lowlanders at high altitude: A prospective longitudinal study, The Lancet Regional Health - Southeast Asia, Volume 3: Issue 100016: Page 1-14, August 2022

**Bangalore**

**43. Dr Ambika Gupta**

Medical Genetics, Apollo Hospitals, Bangalore

Chapters contributed to text books

Dr Ambika Gupta, Genetic Testing in Clinical Practice, Chapter 7, Child India, Editor- Dr Jeezon C Unni, Indian Journal of Pediatrics, Page 10-19, January 2022

Lectures

Lecture, Neonatal hearing screening, Newborn Screening Sensitization Programme, Army Base Hospital, Delhi, 8th June 2022

Lecture, Congenital Adrenal Hyperplasia and Congenital Hypothyroidism, Hindurao Hospital, Delhi, 26th July 2022

Lecture, Thalassemia screening, Kalawati Saran Children's Hospital, Delhi, 11th June 2022

Lecture, Hemoglobinopathies, Daulat Ram College, Delhi, 13th October 2022

Awards

First Prize for the Best Super-Speciality Thesis Award, Indian Academy of Pediatrics, Delhi, December 2022

Best DM Thesis in Poster Category for the year 2021 award, for Role of Continuous Glucose Monitoring in assessment and optimization of management of hepatic glycogen storage disorders, Indian Journal of Pediatrics, IJP Annual day, 9th October 2022
44. Dr Aruna R Patil
Radiology, Apollo Hospitals, Bangalore

Publications


Aruna R Patil, Ravishankar Bhat, Madhusudhana Basavarajappa, Spontaneous migration of intraperitoneal mesh into rectum following ventral hernia repair, J Gastrointestinal Abdominal Radiol ISGAR, Volume 6: Page 53–57, 15th August 2022

Aruna R Patil, Tibialis anterior tendon sheath lipoma, RSNA-case collection, https://doi.org/10.1148/cases.20227916, 11th September 2022

Orations
Radiology Quiz, Indian Society of Gastrointestinal and Abdominal Radiology (ISGAR), Bangalore, 4th – 5th September 2022

Lecture, Hepatobiliary imaging, CME, ICRI- IRIA, 17th April 2022

Lectures
Lecture, Gonadal vein: The omitted by lane, Radiological Society of North America (RSNA), Chicago, November 2022

Scientific chairperson, Indian Radiology and Imaging Association Conference, Bangalore, 24th - 27th March 2022

Editorial Boards Membership
Associate Editor, Journal of Gastrointestinal and Abdominal Radiology (JGAR), since 2021

Examinership
Examiner, DNB Radiology practical Exam, February and May 2022

45. Dr Pradeep Kumar K N
Radiation Oncology, Apollo Hospitals, Bangalore

Lectures
Speaker, Oncology and diabetics, RSSDI Conference, Bangalore, 17th -18th December 2022

46. Dr Pushpa Naga C H
Radiation Oncology, Apollo Hospitals, Bangalore

Publications


47. Dr Rani Akhil Bhat
Gynecological Oncology, Apollo Hospitals, Bangalore

Lectures
Lecture, Common gynecological problems and Ways to Boost Women's Health, Mitra Cancer Foundation, Bangalore, 17th September 2022
Lecture, Facts you should know about human papilloma virus, Family Physician CME, Bangalore, 20th March 2022

Lecture, Screening for endometrial cancer, which test and for whom?, Bangalore Manopause Society, Bangalore, 15th March 2022

Awards

Doctorate of National Board (DrNB), Gynecologic Oncology, Apollo Hospitals, Bangalore, 2022

48. Dr Sanjay Pai
Orthopedics, Apollo Hospitals, Bangalore

Professional Societies’ Positions

Member, Fellowship Specialist Board in Arthroplasty, National Board of Examination, since March 2022

49. Dr Sunil Narayan Dutt
ENT, Apollo Hospitals, Bangalore

Editorial Boards Membership

Chairman, Editorial Board Indian Journal of Otolaryngology and Head and Neck Surgery, since January 2022

50. Dr Suryanarayana Sharma
Neurology, Apollo Hospitals, Bangalore

Books Published

Editor- Dr Suryanarayana Sharma, Stroke in Kannada Language, Signs and symptoms, prevention and treatment of stroke, 1st edition, MicroLabs Ltd, October 2022

Lectures

Conference, Mumbai, 14th April 2022

Lecture, IV thrombolysis in acute ischemic stroke, CME, Recent advances in acute stroke, Mandya Medical College, Mandya, 21st April 2022

Lecture, Stroke ready hospitals and Tele stroke, Karnataka Stroke Summit, Bangalore, 15th May 2022

Lecture, Stroke Mimics, Association of Physicians of India, stroke update, Bangalore, 28th May 2022

Lecture, Running / walking and Brain health, Annual Conference of Asia- Oceania Congress of Neurology, Indian Academy of Neurology (AOCN-IANCON), New Delhi, 5th November 2022

Lecture, Recent advances in stroke management, Encode Conference, Kathmandu, Nepal, 25th November 2022

Professional Societies’ Positions

Secretary, Karnataka Stroke Foundation, Bangalore, since April 2021

Secretary General, Society of Neurosonology, since June 2022

EC member, Bangalore stroke support group, since 2019

Examinership

DNB Examiner, Neurology, Guide for DNB student in neurology, FAT exam, August 2022

51. Dr Steve Manjaly
Geriatric Medicine, Apollo Hospitals, Bangalore

Books Published

Editor- Dr Steve Manjaly, The Valence of Silver A Geriatrician’s ode to his grandmother, 1st edition, The write order, October 2022
Publications


Lectures

Speaker, Cognitive frailty- the perfect storm, National conference of the Indian Academy of Geriatrics, GERICON, Calcutta, 28th -30th October 2022

Organizer, Basic principles of Geriatric Medicine, National Seminar, Rasayana Chikitsa, Satayu, Kayachikitsa and PGSA of Vaidyaratnam Ayurveda College, Ollur, Kerala, 26th April 2022

Organizer, Geriatric Rehabilitation, Online Training Programme, Geriatric Care, National Institute of Social Defence and Nightingale’s Medical Trust, Virtual, 25th March 2022

52. Dr Vishwanath Sathyanarayanan

Medical Oncology, Apollo Hospitals, Bangalore

Lectures

Speaker, Treatment of pancreatic cancer: looking below the tip of the iceberg, 8th Annual Conference, ISMPOCON, Mumbai, Virtual, 21st – 30th January 2022

Panelist, Metastatic Breast Cancer, Gujarat Breast Cancer Meet, Ahmedabad, 4th September 2022

Moderator, Case discussion, Unravelling the genomics of lung cancer, CPOEM Foundation, 16th September 2022

Moderator, Case discussion, ALK+ NSCLC featuring, CPOEM Foundation, 5th August 2022

Moderator, Case discussion, Paradigm shift in the management of advanced HCC and cholangiocarcinoma featuring, CPOEM Foundation, 1st July 2022

Moderator, Case discussion, Locally advanced and Metastatic Pancreatic Cancer featuring, CPOEM Foundation, 7th March 2022

Moderator, Case discussion, Relapsed Follicular lymphoma featuring, CPOEM Foundation, 7th October 2022

Presentations

Poster presentation, Occult POEMS syndrome in a case of Castleman Disease, Hematology Cancer Consortium (HCC), Mumbai, 21st -23rd October 2022

Poster presentation, Clinical And Pathological Profile of T cell Lymphomas, Hematology Cancer Consortium (HCC), Mumbai, 21st -23rd October 2022

Bhubaneshwar

53. Dr Amitav Mohanty

Internal medicine, Apollo Hospitals, Bhubaneswar

Chapters contributed to text books

Dr Amitav Mohanty, Hypertension: An Overview, Chapter number, Drugs and Therapeutics –Hypertension, An Evidence-based Treatise for Clinicians, Editors- BA Muruganathan, Bidita Khandelwal, Knowledge Bridge Private Limited, Page number, 31st July 2022

Lectures

Chairperson, East Zone and Odisha Chapter Geriatric Society of India, Lord Jagannath Medical College, Puri, 11th September 2022

Presentations

Paper presentation, Latest On Antifungals A Review, APICON, Jaipur, April 2022
Awards

Honorary Adjunct Title of Distinguished Clinical Tutor, AHERF, 1st April 2022

54. Dr Prasant Kumar Sahoo
Interventional Cardiology, Apollo Hospitals, Bhubaneswar

Awards

Odisha Citizens Award, Health category, OTV Award, September 2022

55. Dr Samarjit Bisoyi
Pain Management, Apollo Hospitals, Bhubaneswar

Awards

Fellowship, Trans-ESophageal Echocardiography, Indian Association of Cardiovascular Thoracic Anaesthesiologists, 2022

56. Dr Saro Pattanaik
Critical Care, Apollo Hospitals, Bhubaneshwar

Awards

Fellowship, General Infectious Disease (FGID), CMC Vellore, September 2022

57. Dr Sharmili Sinha
Critical Care Medicine, Apollo Hospitals, Bhubaneshwar

Chapters contributed to text books

Dr Sharmili Sinha, Selecting appropriate humidification (Active and Passive), Chapter 22, Critical Care Update, Editor- Deepak Govil, 4th edition, Jaypee publishers, Page 110-113, January 2022


Dr Sharmili Sinha, Immunomodulator therapy in Sepsis, Comprehensive Critical Care, December 2022

Dr Sharmili Sinha, Pitfalls in diagnosis of Sepsis, Compendium in Sepsis, October 2022


Publications


Sinha S, Tripathy S, COVID-19 Vaccine-associated Thrombosis (Disseminated Intravascular

271


Lectures

Panel discussion, MDR infections, ISA Tripura State conference, Agartala, 10th -11th September 2022

Nutrition in Critically ill patients, ISA Tripura State conference, Agartala, 10th -11th September 2022

Lecture, Renal replacement therapy in Intensive care unit, ISCCM Expert panel recommendation, Criticon, Raipur, 3rd -4th September 2022

Lecture, Fluid Resusitation in Sepsis, Pro Con Debate, GICS, Bangalore, 15th September 2022

Panel discussion, Management of refractory seizure, Annual Conference of Society of Neuro Critical Care, Chennai, 24th September 2022

Lecture, Early warning signs in Sepsis, World Critical Care Conference (w4C), Jim Corbette, 14th -15th October 2022

Lecture, Current role of biomarkers in Sepsis, Calcutta Critical Care Conference, Kolkata, 7th October 2022

Lecture, Management of life-threatening pulmonary embolism, CME, ISCCM National and ISCCM, Agartala, 8th October 2022

Lecture, Management of life-threatening pulmonary embolism, CME, ISCCM National and ISCCM, Jammu, 29th October 2022

Lecture, Decades of Sepsis Trials- whare are we?, Rajkot Criticon, Rajkot, 6th -7th August 2022

Faculty, HICS, Hyderabad, June 2022

Lecture, Management of GI Bleed, UP-UK Criticon, Varanasi, June 2022

Lecture, Role of biomarkers in AKI, Euroasia, New Delhi, 30th June-2nd July 2022

Faculty, Comprehensive Critical Care Course Workshop, Euroasia, New Delhi, 30th June-2nd July 2022

Lecture, Treating bacterial infections can be tricky, Indian Association Of Medical Microbiologists (IAMM), Odisha Chapter, Virtual, 2nd July 2022

Lecture, Concept of pharmacogenomics and pharmacogenetics: Meet the Expert session, Criticare, Ahmedabad, 8th April 2022

Lecture, What we must know about poisoning: Meet the Expert session, Criticare, Ahmedabad, 8th April 2022

Lecture, Role of MRI in Comatose patients – when it must be done and when not, Criticare, Ahmedabad, 10th April 2022

Panel discussion, Role of Tele ICU, Criticare , Ahmedabad, 10th April 2022

Lecture, Antibiotic and Sedation dosing on CRRT, Workshop on RRT, Criticare, Ahmedabad, 7th April 2022

Lecture, Volume overload, Workshop on RRT, Criticare, Ahmedabad, 7th April 2022

Panel discussion, SLEDD vs CRRT, Workshop on RRT, Criticare, Ahmedabad, 7th April 2022

Lecture, Recruitment manoeuvres in ARDS, Advanced ventilation workshop, Criticare, Ahmedabad, 6th April 2022

Lecture, Management of Septic shock, 1st Indo Australian Joint Critical Care Workshop, Colombo,
Sri Lanka, 11th December 2022

Lecture, Devices for oxygen therapy – Ventilation, 1st Indo Australian Joint Critical Care Workshop, Colombo, Sri Lanka, 11th December 2022

Lecture, Starting a QI Programme in a hospital, Annual Critical Care Conference of SAARC Nations and Nepalese Society of Critical Care, Kathmandu, Nepal, 3rd -5th December 2022

Lecture, Sepsis- Euroasia Perspectives, Technosepsis, Palma, Spain, 6th October 2022

Lecture, Sepsis Revisited 2022, Apollo hospitals Bhubaneswar and ISCCM, Bhubaneswar, Webinar, Virtual, 15th March 2022

Lecture, Anti Coagulants in Critical Care, Mega Anesthesiology, Mega Anesthesia, Egyptian Society of Anesthesiology, Webinar, Virtual, 30th January 2022

Lecture, Management of Obstetric Emergencies, Indian College of Intensive care Medicine, Place, May 2022

Lecture, Management of Cerebral strokes, Farz Auxilliary Academy, Kolkata, November 2022

Lecture, Management of Subarachnoid Haemorrhage, Farz Auxilliary Academy, Kolkata, November 2022

Presentations

Paper presentation, A survey of thromboprophylaxis practices among neurocritical care experts, Criticare, Ahmedabad, 8th April 2022

Professional Societies' Positions

Indian Representative, World Federation of Intensive and Critical Care Medicine, since 2022

Executive Committee member, Indian Society Of Critical Care Medicine (National), since 2022

Member, ICU Liberation Committee, SCCM, Society of Critical Care Medicine (USA-active), since 2021

Member, Adult writing Committee, SCCM, Society of Critical Care Medicine (USA-active), since 2021

Life Member, Indian Society of Anaesthesiologists (Active), since 2018

Member, Society of Neuro Critical Care, India (SNCC), since 2022

Co-Ordinator, Research Committee, ISCCM, since 2022

Co-ordinator, AKI Network committee, ISCCM, since 2022

Examinership

Examiner, Indian College of Critical Care Medicine, May 2022

Examiner, Indian College of Critical Care Medicine, July 2022

NBE Examiner, Dr NB Critical Care, May 2022

NBE Examiner, Dr NB Critical Care, November 2022

Awards

Apollo Young Researchers Award, Apollo Hospitals Enterprises, 2022

Bharat Karma Shree Award, for outstanding contribution for social welfare, Bharat Sevak Samaj, Government of India, India Habitat Centre, New Delhi, 11th December 2022
Delhi, 12th August 2022

**Presidential Citation Award, Outstanding Contribution to ISCCM in Criticare, Criticare, Ahmedabad, 8th April 2022**

**First Prize, Oral Paper presentation, Criticare, Ahmedabad, 9th April 2022**

### Bilaspur

**58. Dr Kavita Babbar**

Obstetrician and Gynaecology, Apollo Hospitals, Bilaspur

**Publications**


**59. Dr Kumari Manju**

Obstetrician and Gynaecology, Apollo Hospitals, Bilaspur

**Publications**


### Chennai

**60. Dr Vinit Kumar Srivastava**

Anesthesiology, Apollo Hospitals, Bilaspur

**Publications**


**61. Dr A R Gayathri**

Respiratory Medicine, Apollo Main Hospitals, Chennai

**Professional Societies' Positions**

Member, Specialist Board in Respiratory Medicine, National Board of Examination, since March 2022

**62. Dr Ajay Padmanaban**

Critical Care, Apollo Main Hospitals, Chennai

**Publications**

Ajay Padmanaban, Bharath Kumar Tirupakuzhi Vijayaraghavan, Anders Granholm, Maj-Brit, Marie Warrer Munch, Sheila Nainan Myatra, Maria Cronhjort, Rebecka Rubenson Wahlin, Stephan M Jakob, Luca Cioccari, Gitte Kingo Vesterlund, Tine Sylvest Meyhoff, Marie Helleberg, Morten Hylander Maller, Thomas Benfield, Balasubramanian Venkatesh, Naomi E Hammond, Sharon Micallef, Abhinav Bassi, Oommen John, Vivekanand Jha, **Long-term outcomes of dexamethasone 12 mg versus 6 mg in patients with**
COVTD-19 and severe hypoxaemia, Intensive Care Me, Volume 48; Issue 5: Page 580-589, 31st March 2022

Awards

Clinical Excellence award, Best research activities on COVID, March 2022

63. Dr Arshad Akeel
Internal medicine, Apollo Main Hospitals, Chennai

Publications

Dr C Arshad Akeel, Dr Aishwarya K Marimuthu, Dr V K Vineeth, CNS Melioidosis, Indian Journal of Applied Research, Volume 12: Issue 1: Page 1-3, January 2022

Dr C Arshad Akeel, Dr Neetu Mariam Alex, Dr Phani Krishna Machiraju, Dr Sriram Sankaran, Gastric antral vascular ectasia in sine scleroderma: a case report and review of literature, Indian Journal of Applied Research, Volume 12: Issue 2: Page 1-2, February 2022

Dr C Arshad Akeel, Dr Manjunatha Gajanana Hegde, Dr Ashish Acharya K, How novel nuclear imaging aided the diagnosis in a case of Recurrent hypoglycemia- a case report and review of Literature, Indian journal of applied research, Volume 12: Issue 10: Page 80-81, October 2022


Dr C Arshad Akeel, Dr Manjunatha Gajanana Hegde, Incessant fever and lymphadenopathy: a case report of kikuchi-fujimoto disease, Volume 12: Issue 8: Page 12-13, August 2022

Dr Arshad Akeel, Dr K Sudhakar, Dr Ananthakrishnan J, Dr Ajai R C K, Dr Ajith Prasath, Dr Vijay Ayamkurussi, efficiency of acoustic radiation force impulse in clinical selection criteria- prospective renal donors in comparison with isotope and computed tomography scan, Indian Journal of Applied Research, Volume 12: Issue 4: Page 41-45, April 2022

64. Dr Arulselvan
Neurology, Apollo Main Hospitals, Chennai

Professional Societies' Positions

Member, Super Specialty Board of Neurology, National Board of Examination, since March 2022

65. Dr Ashok Parameswaran
Pathology, Apollo Main Hospitals, Chennai

Professional Societies' Positions

Member, Specialist Board in Pathology, National Board of Examination, since March 2022

66. Dr Babu K Abraham
Respiratory Medicine, Apollo Main Hospitals, Chennai

Chapters contributed to text books

Dr Babu K Abraham, Coagulopathies and Reversal agents, Chapter 56, Critical Care Update, Editors- Deepak Govil, Subhash Todi, Rajesh Chandra Mishra, 4th edition, Jaypee Publishers, 2022

67. Dr Balachandran Premkumar
Hernia and Abdominal Wall reconstruction, General Surgery, Apollo Main Hospitals, Chennai

Publications


Lectures

Debate, Macroporous vs Microporous Meshes, Young HSICON, Kolkata, 1st -3rd April 2022

Lecture, Robotic Umbilical Hernia repair by HUGO RAS Surgical System, SPARSH Surgical Update, Sparsh Hospitals, Bangalore, 7th May 2022

Lecture, Prevention of the recurrence of Parastomal Hernias, 9th session of TUGS (The Upper GI Surgeons international surgery fraternity), CME, Virtual, 10th June 2022

Talk, Management of Pancreatic Pseudocysts, FALS HPB Conference, Chennai, 27th 31st July 2022

Lecture, An update on Minimal Access Hernia Surgery, Healthium Medtech, CME, Virtual, 6th August 2022

Lecture, Laparoscopic ETEP Ventral Hernia repair, Abdominal Wall Reconstruction Surgeons Community (AWRSC), ASI Odisha Chapter, AWR Looking East, Bhubaneshwar, Orissa, 20th -21st August 2022

Lecture, rTAPP and rTARM, HUGO RAS– Robotic Hernia Masterclass, HISCON, Jaipur, 1st September 2022

Lecture, Hernial sac preservation in complex ventral hernia, Best practices in hernia surgery program, Chennai, 15th May 2022

Lecture, Biomaterials– old and new, 3rd APAC Hernia Live master class, National University Hospital, Singapore, 12th September 2022

Session Lead Speaker, Hugo RAS in Hernia surgery, 1st Virtual Instructor Lead Training (VILT) zoom session, European Medtronic Surgical Robotics, Virtual, 6th October 2022

Lecture, Laparoscopic ETEP Ventral Hernia Repair and Transversus Abdominis release, FALS Hernia, 16th October 2022

Panelist, Abdominal Wall Reconstruction, SELSICON, Coimbatore, 12th November 2022

Lecture, Robotic Hernia Surgery, Hernia Conclave, Indore, 3rd – 4th December 2022

Editorial Boards Membership

Frontiers, Visceral Surgery, Frontiers Publishing, since 2022

Reviewer, World Journal of Laparoscopic Surgery, since 2022

Reviewer, Cureus Journal, Springer Nature, since 2022

Professional Societies’ Positions

Organizing Co-Chairman, FALS Hernia, Fellowship in Advanced Laparoscopic Surgery, Chennai, since October 2022

Awards

Honorary fellow, GAPIO, Global Association of Physicians of Indian Origin, 3rd February 2022
Excellence in Hernia Surgery Award, Venus International Foundation, Chennai, 11th June 2022

68. Dr Bharath Kumar T V

Critical Care and Sleep Medicine, Apollo Main Hospitals, Chennai

Publications


Dr Bharath Kumar TV, Dr Nagarajan Ramakrishnan, Dr C Vignesh, Dr Ebenezer R, Dr Ashvin Kumar Mani, Dr Meghena Mathew, Dr Pratheema Ramachandran, Effect of antiplatelet therapy on survival and organ support-free days in critically ill patients with COVID-19, A randomized clinical trial, JAMA, Volume 327: Issue 13: Page 1247-1259, April 2022


Dr Bharath Kumar TV, Intravenous Vitamin C in adults with sepsis in the intensive care unit, N Engl J Med, Volume 386: Page 2387-2398, 15th June 2022


Awards

Clinical Excellence Award, Best research activities on COVID, March 2022

69. Dr C Vignesh

Critical Care, Apollo Main Hospitals, Chennai

Publications

Dr C Vignesh, Dr Bharath Kumar TV, Dr Nagarajan Ramakrishnan, Dr Ebenezer R, Dr Ashwin Kumar Mani, Dr Meghena Mathew, Dr Pratheema Ramachandran, Effect of antiplatelet therapy on survival and organ support–free days in critically ill patients with COVID-19, A randomized clinical trial, JAMA, Volume 327: Issue 13: Page 1247-1259, April 2022

Awards

Clinical Excellence Award, Best research activities on COVID, March 2022

70. Dr Dedeepiya Devaprasad

Critical Care Medicine, Apollo Main Hospitals, Chennai

Chapters contributed to text books


Publications


71. Dr Dhavapalani Alagappan

Emergency Medicine, Apollo Main Hospitals, Chennai

Professional Societies' Positions

Member Specialist Board in Emergency Medicine, National Board of Examination, since March 2022

72. Dr H Subramony

Internal Medicine, Apollo Main Hospitals, Chennai

Professional Societies' Positions

Member, Specialist Board in General Medicine, National Board of Examination, since March 2022

73. Dr Immaneni Sathyamurthy

Cardiology, Apollo Main Hospitals, Chennai

Publications

Immaneni Sathyamurthy, Onkar C Swami, Parenteral iron in heart failure: An Indian perspective (Review article), The Journal of the Association of Physicians of India, Volume 70: Issue 2: Page 11-12, 1st February 2022


I Sathyamurthy, K N Srinivasan, Neelagandan Manodaya, Left main coronary artery atresia
Report of 2 cases, IHJ Cardiovascular Case Reports (CVCR), Volume 6: Issue 2: Page 90-93, April – June 2022


Editorial Boards Membership

Member, Editorial Board of Cardiology and Cardiovascular Research (CCR), since 2022

74. Dr J K A Jameel

Surgical Gastroenterology and Minimal Access Surgery, Apollo Main Hospitals, Chennai

Publications


Awards

Honorary Adjunct Professorship, Tamil Nadu Dr MGR Medical University, January 2022

75. Dr Jagadeesh Chandrasekaran

Internal Medicine, Apollo Main Hospitals, Chennai

Publications


Professional Societies' Positions

Member, Occupational and Environmental Health Committee, American College of Chest Physicians, since 1st November 2022

Examinership

Co-ordinator examiner, DNB General Medicine Final Practical Exam, 30th June 2022

76. Dr Jameel Akhter

General and Laparoscopic Surgery, Apollo Main Hospitals, Chennai

Publications

Dr Jameel Akhter, Dr Sai Sampath Kumar Vasantham, Gossypiboma in a 30-year-old female, International Journal of Scientific Research, Volume 11: Issue 10, October 2022


77. Dr K Bhaskaran
Anesthesia, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board in Anesthesiology, National Board of Examination, since March 2022

78. Dr KN Srinivasan
Cardiology, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Super Specialty Board of Cardiology, National Board of Examination, since March 2022

79. Dr K R Palaniswamy
Medical Gastroenterology, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Super Specialty Board of Medical Gastroenterology, National Board of Examination, since March 2022

Awards
Masters of the World Gastroenterology Organization (WGO) Award, for the services in the field of Gastroenterology, World Congress of Gastroenterology, Dubai, 12th – 14th December 2022

80. Dr Kartik Natarajan
Gastroenterology, Apollo Main Hospitals, Chennai

Publications

81. Dr Kathirazhagan Thulasilingam
General and Laparoscopic Surgery, Apollo Main Hospitals, Chennai

Publications

82. Dr Kosygan
Orthopedics, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board in Orthopedics, National Board of Examination, since March 2022

83. Dr L Sundararajan
Respiratory Medicine, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board in Respiratory Medicine, National Board of Examination, since March 2022

84. Dr Lakshmi Ranganathan
Critical Care Medicine, Apollo Main Hospitals, Chennai

Publications
85. Dr M Indirani
Nuclear Medicine, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board in Nuclear Medicine, National Board of Examination, March 2022

86. Dr Mahadev Potharaju
Radiation Oncology, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board of Radiation Oncology, National Board of Examination, since March 2022

87. Dr Mamta Soni
Hematology and Clinical Pathology, Apollo Main Hospitals, Chennai

Publications
Soni M, Danalakshmi S, Spuriously low thyroid-stimulating hormone? A laboratory phenomenon.

Apollo Med, Volume 19: Issue 4: Page 262-263, 22nd August 2022
Mamta Soni, A case of ATMDS (Alpha Thalassemia Myelodysplastic Syndrome), American Society of Hematology, 31st May 2022
Mamta Soni, Gaucher like cells in AML, American Society of Hematology, 20th April 2022
Mamta Soni, Cell morphology in a case of drug induced hemolytic anemia, American Society of Hematology, 6th June 2022
Mamta Soni, Plasma cells with auer rod-like inclusions, American Society of Hematology, 9th June 2022

Lectures
Lecture, Quality indicators in hematology, 6th CAHOCON, Kochi, 26th March 2022
Lecture, Safe practices in phlebotomy— discussion with case studies, TNMC, CME, Bharath Medical College, Chennai, 27th April 2022
Lecture, Pass on the torch to sickle cell – Case Discussion, TNMC, CME, Lalithambigai Medical College and Hospital, Adayalampattu, 14th July 2022
Lecture, Sky is not always blue- Spurious counts from auto analyzers with case discussions, VAPCON, Nagpur, 12th March 2022
Lecture, Budding, Blooming, Blossoming translational research in haematology, TNMC, CME, APTCARECON, 15th October 2022

Editorial Boards Membership
Member, Apollo Medicine Journal, since March 2020

Professional Societies' Positions
Lead and Technical assessor, NABL, since 2022
88. Dr Meera Raghavan
Gynaecology, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board of Obstetrics and Gynaecology, National Board of Examination, since March 2022

89. Dr Muralidharan Manikes
General Surgery, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board of General Surgery, National Board of Examination, since March 2022

90. Dr Muralidharan Venkatesan
Orthopaedics, Spine Surgery, Apollo Main Hospitals, Chennai

Publications


Professional Societies' Positions
Member, Scoliosis Research Society Global Outreach Committee, since 2020
Member, AO Spine Indian Subcontinent Delegate Council, since 2021
Member, Association of Spine Surgeons of India Educational Committee, since 2022

91. Dr N Chidambaranathan
Radiology, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board in Radio Diagnosis, National Board of Examination, March 2022

92. Dr N Raghavan
Urology, Apollo Main Hospitals, Chennai

Professional Societies' Positions
Member, Specialist Board of Obstetrics and Gynaecology, National Board of Examination, since March 2022

93. Dr Nagarajan Ramakrishnan
Critical Care Medicine, Apollo Main Hospitals, Chennai

Chapters contributed to text books
Dr Nagarajan Ramakrishnan, Rohit Aravindakshan Kooloth, Suresh Kumar Sundaramurthy, Critical Care in Discrete Locations, Chapter 87, Critical Care Update, Editors- Deepak Govil, Rajesh Mishra, Dhruva Chaudhry, Subhash Todi, 4th
Publications

Dr Nagarajan Ramakrishnan, Dr Bharath Kumar TV, Dr C Vignesh, Dr Ebenezer R, Dr Ashwin Kumar Mani, Dr Meghena Mathew, Dr Pratheema Ramachandran, Effect of antiplatelet therapy on survival and organ support–free days in critically ill patients with COVID-19: A randomized clinical trial, JAMA, Volume 327: Issue 13: Page 1247-1259, April 2022


Lectures

Lecture, Impact of Diet and Body composition on Sleep, Parenteral and Enteral Nutrition Society of Asia (PENSA), Hyderabad, 1st – 3rd December 2022

Lecture, Leadership in Dietetics- An Intensivist’s perspective, Parenteral and Enteral Nutrition Society of Asia (PENSA), Hyderabad, 1st – 3rd December 2022

Lecture, Sleep-Paradigm shift for better health, ESIC MC and PGIMSR, September 2022

Lecture, Cease the seizure, 5th Annual Conference of Society of Neuro Critical Care (SNCC), Chennai, September 2022

Chairperson, 5th Annual Conference of Society of Neuro Critical Care (SNCC), Chennai, September 2022

Lecture, Current Developments in Remote Critical Care, Remote Critical Care Symposium – A Global Perspective. Apollo Hospitals and College of Intensive Care Medicine of Australia and New Zealand, Webinar, April 2022

Editorial Boards Membership

Editorial Board Member, Indian Journal of Sleep Medicine, since 2010
Advisory Board, Indian Journal of Critical Care Case Reports, since 2022

Associate Editor, Apollo Medicine Journal, since 2012

Scientific Reviewer, Indian Journal of Critical Care Medicine, since 2006

Scientific Reviewer, Indian Journal of Medical Research, since 2019

Scientific Reviewer, Sleep and Vigilance, since 2018

**Professional Societies’ Positions**

Member, Credentials Committee, Indian society of Critical Care Medicine, since 2020

Member, National Advisory Committee, Indian Sleep Disorders Association, since January 2021

**Examinership**

Examiner, Indian Diploma in Critical Care Medicine (IDCCM), 2022

Examiner, Indian Fellowship in Critical Care Medicine (IFCCM), 2022

Examiner, National Board of Examinations in Critical Care Medicine (DNB), 2022

**Awards**

Seek Award, Rendering remarkable service to the community in the field of Health Service, St. Britto’s Academy, 27th April 2022

**94. Dr Nandini Sethuraman**

Microbiology, Apollo Main Hospitals, Chennai

**Chapters contributed to text books**

Dr Nandini Sethuraman, Talaromycosis, Clinical Key Essentials, India Point of Care, Elsevier, 13th July 2022

**Publications**


Nandini Sethuraman, Yamuna Devi Bakthavatchalam, Abhisek Routray, Akshata Mane, Shweta Kamat, Anu Gupta, Anurag Kumar Bari,

Lectures

Lecture, Simplifying TB diagnostics for clinical practice, CME, Practical Management of Tuberculosis Conducted, Best of IDs, Chennai, 26th March 2022

Lecture, Diagnostic stewardship in mycology, CME on diagnostic stewardship, IAMM Odisha chapter, Virtual, 2nd July 2022

Lecture, Interpretation of AST reports, CIDS Kerala chapter, Virtual, 2nd July 2022

Panel discussion, ICU infection diagnosis and management, ISCCM Chennai chapter, Chennai, 8th July 2022

Lecture, Important of turnaround time in fungal diagnostics symposium, ISHAM, New Delhi, 20th – 24th September 2022

Lecture, Microbial diagnosis of meningoencephalitis, Society of Neurocritical Care (SNCC) Conference, Chennai, 24th September 2022.

Lecture, Update on diagnostic modalities in immunosuppressed patients, Annual Conference of Indian Society of Organ Transplantation (ISOT), Nagpur, 12th – 16th October 2022

Lecture, Syndromic Approach to Viral Diagnostics, Clinical Microbiology ID Meet/RFH chapter, Sir. H.N.Reliance Foundation Hospital, Mumbai, December 2022

Presentations

E- Poster presentation, A case of retropharyngeal abscess caused by Mycoplasma salivarium, ECCMID, Lisbon, Portugal, Virtual, 23rd – 26th April 2022

Editorial Boards Membership

Review Editor, Frontiers in Fungal Biology, since 11th March 2022

Professional Societies' Positions

Member, Clinical Microbiology Subcommittee, Clinical Infectious Diseases Society, since 17th March 2022

Awards

Young Researcher award, Apollo Hospitals, 5th February 2022

Outreach Grant Award, ESCMID (European Society of Clinical Microbiology and Infectious Diseases), Bill and Melinda Gates Foundation, 2022

95. Dr Narasimhan Ragavan

Urology, Apollo Main Hospitals, Chennai

Publications

96. Dr Narender Dasaraju
Orthopedic Surgery, Apollo Main Hospitals, Chennai

Presentations
Paper presentation, Management of Knee joint contractures with Ilizarov fixator without soft tissue lengthening or osteotomy, TNOACON, Tamilnadu Orthopaedic Association Conference, Trichy, 18th – 20th March 2022

Presentation, Consultant session, Complex tibial fracture nonunion management with ilizarov fixator, MOS, Madras Orthopaedic society, CME, Chennai, 10th December 2022

Editorial Boards Membership
Reviewer, IP Innovative Publication Pvt. Ltd, since 2021

Professional Societies’ Positions
Executive committee member, Madras Orthopaedic society, since 2022

97. Dr Nivash Selvaraj
Urology, Apollo Main Hospitals, Chennai

Publications

98. Dr Preethi
Medical Gastroenterology, Apollo Main Hospitals, Chennai

Professional Societies’ Positions
Member, Super Specialty Board of Medical Gastroenterology, National Board of Examination, since March 2022

99. Dr Premkumar Balachandran
Minimal Access, Bariatric and Robotic Surgery, Apollo Main Hospitals, Chennai

Publications

100. Dr R K Sasankh
Thoracic Surgery, Apollo Main Hospitals, Chennai

Professional Societies’ Positions
Member, Super Specialty Board of Thoracic Surgery, National Board of Examination, since March 2022

101. Dr R Magesh
Geriatrics, Apollo Main Hospitals, Chennai

Lectures
Lecture, Geriatric Critical care, GERICON, IAG, Kolkata, 29th October 2022

Professional Societies’ Positions
Secretary, Indian Academy of Geriatrics (IAG), since 2021

102. Dr Rajeev Annigeri
Nephrology, Apollo Main Hospitals, Chennai

Chapters contributed to text books
103. Dr Rajesh Kesavan
Podiatry Surgery, Apollo Main Hospitals, Chennai

Professional Societies’ Positions
Vice President, Diabetic Foot Society of India, since February 2022

104. Dr Rajeshwari Nayak
Cardiology, Apollo Main Hospitals, Chennai

Publications

Professional Societies’ Positions
Member, Super Specialty Board of Cardiology, National Board of Examination, since March 2022

105. Dr Rama Narasimhan
General Medicine, Apollo Main Hospitals, Chennai

Professional Societies’ Positions
Member, Specialist Board in General Medicine, National Board of Examination, since March 2022

106. Dr Ramesh Venkataraman
Critical Care Medicine, Apollo Main Hospitals, Chennai

Publications

Awards
Presidential Citation Award, for his service in the field of Critical Care Medicine, Indian Society of Critical Care Medicine (ISCCM), April 2022

107. Dr Refai Showkathali
Cardiology, Apollo Main Hospitals, Chennai

Publications

Editorial boards Membership
Member, Editorial Board, World Journal of Cardiovascular Diseases, since 2022

108. Dr Sai Krishna Vittal
Endocrine Surgery, Apollo Main Hospitals, Chennai

Publications

Awards
International Medal, for services to the College and Surgery, Royal College of Surgeons of Edinburgh, November 2022

Surgeon Par Excellence Award, Tamilnadu Chapter of Association of Surgeons of India, November 2022
109. Dr Sai Satish  
Cardiology, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Member, Super Specialty Board of Cardiology, National Board of Examination, since March 2022  

110. Dr Senthil Kumar  
Critical Care, Apollo Main Hospitals, Chennai  
Awards  
Clinical Excellence award, Best research activities on COVID, March 2022  

111. Dr Shelley Simon  
Nuclear Medicine, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Member, Specialist Board in Nuclear Medicine, National Board of Examination, March 2022  

112. Dr Subba Rao  
Nephrology, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Member, Super Specialty Board of Nephrology, National Board of Examination, since March 2022  

113. Dr Suresh Kumar Sundaramurthy  
Critical Care and Sleep Medicine, Apollo Main Hospitals, Chennai  
Chapters contributed to text books  
Nagarajan Ramakrishnan, Rohit Aravindakshan Kooloth, Suresh Kumar Sundaramurthy, Critical Care in Discrete Locations, Chapter 87, Critical Care Update, Editors- Deepak Govil, Rajesh Mishra, Dhruva Chaudhry, Subhash Todi, 4th edition, Jaypee, Page 462-466, 2022  

114. Dr T G Balachandar  
Surgical Gastroenterology, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Member, Super Specialty Board of Surgical Gastroenterology, National Board of Examination, since March 2022  

115. Dr T Raja  
Medical Oncology, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Member, Super Specialty Board of Medical Oncology, National Board of Examination, since March 2022  

116. Dr V Ramasubramanian  
Infectious Diseases, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Member, Fellowship Specialist Board in Infectious Disease, National Board of Examination, since March 2022  

117. Dr Venkatakartikeyan  
ENT, Apollo Main Hospitals, Chennai  
Professional Societies' Positions  
Specialist Board Member, Specialist Board in ENT, National Board of Examinations, since March 2022  

118. Dr Vijaykumar C  
Internal Medicine, Apollo Main Hospitals, Chennai  
Awards  
Life Time Achievement Award, Association of Physicians of India Chennai Chapter, 3rd December 2022
119. Dr Vijayashankar Paramanandam

Neurology, Movement disorder and deep brain stimulation, Apollo Main Hospitals, Chennai

Publications

Vijayashankar Paramanandam, Aurélie Meneret, Shekeeb S Mohammad, Laura Cif, Diane Doummar, Claudio DeGusmao, Mathieu Anheim, Magalie Barth, Philippe Damier, Nathalie Demonceau, Jennifer Friedman, Cecile Gallea, Domitille Gras, Juliana Gurgel-Giannetti, Emily A Innes, Jan Nepecal, Florence Riant, Sandrine Sagnes, Catherine Sarret, Yury Selivestrov, Kuldeep Shetty, Christine Tranchant, Mohamed Doulazmi, Marie Vidailhet, Tamara Pringsheim, Emmanuel Roze, Efficacy of caffeine in ADCY5-related dyskinesia: A retrospective study, Mov Disord, Volume 37: Issue 6: Page 1294-1298, June 2022


Shakya Bhattacharjee, Anu Deenadayalu, Vijayashankar Paramanandam, Interictal Headache, Pseudodystonia, and Persistent Ataxia in Episodic Ataxia Type 1 Due to a Novel KCNA1 Gene Mutation, Mov Disord Clin Pract, Volume 9: Issue 2: Page 272–274, February 2022

120. Dr Vilvapathy S Karthikeyan

Uro-Andrology and Men's Health, Apollo Main Hospitals, Chennai

Publications


Lectures

Organiser, CME of the Andrology Section of Urological Society of India, Toshali Sands, Konark, Odisha, September 2022

Lecture, Synthetic materials in Andrology, USI ISSM session, USICON, Ahmedabad, Gujarat, January 2022

Lecture, Landmark audits in Medicine- How have they impacted clinical management, USI CRC session, USICON, Ahmedabad, Gujarat, January 2022

Lecture, Putting men's health into practice, USI MHSI session, USICON, Ahmedabad, Gujarat, January 2022

Panelist, Men's Health, USICON, Ahmedabad, Gujarat, January 2022

Panelist, Andrological Emergencies, USICON, Ahmedabad, Gujarat, January 2022

Lecture, Malleable penile implants- basics, Prosthocon, Kumarakom, Kerala, May 2022
Lecture, Preoperative check list for penile prosthesis, Prosthocon, Kukaramak, Kerala, May 2022

Panelist, Testis epididymal imaging and MAGI: the role of artificial intelligence, Global Andrology Forum Symposium, May 2022

Debate, Male sexual function is andrologist cup of tea, SZUSICON, Bengaluru, Karnataka, July 2022

Lecture, The role of Andrologist in male sexual dysfunction, CME, SRM Medical University, Chennai, 2022

Lecture, Male Infertility - Andrologist perspective, GyAn CME, Mysuru, Karnataka, 2022

Lecture, Basic Andrology Workshop - History Taking, JAWS, New Delhi, August 2022

Lecture, Anorgasmia – Classification, JAWS, New Delhi, August 2022

Lecture, Mens health - what do you need to set up your centre, JAWS, New Delhi, August 2022

Lecture, Obstructive azoospermia - methods and instrumentation, JAWS, New Delhi, August 2022

Lecture, Premature ejaculation - combination therapy, JAWS, New Delhi, August 2022

Panelist, Multidisciplinary management of sexual disorders, JAWS, New Delhi, August 2022

Lecture, Hormonal evaluation of male infertility, ISAR, Mumbai, Maharashtra, August 2022

Panelist, Male infertility, ISAR, Mumbai, Maharashtra, August 2022

Lecture, Microsurgical Varicocelectomy - Point of technique, Inaugural CAE in Andrology, Konark, Odisha, September 2022

Lecture, Approach to male sexology, Indian Fertility Society Webinar, September 2022

Lecture, Semen banking - the new law, ISAR State chapter, Chennai, Tamil Nadu, November 2022

Lecture, Sexual problems leading to infertility and vice versa, ISAR State chapter, Chennai, Tamil Nadu, November 2022

Presentations

Video presentation, Semilive video demonstration of malleable penile prosthesis, JAWS, New Delhi, August 2022

Presentation, Survey among urologists on web-based learning: Are we ready to transition to the COVID-19 era?, USICON, Ahmedabad,27th – 30th January 2022

Presentation, Office sildenafil test in the evaluation of erectile dysfunction, USICON, Ahmedabad,27th – 30th January 2022

Presentation, Office evaluation of erectile function and OST, Andrology Section USI, 10th -11th September 2022

Presentation, Immediate inflatable penile prosthesis implantation in a case of neglected delayed idiopathic ischemic priapism - a novel approach, Andrology Section USI, 10th -11th September 2022

Editorial boards Membership

Member, Editorial Committee, Indian Journal of Urology, since 1st January 2022

Professional Societies' Positions

Founding Convenor, Andrology Section of Urological Society of India, since September 2022

Council Member, Andrology Section of Urological Society of India, since September 2022

Member, Global Andrology Forum, American College of Reproductive Medicine, Cleveland Clinic, USA, since November 2021
Examinership
Examiner, DNB, Apollo Main Hospital, Chennai, February 2022

Delhi

123. Dr Abhishek Vaish
Orthopaedics, Sports Medicine and Joint Preservation Surgery, Indraprastha Apollo Hospitals, Delhi

Publications
Vaish A, Vaishya R, Gupta BM, Kappi M, Kohli S, High-cited publications from Indian orthopaedic research in the last two-decade, Apollo Medicine, Volume 20: Issue 1: Page 4 – 11, 8th December 2022
Vaish A, Iyengar KP, Mishra AK, Kurisunkal V, Vaishya R, Botchu R, Primary synovial chondromatosis of the hip joint (PrSC of the hip): A retrospective cohort analysis and review of the

121. Dr Y Vijayachandra Reddy
Cardiology, Apollo Main Hospitals, Chennai

Publications
Yerramareddy Vijayachandra, Chandrasekaran Krishnaswamy, Shalini Mani, Intractable Heart failure from a severe mitral paravalvular leak in surgically created bipartite left atrium, JACC case reports, Volume 4: Issue 22: Page 1542-1547, 16th November 2022

122. Dr Yvette Kirubha J
Radiodiagnosis, Apollo Main Hospitals, Chennai

Lectures
Lecture, WHO 2021 classification of brain tumours – implications for radiomics and radiogenomics, 3rd annual conference of ISHNR, Chennai, 17th – 18th December 2022

Presentations
Poster presentation, Pictorial review of focal and diffuse tracheal abnormalities on CT, 4th Annual National Congress of the Society of Chest Imaging and Interpretations, AIIMS Patna, 12th -13th November 2022

Editorial Boards Membership
Inception, Editorial board, Case reports in Clinical Radiology, since 2022


Vaish A, iyengar KP, Pe EZ, Jalli J, Shashidhara MK, Jain VK, Vaishya R, Industry 5.0 technology capabilities in Trauma and Orthopaedics, J Orthop, Volume 32: Page 125-132, July – August 2022


Vaish A, Mishra AK, Vaishya R, Effect of body mass index on the outcomes of primary total knee arthroplasty up to one year- a prospective study, J Clin Orthop Trauma, Volume 27: Page 101829, 8th March 2022

Vaish A, Vaishya R, All fields of Research and Publication (including in Diabetes) have shown a healthy rising trend from India in the last decade. Diabetes Met Syndrome: Clinical Research and Reviews, Volume 16: Page 102423, 2022


Vaishya R, Gupta BM, Kappi M, Scientometric analysis of India's Publications in Arthroplasty in the last two decades from the SCOPUS database, J Clin Orthop Trauma, Volume 34: Page 102041, 7th October 2022

Editorial Boards Membership

Section Editor, Indian Journal of Orthopaedics, since 2022

Associate Editor, Journal of Orthopaedics, since 2020

Associate Editor, Journal of Clinical Orthopaedics and Trauma, since 2016

Associate Editor, Journal of Orthopaedic Reports, since 2021
124. Dr Anupam Bahl
Nephrology, Indraprastha Apollo Hospitals, Delhi

Publications

125. Dr Anupam Sibal
Pediatric Gastroenterology and Hepatology, Indraprastha Apollo Hospitals, Delhi

Publications
A Sibal, S Jain, Karunesh K, S Malhotra, Rare case of primary carnitine deficiency presenting as acute liver failure, Volume 15: Issue 7: Page e247225, BMJ Journal, 19th July 2022


A Sibal, K Kumar, S Malhotra, Transient infantile hypertriglyceridaemia due to homozygous mutation in GPD1 presenting in childhood with hepatic adenoma, BMJ Journal, Volume 15: Issue 4: Page e248801, 1st April 2022


Lectures
Lecture, WHO policy makers forum: Patient safety implementation, Geneva, Switzerland, 23rd- 24th February 2022
Lecture, USAID-PSI CoVLEex initiative, 9th March 2022
Lecture, IFC webinar on healthcare quality, 17th March 2022
Lecture, Managing Omicron for Children: Symptoms and Curative Actions, Special Guest for Illness To Wellness, ASSOCHAM, 25th January 2022
Lecture, 124th Meeting of the Managing Committee, Raghubir Modern School meeting, New Delhi, 21st March 2022
Lecture, PEDICON, Noida, Uttar Pradesh, 19th – 22nd Mar 2022
Lecture, Pediatric Liver Transplant, Press Conference and RTM, Amritsar 11th April 2022
Lecture, Heal in India: Positioning India as #1 Destination for Medical Value Trave (MVT), Global Ayush Investment and Innovation Summit, Gandhinagar, Gujarat, 20th – 22nd April 2022

Editorial Board Membership
Executive Editor, Apollo Medicine Journal, since 2016
Professional Societies' Positions

President, Global Association of Physicians of Indian Origin (GAPIO), since January 2020

Honorary Clinical Professor, Macquarie University, Sydney, Australia, since June 2015

Member, Asian Pan-Pacific Society of Pediatric Gastroenterology Hepatology and Nutrition (APPSPGHAN), Executive Council, since 2005

126. Dr Arun Agarwal
ENT, Indraprastha Apollo Hospitals, Delhi

Professional Societies' Positions

Specialist Board Member, Specialist Board in ENT, National Board of Examinations, since March 2022

127. Dr Arun Prasad
Surgical Gastroenterology, Bariatric and Robotic Surgery, Indraprastha Apollo Hospitals, Delhi

Publications


Prasad A, Bharadwaj D, Tiwari A, Robotic gastric bypass surgery, Obes Surg, Volume 32: Page 1-38, 22nd June 2022

Prasad A, Bharadwaj D, Tiwari A, mini gastric bypass - 17 year's experience, Obes Surg, Volume 32: Page 1-38, 22nd June 2022

Lectures

Organising Committee Member, 20th World Congress of Endoscopic Surgery, International Federation of Societies of Endoscopic Surgeons, Kolkata, February 2022

Organising Committee Member, 22nd Annual Conference of the Indian Association of Gastrointestinal Endo-surgeons, Kolkata, February 2022

Faculty, Why UK should take up Robotic Bariatric Surgery, British Obesity and Metabolic Surgery Society annual meeting, Brighton, 2022

Faculty, Series on Robotic Surgery, Royal College of Surgeons, Edinburgh, Webinar, 2022

Editorial Board Membership

Cover person, World Journal of Gastrointestinal Surgery (WJGS), since May 2022

Professional Societies' Positions

Specialist Board Member, Minimal Access Surgery of National Board of Examinations, since March 2022

128. Dr Ashish Malik
Anesthesiology and Critical Care, Indraprastha Apollo Hospitals, Delhi

Chapters contributed to text books

Dr Ashish Malik, Intraoperative Complications and Management, Chapter 4, Peri-operative Anesthetic Management in Liver Transplantation, Editors - Vijay Vohra, Nikunj Gupta, Annu Sarin Jolly, Seema Bhalotra, Springer, Page 277-296, 2022

Dr Ashish Malik, Preservation Injury and Reperfusion Syndrome, Chapter 35, Textbook of Liver Transplantation, Editor- Chirag Desai, 1st
Examinership

Assessor, DNB Thesis, July 2022

129. Dr Athar P Ansari

Respiratory and Critical Care Medicine, Indraprastha Apollo Hospitals, Delhi

Publications


Lectures

Lecture, Analgesia for donor hepatectomy: The way forward, ILTS ANNUAL Conference, Istanbul, May 2022

Speaker, Analgesia In Living Donor Hepatectomy: The Way forward, Annual Conference of ILTS, Istanbul, Turkey, 2022

Lecture, Perioperative Thromboprophylaxis in Pediatric Liver Transplantation: When, what to monitor and how?, ILTS Perioperative Care in Liver Transplantation Meeting, New Orleans, October 2022

Professional Societies' Positions

Vice Chair, Anesthesia and Critical Care Committee, International Liver Transplant Society, since May 2022

Member, Education and Scholarship Committee, ILTS, since 2022

Scientific Committee Member, Perioperative Care in Liver Transplantation, US (ILTS), since 2022

130. Dr Avdhesh Bansal

Respiratory Medicine, Indraprastha Apollo Hospitals, Delhi

Publications


Professional Societies' Positions

Member, Specialist Board in Respiratory Medicine, National Board of Examination, since March 2022
131. Dr C M Batra  
Endocrinology, Indraprastha Apollo Hospitals, Delhi  

Books Published  
Editor- Dr C M Batra, Approach to Clinical Endocrinology through selected cases, published by Jaypee Brothers.

132. Dr Chanchal Pal  
ENT, Indraprastha Apollo Hospitals, Delhi  

Chapters contributed to text books  

Lectures  
Lecture, Effect of noise pollution on our health, HEARCON, June 2022  

Professional Societies' Positions  
President, IMA SDB, since 2022

133. Dr Chitra Chatterjee  
Anaesthesia, Indraprastha Apollo Hospitals, Delhi  

Publications  

134. Dr Gaurav Sagar  
Nephrology, Indraprastha Apollo Hospitals, Delhi  

Publications  

135. Dr Hena Butta  
Microbiology, Indraprastha Apollo Hospitals, Delhi  

Publications  
Hena Butta, Raman Sardana, Kirti Gilotra, Leena Mendiratta, Pankaj Baweja, Ramesh Sarin, Non- diphtheriae corynebacteria causing breast abscess in nonlactating females-seeking to avoid pitfalls in diagnosis of chronic breast infections through diagnostic stewardship, Annals of Pathology and Laboratory Medicine, Volume 9: Issue 6: Page A115-A120, 30th June 2022

Editorial Boards Membership  
Executive Editor, Journal of Patient Safety and Infection Control, since 2016  
Editorial member, Journal of Clinical Orthopaedics and Trauma, since 2019  
Reviewer, Mycopathologia, since 2017  
Reviewer, Indian Journal of Critical Care Medicine since 2017
Reviewer, Journal of Clinical Orthopaedics and Trauma since 2017

Reviewer, Journal of Patient Safety and Infection Control since 2014

Reviewer, Indian Journal of Orthopaedics since 2017

Reviewer, Journal of Medical Academics since 2018

Reviewer, Journal of Laboratory Physicians since 2022

Reviewer, Apollo Medicine since 2021

Reviewer, Cureus since 2021

Reviewer, Journal of Neurology and Neurobiology since 2022

Awards

Paper Publications Award, Apollo Hospitals, 2022

136. Dr Jatin Ahuja

Infectious Diseases, Indraprastha Apollo Hospitals, Delhi

Chapters contributed to text books

Dr Jatin Ahuja, Syndromic Approach to Infectious Diseases, Chapter 3, API Textbook of Medicine, Editors- Sandhya A Kamath, Siddharth N Shah, Yash Pal Munjal, Milind Y Nadkar, 12th edition, Page 15-20, 2022

Publications


Lectures

Co-organizer, HIV update, HIV Welfare Society, API-Punjab and API Haryana branch, Punjab, 2022

Speaker, HIV update, Mumbai, 2022

137. Dr Mohit Chowdhry

Transfusion Medicine, Indraprastha Apollo Hospitals, Delhi

Publications


138. Dr Manjit S Kanwar
Respiratory and Critical Care Medicine, Indraprastha Apollo Hospitals, Delhi

Publications

139. Dr Nidhi Goyal
Radiology, Indraprastha Apollo Hospitals, Delhi

Publications

Goyal N, Renjen PN, Chaudhari DM, Central variant reversible encephalopathy syndrome BMJ Case Rep, volume 15: Page e245636, 2022


140. Dr Nikhil Modi
Respiratory and Critical Care Medicine, Indraprastha Apollo Hospitals, Delhi

Publications
141. Dr Nishchint Jain

Interventional Radiology, Indraprastha Apollo Hospitals, Delhi

Publications


142. Dr Nitin P Ghonge

Radiology, Indraprastha Apollo Hospitals, Delhi

Publications


Professional Societies' Positions

Member, Specialist Board in Radio Diagnosis, National Board of Examination, since March 2022

143. Dr Om Prakash Sharma

Geriatric, Indraprastha Apollo Hospitals, Delhi

Books Published

Editor- Dr Om Prakash Sharma, Indian Journal of Tuberculosis, Elsevier, 2022

Chapters contributed to text books

Dr Om Prakash Sharma, Multiple Pathologies and Polypharmacy in Elderly, Chapter 44, Interesting Clinical Cases in Medicines, Editors - KK Pareek, Girish Mathur, 1st edition, Jaypee Brothers Medical Publishers, Page 6, 2022

Dr Om Prakash Sharma, Frailty in Elderly, Medicine Update, Editors - Shyam Sundar, Rajesh Upadhyay, 1st edition, Evangel Publications, 2022

Publications

O P Sharma, Tuberculosis in elderly persons, Indian J Tuberc, Volume 69: Issue Suppl 2: Page S196-S197, 30th October 2022

144. Dr P N Renjen

Neurology, Indraprastha Apollo Hospitals, Delhi

Publications

Renjen P, Chaudhari D M, Hasan U, Metronidazole-Induced Encephalopathy (MIE), Cureus, Volume 14: Issue 12: Page e33133, 30th December 2022


Renjen P, Pandey S, Chaudhari D, Goswami A, Jain S, Atrial cardiopathy: A cryptogenic cause for


Renjen PN, Chaudhari DM, Goyal N, Central variant reversible encephalopathy syndrome BMJ Case Rep, volume 15: Page e245636, 2022

Lectures

Faculty, Artificial Intelligence and Stroke, 18th Asian Oceanian Congress of Neurology (AOCN) and 29th Annual conference of the Indian Academy of Neurology (IANCON), New Delhi, 3rd –6th November 2022

Faculty, Atrial cardiopathy, IPF MEDICON, 5th Annual Conference of Innovative Physicians Forum, Innovative Physicians Forum, New Delhi, 5th –6th November 2022

Speaker, Atrial Cardiopathy and Stroke, 14th World Stroke Day Conference (WSDCON), World
Stroke Day, New Delhi, 8th October 2022

Chairman, 14th World Stroke Day Conference (WSDCON), World Stroke Day, New Delhi, 8th October 2022

Speaker, PET MR in dementia, CME, Indian Association of Radiology and imaging, Faridabad, 3rd September 2022

Speaker, Parkinson dementia overlap syndrome, CME, Neurological Society, Agra, 21st August 2022

Speaker, Dual antiplatelet therapy with aspirin and ticagrelor should be routinely used in people with high-risk TIA and mild to moderate ischemic stroke?, CONy Neurosphere, Goa, 23rd April 2022

Lecture, Physiotherapeutic Approach to a patient with Traumatic Brain Injury, 3rd Virtual Annual Conference, BCIPCON, 15th -16th April 2022

Speaker, Tenecteplase in stroke, CME, Apollo Hospital, New Delhi, 25th March 2002

Speaker, Atrial Cardiopathy and Stroke, 24th Delhi Neurological Association Conference, DNACON, Indraprastha Apollo Hospitals, New Delhi, 4th -5th February 2022

Organising Secretary, 24th Delhi Neurological Association Conference, DNACON, Indraprastha Apollo Hospitals, New Delhi, 4th -5th February 2022

Speaker, Stroke and Diabetes, Stanley Medical College, Chennai, Virtual, 23rd January 2022

Editorial Board Membership

Reviewer, Apollo Medicine, since 2020

Frontier, Stroke Online, since November 2021

Professional Societies' Positions

Member, Super Specialty Board of Neurology.
presentation and outcomes of kidney transplant recipients with COVID-19 during Wave 1 versus Wave 2 at a Tertiary Care Center, India, Int J Nephrol, Volume 2022: Page 9088393, 2nd June 2022

Professional Societies' Positions

Member, National Institute of Tuberculosis and Respiratory Diseases, Mehrauli, since 2022

Awards

NCCP R vishwanathan Memorial Chest Oration Award, NAPCON, Indian Chest Society and National College of Chest Physicians, Conference, 31st March 2022

148. Dr Rajesh Taneja

Urology Andrology and Robotic Surgery, Indraprastha Apollo Hospitals, Delhi

Publications

Dr Rajesh Taneja, Dr Nilesh Taneja, Urological problems in elderly patients of tuberculosis, Indian Journal of Tuberculosis, Volume 69: Issue Suppl 2: Page S295-S300, 28th October 2022

149. Dr Raju Vaishya

Orthopaedics and Joint Replacement Surgery, Indraprastha Apollo Hospitals, Delhi

Publications


Vaishya R, Gupta BM, Kappi M, Vaish A, A scientometric analysis of india's publications in arthroplasty in the last two decades from the SCOPUS database, J Clin Orthop Trauma, Volume 34: Page 102041, 7th October 2022


Vaishya R, Jain VK, Iyengar KP, What do the Editors want from the authors?, J Orthop, Volume 32: Page 146-150, 9th June 2022


Vaishya R, Iyengar KP, Jain VK, Medical doctors in India are on strike: a moral and national conundrum, Postgraduate Medical Journal, Volume 98: Issue 1158: Page 313-314, April 2022

Vaishya R, Mishra AK, Vaish A, Effect of Body Mass Index on the outcomes of primary Total Knee Arthroplasty up to one year- a prospective study, J Clin Orthop Trauma, Volume 27: Page 101829, 8th March 2022


Vaishya R, Vaish A, All fields of Research and Publication (including in Diabetes) have shown a healthy rising trend from India in the last decade, Diabetes Met Syndromes: Clinical Research and Reviews, Volume 16: Issue 2: Page 102423, February 2022


Vaishya R, Karlapudi V, Paleti SV, Kambhampati SBS, Bibliometric analysis of orthopaedic related publications by Indian Authors from the last decade, J Clin Orthop Trauma, Volume 25: page 101775, 22nd January 2022

Vaishya R, Medical doctors in India are on strike: a moral and national conundrum, Postgraduate Medical Journal, Volume 98: Issue e2: Page e121-e122, March 2022


Vaishya R, Vaish A, All fields of Research and Publication (including in Diabetes) have shown a healthy rising trend from India in the last decade, Diabetes Met Syndromes: Clinical Research and Reviews, Volume 16: Issue 2: Page 102423, February 2022


Vaishya R, Karlapudi V, Paleti SV, Kambhampati SBS, Bibliometric analysis of orthopaedic related publications by Indian Authors from the last decade, J Clin Orthop Trauma, Volume 25: page 101775, 22nd January 2022

Vaishya R, Medical doctors in India are on strike: a moral and national conundrum, Postgraduate Medical Journal, Volume 98: Issue e2: Page e121-e122, March 2022


for Avascular Necrosis (AVN) of the femoral head: A scoping review, J Clin Orthop Trauma, Volume 24: Page 101691, January 2022


Editorial Board Membership

Editor-in-Chief, Journal of Orthopaedics, since December 2021

Founder Editor-in-Chief, Journal of Orthopaedic Reports, March 2022

Editor-in-Chief, Apollo Medicine, since March 2021

Editorial Board Member, International Orthopaedics (SICOT), since November 2021

Executive Editor and Advisor, Journal of Clinical Orthopaedics and Trauma, since January 2022

Editor-in-Chief, Journal of Arthroscopy and Sports Medicine, since April 2020

Editorial Board Member, Scientific Reports - Nature, since December 2022

Professional Societies’ Positions

Chairman, Basic Science and Research of Indian Orthopaedic Association, since 2022

Member, Specialists Board (Orthopaedics), Diplomat of National Board of India, since January 2022

Member, Steering group of Apollo Research Academy (ARA), since June 2022
Awards

Listed among the Top 2% Researchers in the world, standardized citation indicators. Ranked #1 amongst all the Indian Orthopaedic Surgeons, Stanford University, California, September 2022

Felicitated by Indian and Delhi Orthopaedic Association for being in the top 2% global researcher’s list of Stanford University, Nov. 2022

Distinguished Fellow Award, Global Association of Physicians of Indian Origin (GAPIO), February 2022

Best paper award of DOA, Trend and characteristics of Orthopaedic publications, Indian authors in the last two decades, November 2022

Shishak Ratan, IMA. South Delhi Branch, 11th September 2022

Chikitsa Ratna Award, IMA, South Delhi Branch, 11th July 2022

150. Dr Ranjan Modi
Cardiology, Indraprastha Apollo Hospitals, Delhi

Chapters contributed to text books

Dr Ranjan Modi, Dr Sunil Modi, Prevention of atherosclerosis in childhood and adolescents, Chapter 41, CSI Cardiology Update, Editors- Vijay Bang, Ashish Deshpande, Vigyan Bang, 1st edition, Jaypee Brothers Publications, Page 368-373, 2022

Publications

Dr Ranjan Modi, Dr Somendra Singh Rao, Dr Rajesh Sharma, Dr Naresh Gaur, ST-Elevation Myocardial Infarction of Inferior wall and Right ventricle in a Rheumatic mitral stenosis due to thrombus at Right coronary sinus, Journal of Cardiovascular Disease Research, Volume 13: Issue 1: Page 384-389, 2022


Orations

Faculty, Complex PTCA with Imaging, HD IVUS workshop, Session in CVT India, 6th August 2022

Lecture, Heart Disease In Young – The Recent Escalation, Venkateshwar College, Delhi, 19th October 2022

Lectures

Lecture, Treatment of cancer-associated venous thromboembolism in the era of direct oral anticoagulants, CME, Webinar, 12th January 2022

Lecture, Cardio-Renal and Viscero-Metabolic Benefits of SGLT2 inhibitors, CME, webinar, 28th January 2022

Lecture, Fondaparinux and Rivaroxaban in ACS Management, CME, Webinar, 17th February 2022

Lecture, Bisoprolol in Management of CHF and Hypertension CME, Webinar, 3rd March 2022

Lecture, Recommendations of the Advisory board members in establishing the protocol demonstrating the role of Fondaparinux in ACS, CME, Webinar, 23rd April 2022

Lecture, Early screening and treatment optimization for the management of iron deficiency in HF, Webinar, 23rd May 2022

Lecture, Evidence to Experience Sharing: Early Use of Empa+Lina FDC in patients of T2D, Webinar, 4th June 2022

Lecture, Acute coronary syndrome management in periphery, Jhansi IMA, Jhansi, 2nd July 2022
Lecture, Improving quality of life of Heart Failure patient, Webinar, 8th July 2022

Lecture, The Heart Failure Cascade and the Role of Mineralo-corticoid Receptor Antagonists, CME, webinar, 16th July 2022

Lecture, Vilda + Dapa FDC Rationale Benefits, Webinar, 27th July 2022

Lecture, NOAC in Acute Coronary Syndrome and Atrial Fibrillation, Webinar, 29th July 2022

Lecture, How to manage acute coronary syndrome, IN PERSON MEETING, Lalitpur, 26th August 2022

Lecture, Complex Left Main Intervention with Imaging, Webinar, 27th August 2022

Lecture, Case on Acute Coronary Syndrome and Atrial Fibrillation, Webinar, September 2022

Lecture, Exploring New trends in the management of Heart failure, Webinar, 8th September 2022

Lecture, Evidence for Direct Oral Anticoagulants for Stroke Prevention in Atrial Fibrillation and Diabetes, Webinar, 17th October 2022

Lecture, OCT conversations, Multivessel with left main PTCA with imaging, Webinar, 20th November 2022

Lecture, Be selective in selecting beta blocker combination that provides better cardioprotection, Webinar, 28th December 2022

Presentations

Paper Presentation, Oral PCKS9 Inhibitor or Inclisiran in Future, LAICON, Mumbai, 13th -14th August 2022

Paper Presentation, pre-existing bundle branch block: a determinant for PPI in TAVR, Gulf PCR, Dubai (UAE), 2022

Paper Presentation, Multivessel intervention with left main bifurcation and imaging (OCT), Gulf PCR, Dubai (UAE) 2022

Paper Presentation, PPI in TAVR, India Valves, Goa, 2022

Editorial Board Membership

Reviewer, International Journal of Cardiology and Cardiovascular Medicine, since 2018

Reviewer, Journal of Hypertension and Heart Care, since 2019

Professional Societies’ Positions

Member, FSCAI International, since 2022

Member, ACC- International Associate, since 2021

Member, APSIC- Associate Fellow, since 2019

Life Member, Indian College of Cardiology, since 2017

Life Member, Cardiology Society of India, since 2017

Awards

Most Promising Cardiologist of the Year, Nationwide Health care Awards, Business mint, 2022

151. Dr Ranjana Sharma

Obstetrics and Gynaecology, Indraprastha Apollo Hospitals, Delhi

Member of governing board of MCI / State Medical Council / autonomous medical institutions under the Government of India

Assessor, Thesis of DNB trainees, National Board of Examinations in Medical Sciences (NBEMS), Ministry of Health and Family Welfare, Government of India
152. Dr Richa Chaturvedi
Endocrinology, Indraprastha Apollo Hospitals, Delhi

Lectures

Lecture, Hyperthyroidism in young women: Management Approaches and Prevention of Complications, National API, Association of Physicians of India Conference, Virtual, 19th February 2022

Panel discussion, Glycemic variability predicts cardiovascular complications in type 2 diabetes regardless of HbA1c in target range, WCC, Women Cardiac Care, WINCARS, Women in Cardiology and Related Sciences, Virtual, 9th March 2022

Panel Discussion, Functional Hypothalamic Amenorrhea, WE CARE, Women Endocrine Care, National conference, Virtual, 13th March 2022

Lecture, Approach to a case of Thyroid Nodule, ESI, Endocrine Society of India, Satellite Symposium, Ahmedabad, 26th June 2022

Lecture, Biosimilars- evidence translating into clinical practice, ESICON, Endocrine Society of India Annual Conference, Jaipur, 23rd December 2022

Panel discussion, Management of Persistent Cushing's disease, ESICON, Endocrine Society of India Annual Conference, Jaipur, 23rd December 2022

153. Dr Rohini Handa
Rheumatology, Indraprastha Apollo Hospitals, Delhi

Books published

Editor- Handa R, Sharma A, Rheumatology Clinics: Rheumatoid Arthritis, Evangel Publications, New Delhi, July 2022

Chapters contributed to text books


Dr Handa R, Rheumatoid Arthritis- Historical Aspects, Chapter 1, Rheumatology Clinics: Rheumatoid Arthritis, Editors- Sharma A, Handa R, Evangel Publishing, Page 1-10, 2022

Dr Handa R, Basic considerations of Rheumatology, Volume 1, Section 3, Chapter 1, API Textbook of Medicine, Editor- Kamath, 12th edition, Association of Physicians of India, Page 367-371, 2022

Dr Handa R, Approach to a patient with Musculoskeletal Complaints, Chapter 227, Postgraduate Medicine, Editor- Wander GS, Jaypee Brothers Medical Publishers, Page 1813-1816, 2022

Publications

Handa R, Kumar A, Upadhyaya SK, Gupta SJ, Malgutte DR, Sleep quality in rheumatoid arthritis,
Indian J Rheumatol, Volume 17: Issue 1: Page 34-40, March 2022


Handa R, Malgutte D, Upadhyaya S, AB0281 The 2016 revised ACR fibromyalgia criteria identify a higher prevalence of fibromyalgia in rheumatoid arthritis patients: a cross-sectional study from India, Ann Rheum Dis, Volume 81: Page 1267, 23rd May 2022

Orations

Lecture, The 'Science' of Rheumatology and the 'Art' of being a Rheumatologist, 1st Joy Philip Oration, Rheumacon, Annual State Conference of Indian Rheumatology Association, Kerala State Chapter, Kollam, 15th -16th October 2022

Lecture, The 'Challenge' of Rheumatology and the 'Charm' of being a Rheumatologist, 1st MN Alam Oration, Bangladesh Rheumatology Society, Dhaka, 12th October 2022

Lecture, From Rheumatoid Spondylitis through AS to Nonradiographic SpA- Name changer or Game changer?, Dr BN Singh Oration, Patna, 26th -27th March 2022

Lectures

Session Chaired, Osteoarthritis in India in 2047 – Crystal Gaze, SOARCON Digital Conclave, National Conference of Society of Osteoarthritis Research, Virtual, 29th January 2022

Case discussion, A young male with skin thickening and breathlessness, Association of Physicians of India-Delhi State Chapter, API and Indian College of Physicians, Master Class, Virtual, 4th March 2022

Talk, Rheumatoid Arthritis- Key Takeaways in 2022, Global Orthopedic Forum Conference (GOFCON), Patna, 26th – 27th March 2022

Talk, Common pitfalls in Rheumatology and how to avoid them, 21st Annual Conference of East Delhi Physicians Association, New Delhi, 27th March 2022

Talk, Demystifying markers of CTD-ILD 23rd Joint National Conference of Pulmonary Diseases (NAPCON), Varanasi, 31st March 3rd April 2022

Talk, Musculoskeletal Examination in Clinical Practice, National Board of Examinations in Medical Sciences (NBEMS), Webinar, 5th April 2022

Talk, How to select and sequence drugs in Rheumatoid Arthritis?, 77th Annual Conference of the Association of Physicians of India, APICON, Jaipur, 14th -17th April 2022

Session chaired: Rheumatology Session, 77th Annual Conference of the Association of Physicians of India, APICON, Jaipur, 14th -17th April 2022

Talk, Approach to systemic vasculitis, National CME- Vasculitis, Kalinga Institute of Medical Sciences, Bhubaneswar, 23rd April 2022

Chair Scientific Committee, Delhi Rheumatology Association (DRA) Annual Rheumatology Update, AIIMS, New Delhi, 30th April 1st May 2022

Sessions chaired, Management of rheumatic diseases: The interface between primary physician and rheumatologist, Delhi Rheumatology Association (DRA) Annual Rheumatology Update, AIIMS, New Delhi, 30th April 1st May 2022

Lecture, Pulmonary hypertension (PH), Pulmonary arterial hypertension (PAH) and its management- For Rheumatologists, Delhi Rheumatology Association (DRA) Annual Rheumatology Update,
Editorial Board Membership

Member, Advisory, Editorial Board, Indian Journal of Rheumatology, since 2000
Advisor, Editorial Board, African Journal of Rheumatology, since 2013
Member, Editorial Board, Indonesian Journal of Rheumatology, since 2018

Professional Societies’ Positions

Member, Super Specialty Board of Clinical Immunology and Rheumatology, National Board of Examination, since March 2022
Mentor Education Committee, Asia Pacific League of Associations for Rheumatology (APLAR), since 2021

Member of governing board of MCI / State Medical Council / autonomous medical institutions under the Government of India
Member, Standing Selection Committee, PGI, Chandigarh

Awards

IRA Master, Indian Rheumatology Association, 37th Annual Conference of Indian Rheumatology Association, IRACON, Indore, 23rd – 27th November 2022

154. Dr S K Aggarwal

Internal Medicine, Indraprastha Apollo Hospitals, Delhi

Professional Societies' Positions

Specialist Board Member, General Medicine by National Board of Examinations, since 2022

Awards

Dr K D Gupta Centenary Award, Outstanding contribution to Medical Science, 12th October 2022
155. Dr Samir Tawakley
Radiology, Indraprastha Apollo Hospitals, Delhi

Publications


156. Dr Sandeep Guleria
Renal Transplant Surgery, Indraprastha Apollo Hospitals, Delhi

Professional Societies' Positions
Member, Fellowship Specialist Board, Renal Transplant, National Board of Examination, since March 2022

157. Dr Sangeeta Taneja
Radiology, Indraprastha Apollo Hospitals, Delhi

Professional Societies' Positions
Member, Fellowship Specialist Board in Breast Imaging, National Board of Examination, since March 2022

158. Dr Sanjiv Jasuja
Nephrology, Indraprastha Apollo Hospitals, Delhi

Publications


159. Dr Sapna Manocha
Radiation Oncology, Indraprastha Apollo Hospitals, Delhi

Publications
Sapna Manocha, Abhishek Soni, Ganesh K Jadhav, Sunil Chauhan, Brijesh Goswami, Monica Verma, Comparative evaluation of hypofractionated radiotherapy versus conventionally fractionated radiotherapy for patients with intermediate and high-risk prostate cancer, Reports of Practical Oncology and Radiotherapy, Volume 27: Issue 6: Page 1001–1009, 28th October 2022

160. Dr Saptarshi Bhattacharya
Endocrinology, Indraprastha Apollo Hospitals, Delhi

Chapters contributed to text books
Dr Saptarshi Bhattacharya, Disorders of anterior pituitary, Section 6, Chapter 4, API Textbook of Medicine, Editor- Sandhya A Kamath, 12th edition,
Jaypee Brothers Medical Publishers, Page 564-576, 2022

Publications


Lectures


Case discussion, Early gestational diabetes mellitus, Endocrine Society of India, North India Satellite Symposium, AIIMS Jodhpur, 3rd April 2022.
Lecture, Management of gestational diabetes mellitus, Hormone Rhythm, 4th Annual Conference of Karnataka Endocrine Society, Chikamagaluru, Karnataka, 10th April 2022

Lecture, Measures of Distress in Diabetes/ Menopause/ Obesity, Synapse, 3rd International Conference on Mind Body Medicine in Endocrinology and Diabetes, Pune, 23rd -24th April 2022

Lecture, Hypoglycemia in a non-diabetic adult, Crescendo, Annual Conference of RSSDI, West Bengal and Endocrine Society of Bengal, Kolkata, 29th April 2022

Lecture, Metabolic Encephalopathy: Endocrine Perspective, SPEEDCON, 5th Annual Conference of Society for Promotion of Education in Endocrinology and Diabetes (SPEED), Gurugram, 1st May 2022

Lecture, Approach to a young lady with BMI -37, Nepal India Collaboration in Endocrinology (NICE), South Asian Federation of Endocrine Societies (SAFES), Kathmandu, Nepal, 7th May 2022

Lecture, Role of liver in pathogenesis of diabetes and liver as a target for management, RSSDI-Mid Term CME, Assam Chapter, Kaziranga, Assam, 25th -26th June 2022

Lecture, Metformin in gestational diabetes mellitus, Endocrine Society of India, South India Satellite Symposium, Mysuru, 9th -10th July 2022

Lecture, Somno-Metabolic syndrome, Healthy Hormones, Sweet Diabetes Foundation in Association with Endocrine Society of India, 24th July 2022

Lecture, Preventing and managing hypoglycemia in diabetes, 11th Annual Scientific Conference of the Integrated Diabetes and Endocrine Academy, IDEACON, Kolkata, 1st August 2022

Lecture, 32-year unmarried lady with 6-month amenorrhoea, 11th Annual Scientific Conference of the Integrated Diabetes and Endocrine Academy, IDEACON, Kolkata, 2nd August 2022

Lecture, Interpretation of difficult thyroid function test reports and evaluation of a thyroid nodule from clinics to radiology, Thyroid workshop, 6th International Diabetes Experts Consortium, IDEC Academia Unlimited, Symbiosis, Pune, 7th August 2022

Lecture, Sweeteners: Artificial vs. natural: Are they safe?, Mid-CON, East Delhi Physician Association, EDPA, Delhi, 25th September 2022

Lecture, Sample collection, timing and transportation in endocrinology, Endocrine Society of India, Central India Satellite Symposium, Bhopal, 1st October 2022

Lecture, Endocrine management after pituitary surgery, 5th National Conference of Society of Internal Medicine of Nepal (SIMON), Pokhara, Nepal, 15th October 2022

Lecture, Gestational diabetes, UPAPICON, 39th Annual Conference of UP Chapter of API, API Noida Chapter, Noida, 17th December 2022

Lecture, Endocrinology of water, 63rd Annual Delhi State Medical Conference, Medicon, New Delhi, 18th December 2022

Lecture, Diagnosis and management of GDM, ESICON, 51st Annual Conference of Endocrine Society of India, Jaipur, 23rd December 2022

Presentations

Poster presentation, Knowledge, Attitude and Practices among 1099 People with T2DM across South Asia who Intend to Fast During Ramadan, International Diabetes Federation, Lisbon, 5th – 8th December 2022
Editorial Boards Membership

Editorial Board Member, Asian Journal of Diabetology (An IJCP group publication), since 2022

Editor, Endocrine Society of India, Newsletter, since 2022

Professional Societies’ Positions

Member, Executive Committee, Endocrine Society of India, since 2021

Founder Secretary, Endocrine Society of Delhi, since 2021

President, Society for Promotion of Education in Endocrinology and Diabetes (SPEED), since 2018

Awards

President's Award of Appreciation, Endocrine Society of India, January 2022

Inspiring Diabetologist and Endocrinologist of India, Economic Times Doctor's Day Conclave, Delhi, June 2022

161. Dr Shashi Kiran Pal

Urology and Andrology, Indraprastha Apollo Hospitals, Delhi

Orations

Talk, which is the best technique of PCNL, Marudhar Jodhpur Trust Oration, North Zone Urological Society Of India, 32nd Annual Conference Of Nzusi, Bikaner, Rajasthan, Virtual, 29th October 2022

Lectures

Talk, Supracostal punctures in PCNL, PURE urology group, Virtual, 6th January 2022

Talk, Most appropriate imaging modality for Pre op planning and post op complications of PCNL, Pakistan association of urological surgeons (PAUS), Aga Khan University, Karachi, Pakistan, Webinar, Virtual, 16th April 2022

Lecture, Ideal imaging solutions for PCNL, Urology, KMC Hospitals, Manipal, Webinar, Virtual, 20th April 2022

Talk, Tips and Tricks for managing Partial staghorn stones by Standard PCNL, 12th Endourology and Minimally invasive surgery, Military Medical Academy, Sofia, Bulgaria, European Association of urology section of urolithiasis (EULIS), Virtual, 29th April 2022

Faculty, Management of cases of complicated stone cases, Urotech 22, European association of urology (EAU) Urolithiasis section and EAU section of urotechnolgy, Istanbul, Turkey, 25th -28th May 2022

Talk, Three techniques of Percutaneous Access, Stone conclave, West zone chapter of USI, Bilaspur, Chhattisgarh, Virtual, 28th -29th May 2022

Talk, PCNL Access- Tips and Tricks, 5th Experts in stone disease (ESD) conference, Athens, Greece, Virtual, 11th - 13th June 2022

Talk, Supine versus prone PCNL, 5th Experts in stone disease (ESD) conference, Athens, Greece, Virtual, 11th - 13th June 2022

Talk, How to make an access into a non dilated system fully occupied by a complex stone, A Masterclass on PNL, Endourology academy, Munich, Germany, Virtual, 26th June 2022

Talk, Comparison between imaging algorithms before PCNL to limit the risk of complications, 11th Annual meeting of International alliance of urolithiasis, Guangzou, China, Virtual, 15th -17th July 2022

Talk, Tips for PCNL in Anomalous kidneys, 9th Annual international meeting of Golden bridge urological association, Kunming, China, Virtual, 12th November 2022
Faculty, Instructional course on PCNL, Society Internationale d' Urologie (SIU), 42nd Annual conference, Montreal, Canada, Virtual, 9th -13th November 2022

Talk, How to efficiently and safely perform standard PCNL, Society Internationale d' Urologie (SIU), 42nd Annual conference, Montreal, Canada, Virtual, 9th -13th November 2022

Faculty, Management of complex stone cases, 32nd World congress of videourology and advances in clinical urology, Ahmedabad, 17th -19th November 2022

Chairperson, Symposium on Staghorn Stones, Urolithiasis section of Urological society of India, Virtual, 3rd December 2022

Discussion, Primary Hyperoxaluria Type 1 as a cause of recurrent staghorn stones, Simultaneous Liver and Kidney transplant, Delhi urology society, Indraprastha Apollo Hospital, Delhi, 10th December 2022

Presentations

Video presentation, PCNL in Horse shoe kidney in prone position, Urotech 22, European association of urology (EAU) Urolithiasis section and EAU section of urotechnolgy, Istanbul, Turkey, 25th - 28th May 2022

Professional Societies' Positions

Charter Chairperson, Urolithiasis section of Urological society of India, since 2022

162. Dr Sudha Kansal

Respiratory and Critical Care Medicine, Indraprastha Apollo Hospitals, Delhi

Publications


163. Dr Sudheer Tyagi

Neurosurgery, Indraprastha Apollo Hospitals, Delhi

Professional Societies' Positions

Member, Super Specialty Board of Neurosurgery, National Board of Examination, since March 2022

164 Dr Sundeep K Upadhyaya

Rheumatology, Indraprastha Apollo Hospitals, Delhi

Publications


Lectures

Faculty, CRC Hyderabad and Faculty Clinical Rheumatology Conference, Delhi, 2022

165. Dr Suresh Singh Naruka

ENT and Head and Neck Surgery, Indraprastha Apollo Hospitals, Delhi

Publications

166. Dr Varun Bansal  
CTVS, Indraprashta Apollo Hospitals, Delhi

Lectures
Lecture, Robotic Assist Total Arterial CABG: Moving Towards Future, International Coronary Congress, Tokyo, Japan, 2nd December 2022

167. Dr Vinit Suri  
Neurology, Indraprashta Apollo Hospitals, Delhi

Publications
Vinit Suri, Sangeeta Tane, Aashim Ahuja, Amarnath Jena, 18F-FDG-PET/MRI in limbic encephalitis, Neurology India, Volume 70: Issue 5: Page 2183-2184, 2022

Dr Vinit Suri, Dr Manish Kulshrestha, Dr Anjali Kulshrestha, a study of treatment and clinical outcome in different stroke Category patients with acute ischemic stroke admitted at a Tertiary care hospital, in north India, International Journal of Scientific Research, Volume 11: Issue 11: Page 45-49, November 2022

168. Dr Viny Kantroo  
Respiratory and Critical Care Medicine, Indraprashta Apollo Hospitals, Delhi

Publications

Guwahati

169. Dr Dibyajyoti Bora  
Gastrointestinal Surgery, Apollo Hospitals, Guwahati

Publications

170. Dr Geetanjali Sahariah Khound  
Pediatrics, Apollo Hospitals, Guwahati

Publications

171. Dr Kripesh Ranjan Sarmah  
Pulmonary Medicine, Apollo Hospitals, Guwahati

Publications
172. Dr Moushumi Saikia
Lab Medicine, Apollo Hospitals, Guwahati

Professional Societies' Positions
General Secretary, Central Committee, Association of Clinical Chemistry and Lab Medicine Practitioners, since February 2022

173. Dr Rekha Khaund Borkotoky
Pediatrics, Apollo Hospitals, Guwahati

Publications

174. Dr Roshan Agarwala
Gastroenterology, Apollo Hospitals, Guwahati

Chapters contributed to text books
Dr Roshan Agarwala, Classification and Case Definitions in Gastrointestinal Tuberculosis, Chapter 3, Tuberculosis of Gastrointestinal System, Editor - Vishal Sharma, 1st edition, Springer Nature Singapore Pte Ltd, Page 21-36, 23rd February 2022

Publications

Hyderabad

175. Dr Ajesh Raj Saksena
Surgical Oncology, Apollo Hospitals, Jubilee Hills, Hyderabad

Chapters contributed to text books
Dr Saksena AR, Scope of Real Time Fluorescence Imaging in Esophagectomy, Chapter 2, Esophageal Surgery-Current Principles and Advances, Editors- Andrea Sanna, Intech Open, 2022

Publications
Raj SA, Nusrath S, Usofi AZ, Rajagopalan IR, Chyau PS, Srijan S, Raju KV, Rao TS, Initial experience with an integrated 4k and three-dimensional (3D) high definition (HD) Endoscopy for advanced oncological abdomino-Thoracic surgeries, Medical and Research, Volume 5: Issue 1, 15th December 2022


Lectures

Speaker, Sentinel lymph node biopsy in Gynecologic malignancies, Midterm NATCON IASO, Jodhpur, December 2022

Speaker, Reconstruction options for rectal resections, GI Onco Summit, Hyderabad, May 2022

Speaker, Role of ICG in GI Oncology, FALS Fellowship in Advanced Laparoscopy Program in Surgical Oncology, IAGES Mumbai Fortis Hospital, Mumbai, May 2022

Speaker, Reconstruction options for rectal resections, GI Onco Summit, Jaipur, July 2022

Presentations

Video presentation, Total laparoscopic anterior resection with partial cystectomy and intracorporeal anastomosis, Hyderabad Surgeons Society, May 2022

176. Dr C Venkata S Ram

Hypertension and Blood Pressure Management, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


C Venkata S Ram, Baby Shalini Muppalla, Sarvepalli Vijaya Parthasaradhi, Gajjela Praveen Kumar, Saumitra Ray, Uday Jadhav, J P S Sawhney, Govindan Unni, Nagaraj Desai, Achieving the Latest American Heart Association and American College of Cardiology therapeutic goals for hypertension with combination therapy and its effects on blood pressure and central hemodynamic parameters, The American Journal of Cardiology, Volume 168: Pages 78-82, 1st April 2022

177. Dr Ch Vasanth Kumar

Geriatrics and Internal Medicine, Apollo Hospitals, Jubilee Hills, Hyderabad

Books published

Associate Editor- Dr Ch Vasanth Kumar, RSSDI Text Book Of Diabetes Mellitus, 5th edition, 2022

Chapters contributed to text books

Dr Vasanth Kumar, Diabetes Self-management Education, Chapter 33, Sections 7-

Publications


Orations

Lecture, Blending Science and Art in defeating Diabetes, Presidential Oration, Annual Scientific meetings of Research Society for Study of Diabetes in India, Chennai, 6th October 2022

Lectures

Lecture, Prevention of Diabetes, Annual meetings of India chapter of American College of Physicians, Visakhapatnam, 19th November 2022

Key note address, Pre-Diabetes, 5th Annual Conference of Innovative Physicians Forum, IPF MEDICON, Royal College of Physicians Edinburg, New Delhi, 5th – 6th November 2022.

Editorial Boards Membership

Member, National Advisory Board of International Journal of Diabetes in Developing Countries, since 2018

Professional Societies' Positions

National President, Research Society for study of Diabetes in India (RSSDI), since 2022

Vice President, Indian Society of Hypertension, since 2020

Examinership

Examiner, Fellowship in Diabetes and Internal Medicine, Medvarsity, November 2022

178. Dr Chandrakant Tarke

Pulmonology, Apollo Hospitals, Jubilee Hills, Hyderabad

Lectures

Lecture, Best In Pulmonology, Conference, Guwahati, Assam, 10th -11th December 2022

Lecture, NAPCON, National Pulmonology Conference, Udaipur, Rajasthan, 10th- 13th November 2022

Lecture, Pulmonary Medicine, 15th South Zone Postgraduate, Secunderabad, 18th September 2022

Lecture, RAJPULMOCON, Rajasthan State Pulmonology Conference, Udaipur, Rajasthan, 7th -9th January 2022

Professional Societies' Positions

Chairperson, Indian Chest Society, South zone, since September 2022
Awards

Fellowship, National College of Chest Physicians (FNCCP), National Pulmonology Conference, NAPCON, Udaipur, 2022

Vaidya Ratna Award, Mother Foundation, Hyderabad, 2022

179. Dr Dilip Mathai
Infectious Diseases, Apollo Hospitals, Jubilee Hills, Hyderabad

Professional Societies’ Positions

Member, Fellowship Specialist Board in Infectious Disease, National Board of Examination, since March 2022

180. Dr J Prathiba
Microbiology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


181. Dr K J Reddy
Orthopedics, Apollo Hospitals, Jubilee Hills, Hyderabad

Professional Societies’ Positions

Member, Fellowship Specialist Board in Arthroplasty, National Board of Examination, since March 2022

182. Dr M Neeraja
Transplant Immunology, Apollo Hospitals, Jubilee Hills, Hyderabad

Presentations

Presentation, Virtual cross match using the single Antigen Bead Assay (Luminex technology), Transplant Conclave, PD Hinduja Hospital, Mumbai, 10th December 2022

Examinership

Examiner, 3rd Hands-on Training in HLA (HLA) Course, Indraprastha Apollo Hospitals, New Delhi, Indian Society of Blood Transfusion and Immunohematology (ISBT), 1st -6th August 2022

Awards

Academic Achievements Award, Identification of novel allele, HLA-B*44:256, in an individual from West Bengal in Eastern India, Apollo Hospitals Education and Research Foundation and Apollo Hospitals, 15th June 2022

183. M Kaushik Reddy
Orthopaedic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Lectures

Talk, Single Row Rotator Cuff Repair- Video technique, 1st Annual Bengaluru Arthroscopy Course, Bengaluru, 26th November 2022

Talk, Suture Anchors for Shoulder Instability Repair, S and N Instructional course, Eluru, 19th November 2022

Talk, Arthroscopic Rotator Cuff repair, Arthroplasty Arthroscopy Summit, Hyderabad, 11th September 2022

Moderator, Knee Arthroscopy session, OASISCON, Kurnool, 4th September 2022
Talk, multiligament injuries of Knee, Fireside chat session, Pune Knee Course, Pune 31st July 2022

Talk, Adhesive capsulitis- My Approach, Medicover Shoulder 360, Hyderabad, 10th July 2022

Talk, Double Row Suture Repair-Video technique, Manipal Whitefield International Shoulder Conference, 4th -5th June 2022

Faculty, 1st Annual Bengaluru Arthroscopy Course, Bengaluru, 26th November 2022

Faculty, S and N Instructional Course, Eluru, 19th November 2022

Faculty, 19th Annual Indian Arthroscopy Society Conference, Coimbatore, 15th -17th September 2022

Faculty, Arthroplasty Arthroscopy Summit, AIMS, Hyderabad, 11th September 2022

Faculty, Orthopaedic Association of South Indian States, OASISCON, Kurnool, 4th September 2022

Faculty, Medicover Shoulder 360, Hyderabad, 10th July 2022

Faculty, Manipal Whitefield International Shoulder Conference, Bengaluru, 4th -5th June 2022

Professional Societies' Positions

Medical Advisor, Telangana Olympic Association, since August 2022

Medical Advisor, Taekwondo Association of Telangana, since 20th January 2022

184. Dr M S Ratnamani

Microbiology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


185. Dr Mamatha Reddy

Obstetrics and Gynecology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


186. Dr Meenakshi Swain

Histopathology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


187. Dr Mohan Krishna Althuri

Orthopaedic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications

188. Dr Nallamili Somasekhara Reddy
Orthopaedic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


189. Dr Pradyut Waghray
Pulmonology, Apollo Hospitals, Jubilee Hills, Hyderabad

Awards
FRCP Fellowship, Royal College of Physicians London UK, September 2022

190. Dr R K Pinjala
Vascular Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Professional Societies’ Positions
Member, Super Specialty Board of Vascular Surgery, National Board of Examination, since March 2022

191. Dr Rajyalakshmi N Reddy
Dermatology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications

192. Dr Ravikanti Prasad
Radiology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications

193. Dr Rooma Sinha
Gynaecology, Laparoscopic and Robotic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications
Rooma Sinha, Samita Bhat, Madhumati Sanjay, Bana Rupa, Fozia Jelani, Comparative study of pipelle device versus conventional dilatation and curettage for endometrial sampling in diagnosis of endometrial pathology causing abnormal uterine bleeding or infertility in women > 25 years of age, European Journal of Molecular and Clinical Medicine, Volume 9: Issue 2: Page 1588-1596, 2022


Rooma Sinha, Bana Rupa, Mamatha Reddy, Beyond the learning curve: improving outcomes in Robotic myomectomy compared to laparoscopic


194. Dr Rupa Bana
Laparoscopic and Robotic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


195. Dr S V Prashanthi Raju
Internal Medicine and Preventive Medicine, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications

Prashanthi Vidyasagar Sangu, Nagalla Balakrishna, Bhargav Challapalli, Keerthana Ravikanti, Mini Female Health Program for detection of non-communicable diseases in Women – In an urban teaching hospital in India, Women’s Health, Volume 18: Page 1–8, 21st November 2022

196. Dr Sai Praveen Haranath
Pulmonology and Critical Care, Apollo Hospitals, Jubilee Hills, Hyderabad

Chapters contributed to text books

Dr Sai Praveen Haranath, Has Critical Care Telemedicine Come of Age During the Pandemic?, Chapter 18, Contemporary Topics in Critical Care Medicine, Editors- Atul P Kulkarni, Ross Callum Freebairn, Subhash P Acharya, 1st edition, Jaypee Brothers Medical Publishers, Page 97-101, December 2022

Dr Sai Praveen Haranath, Use of Electronic Record and Hybrid Integration of Electronic Intensive Care Unit in Critical Care Practice, Chapter 101, Critical Care Update, Editor- Deepak Govil, 4th edition, Jaypee publishers, Page 529-534, January 2022

Publications

Haranath SP, Ganapathy K, Baez AA, Scott BK, Telemedicine to expand access to critical care around the World, Crit Care Clin, Volume 38: Issue 4: Page 809-826, October 2022

197. Dr Sanjay Sinha
Urology and Transplant Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


Sanjay Sinha, Roger Roman Dmochowski,Hashim Hashim, Enrico Finazzi-Agrò, Valerio Iacovelli, The bladder contractility and bladder outlet obstruction indices in adult women. Results of a
global Delphi consensus study, Neurourol Urodyn, Volume 42: Issue 2: Page 453-462, 16th December 2022


Sanjay Sinha, Pawan Vasudeva, Sirish Bharadwaj, Ankur Mittal, Role of pelvic organ crosstalk in dysfunction of the bowel and bladder, current bladder dysfunction reports, Volume 17: Page 91–103, 14th January 2022


Lectures

Keynote Lecture, Australian Continence Foundation Annual Congress, Melbourne, 2022

Editorial Boards Membership

Associate Editor, Indian Journal of Urology, since January 2022


Sanjay Sinha, Pawan Vasudeva, Sirish Bharadwaj, Ankur Mittal, Role of pelvic organ crosstalk in dysfunction of the bowel and bladder, current bladder dysfunction reports, Volume 17: Page 91–103, 14th January 2022


Lectures

Keynote Lecture, Australian Continence Foundation Annual Congress, Melbourne, 2022

Editorial Boards Membership

Associate Editor, Indian Journal of Urology, since January 2022
200. Dr Suneetha Narreddy
Infectious Disease, Apollo Hospitals, Jubilee Hills, Hyderabad

Awards

Capital Foundation National Award, for outstanding and distinctive contribution to Infectious Disease Control, Capital Foundation Society and Justice Krishna Iyer Free Legal Aid Cell, New Delhi, 6th November 2022

201. Dr Swarnalatha Gowrishankar
Pathology, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


Professional Societies' Positions

Member, Specialist Board in Pathology, National Board of Examination, March 2022

202. Dr Vijay Dikshit
Cardio-Thoracic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Professional Societies' Positions

Member, Super Specialty Board of Cardio-Thoracic Surgery, National Board of Examination, March 2022

203. Dr Vimee Bindra
Gynaecology, Laparoscopic, Robotic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications


Vimee Bindra, Sowmya Sampurnaa, Sandesh Kadeb, Girija Shankar Mohantya, Nori Madhavic, P

Awards
Master Surgeon in Multidisciplinary Endometritis Care, SRC, December 2022

Indore

204. Dr Manish Khasgiwale
General and Laparoscopic Surgery, Apollo Hospitals, Indore

Chapters contributed to text books
Dr Manish Khasgiwale, Recent Advances in Laparoscopic Gastrectomy for Gastric Cancer with Special Reference to D2 Lymphadenectomy, Chapter 2, Recent Advances in Minimal Access Surgery, Editors- Deborshi Sharma, Priya Hazrah, Volume 1, Springer, Page 33-62, 2022

205. Dr Sarita Yadav Rao
Cardiology, Apollo Hospitals, Indore

Publications
Rao Sarita, Hemming heart with newer needles i hope the thread last forever, apollo medicine, Volume 19: Issue 3:Page 133-134, July–September 2022


Lectures
Faculty, Left Main Symposium, EURO PCR, Paris, 17th – 20th May 2022
Chairperson, NIC, Ahmedabad, 19th June 2022
Faculty, AICT ASIA PCR, Singapore, 21st – 22nd September 2022
Chairperson, TCT, Boston, 16th -19th September 2022

Presentations
Live case operator, World Congress of Cardiology, WCC, Rio de Janeiro, Brazil, 13th -15th October 2022
Live case operator, Interventional Imaging And Physiology Summit, Virtual, 2022

Professional Societies' Positions
Life Member, Cardio logical Society of India, since 2003
Life Member, WINCARS, since 2021
Joint Secretary, WINCARS, since 2021
Board Member, APSIC WIN, since 2022
Board Member, Stemi Council of CSI, since 2022
Board Member, Pink Council of CSI, since 2022

Awards
First Women to do Impella Assisted Protected PCI in India, 2022

206. Dr Vikas Gupta
Anesthesiology, Apollo Hospitals, Indore

Publications
Vikas Gupta, Ridhima Sharma, Syed Moied, Surendra Raikwar, Functional outcomes and quality of recovery after anaesthesia and surgery – Outreaching towards protracted goals, Indian J

Jayanagar

207. Dr P Satishchandra
Neurology, Apollo Hospitals, Jayanagar

Professional Societies’ Positions
Emeritus Professor, National Academy of Medical Sciences, since 2022

208. Dr Shruthi Panduranga
Radiology and Imaging, Apollo Hospitals, Jayanagar

Publications
Shruthi Panduranga, Samson Kade, Pooja Varwatte, Harisha V, Rare case of gastric schwannoma simulating gastrointestinal stromal tumor—a case report, SN Comprehensive Clinical Medicine, Volume 5: Issue 1: Page 1-8, 25th December 2022

Kolkata

209. Dr Amit Ghose
Urology, Apollo Multispecialty Hospital, Kolkata

Professional Societies’ Positions
Member, Fellowship Specialist Board in Minimal Access Urology, National Board of Examination, since March 2022

210. Dr Animesh Saha
Clinical Oncology, Apollo Multispecialty Hospital, Kolkata

Publications

Lectures
Lecture, Advances in lung cancer radiotherapy, PTWCON, ITC Sonar Bangla, Kolkata, March 2022

Awards
Adjunct title of Clinical Tutor, Apollo Hospitals

211. Dr Anjan Bhattacharya
Pediatrics, Apollo Multispecialty Hospital, Kolkata

Professional Societies’ Positions
Member, Specialist Advice Program, Governing body of dIAP’s Emotional Intelligence for Mental Health Enhancement, since 2022

212. Dr Debanjan Banerjee
Geriatric Psychiatry, Apollo Multispecialty Hospital, Kolkata

Lectures
Organizer, Undergraduate and postgraduate mental health awareness, 76th Indian Psychiatric Society (IPS) Foundation Day, 7th January 2022

Panelist, Human rights of older people and need for a UN Convention, International virtual conference, Sophia Centre for Women Studies and Global Alliance for Rights of Older People (GAROP), Webiner, 18th January 2022

Convenor, Human rights considerations in mental
health services for older people, Indian Psychiatric Society (IPS) geriatric psychiatry sub-section, Virtual, 9th January 2022

Convenor, Training and education in sexual and reproductive health, Indian Psychiatric Society (IPS) Section on Sexual Disorders, Virtual, 12th February 2022

Speaker, New Normal of Telepsychiatry- where do we stand?, Annual Congress of Indian Psychiatric Society, ANCIPS, Vizag, 24th -26th March 2022

Speaker, Dignity In Dementia care - focus on human rights, ANCIPS, Vizag, 24th - 26th March 2022

Speaker, Late Life Schizophrenia- Management Challenges, World Schizophrenia Awareness Day, Indian Psychiatric Society West Bengal Branch and Indian Association of Private Psychiatry (IAPP), West Bengal Branch, Kolkata, 24th May 2022

Speaker, Sleep In Late Life - Changes And Concerns, Regional Institute of Medical Sciences (RIMS), Imphal Golden Jubilee Celebrations, Conference On Sleep, Imphal, 3rd June 2022

Speaker, State Of Art Symposium, WPA Human Sexuality and Psychiatry Section, WCP, Bangkok, 3rd - 6th August 2022

Panelist, Alzheimer’s in Women, World Alzheimer’s Awareness Day, IPS Women’s Mental Health Section, 4th September 2022

Speaker, Behavioral and Technology Addiction - Clinical Management, WMHD, IPS WB State Branch and IMA WB Branch, 10th October 2022

Speaker, Somatic symptoms and their clinical relevance in neurocognitive disorders, IPS East Zone Annual Conference, CEZIPS, Kaziranga, Assam, 10th -12th November 2022


Speaker, Pros and Cons of Teleconsultation in Psychogeriatric Medicine, International Psychogeriatric Association (IPA) Debate, Virtual, 30th November 2022

Awards

Early Career Fellowship, World Congress of Psychiatry, WCP, Bangkok, 3rd -6th August 2022

Young Psychiatrist Fellowship, World Congress Of Asian Psychiatry, WCAP, Hyderabad, India, 16th - 18th September 2022

213. Dr Debraj Jash

Pulmonology, Apollo Multispecialty Hospital, Kolkata

Publications

D Jash, D Kishen Goel, SS Bhardwaj, A Bose, K Thakur, P Singh, Using modified DECAF Score in mortality prediction in acute exacerbation of COPD patients presenting to emergency department in a tertiary care hospital, European Journal of Molecular and Clinical Medicine, Volume 9: Issue 7: Page 2827-2839, 2022

D Jash, U Goenka, S Jajodia, S Ghosh, S Bandyopadhyay, Acute exogenous lipid pneumonia: Unusual presentation as cavitatinglung disease with pneumothorax, Respiratory Medicine Case Reports, Volume 36: Page 101593, 29th January 2022

Lectures

Talk, Endobronchial luminisation, BIPCON, AIIMS Patna, 2022

Talk, Bronchoscopy in elderly, GSICON, Kolkata, 2022
214. Dr J Sharma

Internal Medicine, Apollo Multispecialty Hospital, Kolkata

Publications


Sharma J, Chakraborty S, Gorai S, Immuno modulator therapy in life threatening skin disease, IJGC, Indian Journal of Geriatric Care, Volume 11: Issue 1, January-April 2022

215. Dr Kinsuk Das

Gastroenterology, Apollo Multispecialty Hospital, Kolkata

Publications


Lectures

Lecture, Hemostasis in non-variceal UGI Bleeding: Instruments and techniques, Mid-term ISGCON conference, Gastrocon, Kolkata, 15th July 2022

Presentations

Gastroenterology Quiz, Annual conference of ISG, West Bengal chapter, Digha, 20th February 2022

Professional Societies' Positions :

President, Indian Society of Gastroenterology, West Bengal chapter, since 2021

Examinership

Examiner, DrNB Medical Gastroenterology, FAT exam, Kolkata, 29th May 2022

Invigilator, DrNB Medical Gastroenterology, Final Practical Exam, Apollo Multispeciality Hospitals, Kolkata, 16th - 17th November 2022

216. Dr Koushik Lahiri

Dermatology, Apollo Multispecialty Hospital, Kolkata

Books published

Editor- Dr Koushik Lahiri, Superficial Fungal Infections, 2nd edition, Medicca Press Limited, 2022
Chapters contributed to text books

Dr Koushik Lahiri, Hypo and Hyperpigmentary Disorders of Vulva, Chapter 19, Aesthetic and Regenerative Gynecology, Editor- Preeti Jindal, Narendra Malhotra, Shashi Joshi, 1st edition, Springer Singapore, Page 181-190, 21st January 2022

Publications


Lectures

Lecture, Recent advances of topical treatment modalities of melasma, Pigmentarycon, Mumbai, 6th March 2022

Lecture, Counselling in Chronic Dermatoses, CUTICON WB, Kolkata, 26th March 2022

Lecture, Steroid abuse in children, 7th Continental Congress of Dermatology, Mexico, 22nd April 2022

Lecture, Steroid misuse, HOPECON, Kolkata, 27th May 2022

Lecture, How to Setup Aesthetic Clinic, Aesthetic Bangladesh, 8th October 2022

Lecture, Scar wars: my experience with fractional CO2 laser, Dermazone East, Kolkata, 18th -20th November 2022

Lecture, Counselling in Chronic Dermatoses, Dermazone East, Kolkata, 18th -20th November 2022

Lecture, Doyens of Dermatology from East, Dermazone East, Kolkata, 18th -20th November 2022

Chaired a session, Vitiligo International Symposium, Bangalore, 9th December 2022

Lecture, Steroid Phobia, SESNatCON, 17th December 2022

Editorial Boards Membership

Emeritus Editor, Indian Journal of Dermatology, since January 2018

Professional Societies’ Positions

Director, International Society of Dermatology, since 2021

President-elect, IADVL, WB, since 2022

Member of task forces of Government of the India or State Governments

Chairperson, IADVL Taskforce against Quackery (ITAQ), since 2022

Awards

IADVL Dermma Practice Award, E DERMACON, Indian Association of Dermatologists, Venereologists, and Leprologists, February 2022

Inspiring Dermatologist Award, Economic Times, 2022

217. Dr Mahasin Gazi

Radiation Oncology, Apollo Multispecialty Hospital, Kolkata

Publications

218. Dr Mahesh K Goenka

Medical Gastroenterology, Apollo Multispecialty Hospital, Kolkata

Books published

Editor- Dr Mahesh K Goenka, Progress in Gastroenterology and Hepatology, 1st edition, Evangel Publishing Pvt. Ltd, December 2022

Chapters contributed to text books

Dr Mahesh K Goenka, Approach to Obscure GI Bleeding, Medicine Update, editor- Shyam Sunder, Volume 33, Pages 604-609, 2022

Publications


Mahesh Kumar Goenka, Shivaraj Afzalpurkar, Gajanan Ashokrao Rodge, Usha Goenka, Successful extraction of hepatic duct calculus using retrieval basket under cholangioscopic guidance, Endoscopy, Volume 54: Issue 11: Page E656-E657, November 2022

Mahesh Kumar Goenka, Nikhil Sonthalia, Bhavik Bharat Shah, Flat-based over-the-scope clip-assisted endoscopic full-thickness resection of a duodenal neuroendocrine tumour: a safe alternative to endoscopic submucosal dissection, Endoscopy, Volume 54: Issue 7: Page E391-E393, July 2022


Orations

Lecture, Management of Acute Pancreatitis, RK Biswas Oration, Association of Physicians of India (West Bengal), Kolkata, 11th October 2022

Lectures

Lecture, Acute abdominal Pain in Aged, Geriatrics and Gerontology, 18th International Conference on Geriatrics and Gerontology, Kolkata, 3rd December 2022

Faculty, POEM, World Congress of Gastroenterology, Dubai, 12th – 14th December 2022
Lecture, Acute Pancreatitis, West Bengal chapter of API (Association of Physicians of India), 11th October 2022

Lecture, GI Bleed, Indian Society of Gastroenterology, Annual meeting of Indian Society of Gastroenterology, Varanasi, 12th November 2022

Lecture, Post ERCP Pancreatitis, Indian Pancreas club, Annual meeting of Indian Pancreas club, Delhi, 8th October 2022

Lecture, Post ERCP Pancreatitis, PGIMER, Chandigarh, 25th September 2022

Lecture, Selective Cannulation, Endocon, Annual meeting of Society of GI Endoscopy of India, Hyderabad, 8th -10th September 2022

Talk, Selective biliary cannulation, Post ERCP Pancreatitis, Gastrocon, mid-term meeting of Indian Society of Gastroenterology, Kolkata, 15th -17th July 2022

Lecture, Endoscopic Management of Bile duct stone, SGEI and Brazilian Society of Digestive Endoscopy Meeting, 28th May 2022

Lecture, AI in GI Endoscopy, 61st Annual meeting of ISG, Virtual, 13th February 2022

Moderator, Fatty Liver disease, GAPIO and ISG meeting, September 2022

Lecture, Post ERCP pancreatitis, American College of Gastroenterology symposium, 29th January 2022

Lecture, Monoclonal Antibody therapy in Inflammatory Bowel disease, American Society of Gastrointestinal Endoscopy, 22nd January 2022

Editorial Boards Membership

Editor-In-Chief, Journal of Digestive Endoscopy, since 2013

Editorial Board Member, Indian Journal of Gastroenterology, since 2019

Editor-In-Chief, e-WGN Publication of World Gastroenterology Organisation, since 2021

Editorial Board Member, Apollo Medicine, since 2020

Professional Societies’ Positions

Member, Super Specialty Board of Medical Gastroenterology, National Board of Examination, since March 2022

President, Indian Society of Gastroenterology, since 2021

Governor, Indian Region, American College of Gastroenterology, since 2018

Member of governing board of MCI / State Medical Council / autonomous medical institutions under the Government of India

Convenor, Medical Gastroenterology, National Board of Examination, India, since 2020

Examinership

Examiner, DrNB (Medical Gastroenterology), 16th -17th November 2022

Awards

Distinguished NBE Teacher Award, 3rd September 2022

219. Dr Priyanka Pipara

Obstetric and Gynaecology, Apollo Multispecialty Hospital, Kolkata

Chapters contributed to text books

Dr Priyanka Pipara, Management of Adenomyosis: Alternatives to Hysterectomy, Clinics of FOGSI, May 2022
Lectures

Penelist, Preterm Labor, FOGSI Presidential workshop, Karyashala, Kolkata, 29th January 2022

Speaker, Role of estrogen and progesterone in perimenopausal cardiac health, CME, Kolkata Menopause Society, Kolkata, November 2022

Speaker, Emergency Contraception Do's and Dont's, CME, Contraception, Kolkata, 2022

Panelist, Hyperglycemia in pregnancy, Yuva FOGSI, Ranchi, September 2022

Panelist, Role of Carbetocin in PPH, CME of BOGS, Kolkata, July 2022

Panelist, Perimenopausal bleeding, CME, Kolkata Menopause Society, Kolkata, June 2022

Speaker, Obesity in pregnancy, Annual Conference of AICC RCOG east zone, Kolkata, May 2022

Panelist, Infections in Pregnancy, BOGSCON, Kolkata, April 2022

Panelist, Case-based discussion on Menopausal Health, AICC RCOG east zone, CME, Menopausal Health, Kolkata, March 2022

Presentations

Video presentation, Caesarean Scar Ectopic, ENDOGYN, Kolkata, March 2022

Professional Societies' Positions

Member, Managing committee, Bengal Obstetrics and Gynaecology Society, since 2022

Secretary, Fertility and MTP subcommittee, since 2022

220. Dr Ramna Banerjee

Obstetric and Gynaecology, Apollo Multispecialty Hospital, Kolkata

Publications


221. Dr Saibal Moitra

Pulmonology, Apollo Multispecialty Hospital, Kolkata

Publications


222. Dr Saikat Sengupta

Anesthesiology, Apollo Multispecialty Hospital, Kolkata

Publications


Lectures


223. Dr Seeta Ramamurthy Pal
Obstetric and Gynecology, Apollo Multispecialty Hospital, Kolkata

Professional Societies’ Positions

Member, Fellowship Specialist Board in Maternal and Foetal Medicine, National Board of Examination, since March 2022

224. Dr Srinjoy Saha
Plastic Surgery, Apollo Multispecialty Hospital, Kolkata

Publications


Saha Srinjoy, Radical surgery for successful management of axillary hidradenitis suppurativa complicated by mycobacterial infections, Journal of Clinical and Diagnostic Research, Volume 16; Issue 4, PD03 - PD05, 2022

Orations

Faculty, Tissue Regeneration, 56th Annual Conference of the Association of Plastic Surgeons of India, Amritsar, 9th -13th November 2022

Lectures

Lecture, Minimally Invasive Reconstructive Surgery for Healing Complex Wounds, American College of Surgeons, Annual Clinical Congress, San Diego, 16th -20th October 2022

Lecture, Fingertip Regeneration with Stacked Biomaterials and Injectable Platelet-rich Fibrin, American College of Surgeons, Annual Clinical Congress, San Diego, 16th -20th October 2022

Presentations

Presentation, Minimally Invasive Reconstructions for Complex Wounds, Peet Award Session, 56th Annual Conference of the Association of Plastic Surgeons of India, Amritsar, 9th -13th November 2022

Presentation, Fingertip Regenerative Technique, Koul Innovation Session, 56th Annual Conference of the Association of Plastic Surgeons of India, Amritsar, 9th -13th November 2022

Presentation, Minimally Invasive Facial Transformation with Buccal Fat Grafting, Kamat Memorial Award Session, 56th Annual Conference of the Association of Plastic Surgeons of India,
Amritsar, 9th - 13th November 2022

Professional Societies' Positions

Member, Regenerative Medicine Committee, American Society of Plastic Surgeons, USA, since 2022

225. Dr Sudipta Sekhar Das
Transfusion Medicine, Apollo Multispecialty Hospital, Kolkata

Publications

Das SS, Biswas RN, Sen S, Chakrapani A, Therapeutic thrombocytapheresis as an important tool in the management of symptomatic hyperthrombocytosis: A single-institution experience from India, Global Journal of Transfusion Medicine, Volume 7: Issue 1: Page 7-11, 29th April 2022

Das SS, Mukherjee S, Sen S, Therapeutic plasma exchange using continuous flow cell separator machine in a Neuromyelitis Optica patient–outcome and analysis, Global Journal of Transfusion Medicine, Volume 7: Issue 1: Page 96-98, 29th April 2022


Lectures

Speaker, Clinical Uses of Blood: AMHL Training, Workshop, Apollo hospital, Kolkata, 23rd February 2022

Moderator, AIHA Current Knowledge and perspectives, Regional conference of Indian Society of Blood Transfusion and Immunohematology (ISBTI), Karnataka Chapter, Bangalore, 12th March 2022

Speaker, DAT +ve - No Worry, a practical Approach for giving safe Transfusion, Immunohematology workshop, Jaypee Hospital, Noida, 9th July 2022

Speaker, Resolution of DAT positivity and AIHA work-up, Postgraduate training workshop, Medanta-The Medcity hospital, Gurugram, 13th August 2022
incompatible Transplantation, National conference of Indian Society of Blood Transfusion and Immunohematology (ISBTI), TRANSCON, Jammu, 10th -13th November 2022

Speaker, DAT Overview and its Clinical Significance, Regional symposium on Immunohematology and Blood Transfusion, Apollo Hospitals, Chennai, 9th -10th December 2022

Editorial Boards Membership

Reviewer, International Editorial board, IBIMA publishing, USA, since January 2013

Reviewer, Asian Journal of Transfusion Science, India, since June 2012

Reviewer, Journal of Blood Transfusion, USA, since February 2013

Reviewer, International Journal of case reports in medicine, since August 2013

Reviewer, Indian Journal of hematology and blood transfusion, since June 2014

Reviewer, Saudi Medical Journal, since August 2014

Reviewer, Journal of Hematology. Blood Transfusion and Disorders, since 2015

Reviewer, Clinical Chemistry and Laboratory Medicine, since 2016

Reviewer, Global Journal of Transfusion Medicine, since 2016

Professional Societies' Positions

Lifetime member, Indian Society of Blood Transfusion and Immunohematology (ISBTI), since 2003

Lifetime member, Indian Society of Haematology and Transfusion Medicine (ISHTM), since 2003

Speaker, Rational Use of Blood and Blood Components, CME, AMRI hospital, Kolkata, 16th August 2022

Organizer, Immunohematcon East-2022, Apollo Hospitals, Kolkata, 20th August 2022

Speaker, Immunohematcon East-2022, Apollo Hospitals, Kolkata, 20th August 2022

Speaker, Interesting cases related to Blood group discrepancies, National workshop, Indian institute of Immunohematology, Mumbai, 30th August 2022

Speaker, Challenges in clinical, immunohematological characterization and transfusion management of AIHA in resource limited and advanced healthcare set up, Regional conference of the Indian Society of blood Transfusion and Immunohematology (ISBTI), Bareilly, 11th -12th September 2022

Speaker, Serological markers and in vivo hemolysis in autoimmune hemolytic anemia: The Immunohematological approach, National conference of The Indian Society of Transfusion Medicine (ISTM), TRANSMEDCON, Indore, 23rd - 25th September 2022

Speaker, Quality control in Immunohematology lab, National conference of Indian Society of Hematology and Blood Transfusion (ISHBT), HEMATOCON, Kolkata, 4th -6th November 2022

Speaker, Immunohematological characterization and evaluation of DAT positive samples in AIHA, National conference workshop of Indian Society of Blood Transfusion & Immunohematology (ISBTI), TRANSCON, Jammu, 10th -13th November 2022

Speaker, Quality control in Immunohematology lab, National conference of Indian Society of Blood Transfusion and Immunohematology (ISBTI), TRANSCON, Jammu, 10th -13th November 2022

Speaker, Serological challenges in ABO
Lifetime member, Indian Society of Transfusion Medicine, since 2010

Lifetime member, South Asian Association of Transfusion Medicine, (SAATM), since 2012

Member, Global Association of Physicians of Indian Origin (GAPIO), since 2012

Member, International Society of Blood Transfusion (ISBT), since 2014

Joint secretary, Indian Society of Transfusion Medicine, since 2016

Secretary General, Bengal Society of Transfusion Medicine, since 2017

Convenor, Special Interest Group–Immunohematology, Indian Society of Transfusion Medicine, since 2019

Member of task forces of Government of the India or State Governments

External resource person, Transfusion Medicine, National AIDS control organization, Government of India

Technical expert, Transfusion Medicine and Blood banking, Government of West Bengal


Member secretary, Eastern India, National hemovigilance program, Government of India

Core Member, Technical Committee, Cord Blood Banking, Government of West Bengal

NABH assessor, Blood Banks, Quality Council of India

Awards

The Corona Warrior Award, Indian Society of Blood Transfusion & Immunohematology (ISBTI), National Annual Conference of Transfusion Medicine, Jammu, November 2022

226. Dr Surajit Gorai

Dermatology, Apollo Multispecialty Hospital, Kolkata

Chapters contributed to text books


Publications


Lectures

Panelist, Resistant dermatophytes, Pan India session, 19th December 2022

Lecture, lip fillers whats new, CUTIGOLDCON, Dermazone, 17th November 2022

Lecture, How do I manage acne scar?, ACSICON, Kerla 16th September 2022

Professional Societies’ Positions

Joint Secretary, Indian Association of Dermatologist Venereologist and Leprologist (IADVL) West Bengal, Kolkata, since 2022
227. Dr Suresh Ramasubban
Critical Care, Apollo Multispecialty Hospital, Kolkata

Publications

Professional Societies’ Positions
Member, Super Specialty Board of Critical Care Medicine, National Board of Examination, since March 2022

228. Dr Suvadip Chakrabarti
Surgical Oncology, Apollo Multispecialty Hospital, Kolkata

Presentations
Case series presentation, ALT flaps as an alternate to TRAM flaps in selected and willing patient, IASO-NATCON, Madurai, 2022

229. Dr Tanweer Shahid
Radiation Oncology, Apollo Multispecialty Hospital, Kolkata

Publications
Tanweer Shahid, Sourav Mandal, Subhra Snigdha Biswal, Arundhati De, Mukti Mukherjee, Sandipan Roy Chowdhury, Anupam Chakrapani, Kirubha George, Jibak Bhattacharya, Prosenjit Soren, Tanmoy Ghosh, Biplab Sarkar, Luca Cozzi, Preclinical validation and treatment of volumetric modulated arc therapy based total bone marrow irradiation in Halcyon™ ring gantry linear accelerator, Radiat Oncol, Volume 17: Issue 145: Page 1-11, August 2022

230. Dr Tirthankar Chaudhury
Diabetes and Endocrinology, Apollo Multispecialty Hospital, Kolkata

Lectures
Poster presentation, Extended study on Modern Sus, IDF, Lisbon, December 2022

Speaker, National Insulin and Incretin Summit, Bangaluru, November 2022

Lecture, ASCVD and TYPE 1 Diabetes Mellitus, Diabetes India Conference, Ahmedabad, 20th - 22nd May 2022

231. Dr Usha Goenka
Radiology, Apollo Multispecialty Hospital, Kolkata

Professional Societies’ Positions
Member, Specialist Board in Radio Diagnosis, National Board of Examination, March 2022

232. Dr Ajayakumar T
Orthopedics, Apollo Adlux Hospitals, Kochi

Publications
233. Dr Lekshmi Thattamuriyil Padmakumari
Radiology, Apollo Adlux Hospitals, Kochi

Publications

Presentations
Presentation, The role of chest CT Radiomics in diagnosis of Lung cancer or Tuberculosis, European Congress of Radiology (ECR), Vienna, 13th – 17th July 2022

Editorial Boards Membership
Peer Reviewer, RSNA, European society of Thoracic Radiology, since 2022

234. Dr Philip George Kuttikattu
Radiation Oncology, Apollo Adlux Hospitals, Kochi

Publications

235. Dr Anil Agarwal
Pain Management and Anaesthesia, Apollo Medics Hospitals, Lucknow

Publications

236. Dr Anupam Wakehu
Clinical Immunology and Rheumatology, Apollo Medics Hospitals, Lucknow

Chapters contributed to text books
Dr Anupam Wakehu, Tropical Rheumatic Diseases, Chapter 16, API Textbook of Medicine, Editors-Sandhya A Kamath, Late Siddharth N Shah, Yash Pal Munjal, Milind Y Nadkar,12th edition, Page 472, 2022

Publications
Anupam Wakehu, Rasmi Ranjan Sahoo, Vikas Agarwal, Neglected tropical rheumatic diseases, Clinical Rheumatology, Volume 41: Issue 5: Page 1293-1304, 10th February 2022
237. Dr K N Prasad
Microbiology, Apollo Medics Hospitals, Lucknow

Publications

Awards
Honoured, Indian Academy of Tropical Parasitology for outstanding contribution, TROPACON, Kolkata, 2022

238. Dr Kashi Nath Prasad
Microbiology, Apollo Medics Hospitals, Lucknow

Chapters contributed to text books


Prasad KN, Brucellosis, IPOC-D-20-0060, India Point of Care, Editors- Dilip Mathai, Divya Deodhar, Kalyani Bobde, Elsevier, August 2022

Publications

Lectures
Lecture, Neglected Cestodes in India, CME, 45th National Conference of Indian Association of Medical Microbiologists, Bhubaneswar, 24th – 27th November 2022

Lecture, Helicobacter pylori vs Epstein-Barr virus in Gastric Cancer, 7th Bangladesh International Cancer Congress, Dhaka, 17th – 18th November 2022

Lecture, Global Burden and Indian Scenario of Neurocysticercosis, 18th National Conference of Indian Academy of Tropical Parasitology, Kolkata, 22nd -24th August 2022

Lecture, Taenia asiatica: Update, 18th National Conference of Indian Academy of Tropical Parasitology, Kolkata, 22nd -24th August 2022

Lecture, Taeniasis and Cysticercosis/Neurocysticercosis in Pig Farming Community and Swine from North India, 15th International Congress of Parasitology, Copenhagen, Denmark, Virtual, 21st -26th August 2022

Lecture, Clinical Presentations and Advances in Management of Neurocysticercosis, Webinar series, Indian Academy of Tropical Parasitology and Shri Sathya Sai Institute of Medical Sciences and Research, Puducherry, 16th June 2022

239. Dr Kavita Somani
Pathology, Apollo Medics Hospitals, Lucknow

Publications
Somani K, Singh P, Sujatha K, A case report of isolated bone marrow metastasis from neuroendocrine tumor of occult primary: A pathologist’s perspective on this unusual


presentation - A case report, Apollo Medicine, Volume 19: Issue 5: Page 18, January 2022

240. Dr Narinder Kumar
Orthopaedics, Apollo Medics Hospitals, Lucknow

Publications


Narinder Kumar, Cariappa P Mudera, Rohit D Bavdekar, Aravind Veirapia, Ranjith K Nair, Reaching Out to the Millions: A 5 Key Messages Rapid IEC Campaign During the COVID-19 Pandemic, Community Health Equity Research and Policy, Volume 42: Issue 3: Page 337–341, April 2022

Narinder Kumar, Population-level risks of alcohol consumption by amount, geography, age, sex, and year: a systematic analysis for the Global Burden of Disease Study 2020, Lancet, Volume 400: Issue 10347: Page 185-235, 16th July 2022

Narinder Kumar, Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life Years for 29 Cancer Groups From 2010 to 2019: A Systematic Analysis for the Global Burden of Disease Study 2019, JAMA Oncol, Volume 8: Issue 3: Page 420-444, 1st March 2022


241. Dr Narvesh Kumar
Nuclear Medicine, Apollo Medics Hospitals, Lucknow

Publications


242. Dr Pranjali Saxena
Pediatrics and Neonatology, Apollo Medics Hospitals, Lucknow

Professional Societies' Positions

National Trainer, IAP NNF Neonatal Resuscitation Programme, First Golden minute Project, since March 2022

243. Dr Pretty Singh
Pathology, Apollo Medics Hospitals, Lucknow

Publications

244. Dr R C Ahuja

General Medicine, Apollo Medics Hospitals, Lucknow

Awards

Distinguished Doctor of the Year Award, Internal Medicine, ASSOCHAM Healthcare Summit and Awards, October 2022

245. Dr R V Phadke

Interventional Radiology, Apollo Medics Hospitals, Lucknow

Publications

Phadke RV, Prasad SN, Sharma S, Singh V, Endovascular management of pulmonary arteriovenous malformations presenting as multiple brain abscesses, BMJ Case Reports CP, Volume 15: Issue 11: Page e251593, 1st November 2022

246. Dr Rani Kunti Randhir Singh

Radiology, Apollo Medics Hospitals, Lucknow

Publications

Singh RK, Singh SS, Kumar N, Atrey H, Isolated rectal metastases from locally advanced carcinoma prostate detected by 18F-PSMA-1007 PET/CT, World Journal of Nuclear Medicine, Volume 21: Issue 3: Page 248–250, September 2022

247. Dr S K Mishra

Endocrine and Breast Surgery, Apollo Medics Hospitals, Lucknow

Publications


248. Dr Saurabh Mishra

Medical Oncology, Apollo Medics Hospitals, Lucknow

Publications


249. Dr Shahzad Alam

Nephrology, Apollo Medics Hospitals, Lucknow

Publications


250. Dr Shikhar Sawhney

Head and Neck Surgical Oncology, Apollo Medics Hospitals, Lucknow

Publications


Lectures

Lecture, Pre-operative optimisation in oral cancer management, Oral Cavity Mastercourse, Annual National Meeting, Tata Memorial Hospital, Mumbai, July 2022

Presentations

Video presentation, Superficial Parotidectomy, KASOCON, Indian Association of Surgical Oncology, Kashmir Chapter, Pahalgam, 13th May 2022

Surgical video presentation, Superficial parotidectomy in a pulsatile parotid tumor, 22nd National Conference, Foundation of Head and Neck Oncology (FHNO), Guwahati, 4th – 6th November 2022

Awards

Best Surgical Video, 22nd National Conference, Foundation of Head and Neck Oncology (FHNO), Guwahati, 6th November 2022

251. Dr Sujatha Poduval
Pathology, Apollo Medics Hospitals, Lucknow

Publications


252. Dr U K Mishra
Neurology, Apollo Medics Hospitals, Lucknow

Publications


Misra UK, Tripathi A, Kumar M, Kalita J, Kant S, Renin, antidiuretic hormone (ADH), and ADH receptor levels in cerebral salt wasting associated with tuberculous meningitis, Neurological Sciences, Volume 43: Issue 5: Page 3361-3369, 5th January 2022


Ravindranath Aathira, Wadhwa, Rajkumar Prannath, Newer Investigations in the Diagnosis of Cirrhosis of Liver, APIK Journal of Internal Medicine, Volume 10: Issue 1: Page 1-2, January–March 2022

Lectures

Faculty, Tummy, Bowel and Beyond, Pediatric Gastroenterology module workshop- Fatty liver in children and Non-infective colitis, Cheluvamba hospital, Mysuru, 11th December 2022

Faculty, Prolonged jaundice in a newborn, IAP Gastroenterology chapter lecture series, Virtual, 30th November 2022

Faculty, GAPIO-IAP Pediatric Hepatology session, Virtual, 26th November 2022

Faculty, Pediatric Acute on chronic Liver failure, Pediatric Gastroenterology Literature festival, Chennai, 21st August 2022

Faculty, Approach to neonatal cholestasis and Approach to chronic diarrhoea, 10th Annual state conference of Gastroenterology chapter of IAP, Kochi, Kerala, 3rd July 2022

Faculty, Approach to Jaundice in an older child, Training of Trainers, Pedicon, Noida, 19th March 2022

Presentations

Paper presentation, USP53 gene– the new kid on the block causing low GGT cholestasis, Belgian Week of Gastroenterology, Antwerp, February 2022

Paper presentation, COVID-19 pandemic impact:
Delay in presentation and altered disease course in children with gastrointestinal and hepatic disorders in a tertiary care center, Belgian Week of Gastroenterology, Antwerp, February 2022

E-Poster presentation, Short double balloon enteroscopy assisted endoscopic retrograde cholangiopancreatography in patients with surgically altered anatomy, Belgian Week of Gastroenterology, Antwerp, February 2022

254. Dr Arun Srinivas
Cardiology, Apollo BGS Hospitals, Mysore

Publications
Dr Arun Srinivas, Nithin Bharadwaj, Dr Chandra Shekara Reddy, Dr Siddarth Kumar Chawath, Dr Lakshminarayan Achar, Wrong at right-a rare presentation of right a trial thrombus, International Journal of Science and Research (IJSR), Volume 11: Issue 11: Page 1272-1277, November 2022


255. Dr Aumir Moin
Neurology, Apollo BGS Hospitals, Mysore

Publications
Aumir Moin, B N Shiva Prasad, Subramanian Ramaswamy, Srinivas Nalloor, Neurosarcoidosis camouflaging as partial miller: fisher syndrome, Indian Journal of Rheumatology, Volume 20: Issue 20: Page 1-5, 26th October 2022

256. Dr Chandra Shekara Reddy G B
Cardiology, Apollo BGS Hospitals, Mysore

Publications

Dr Chandra Shekara Reddy, Mr Nithin Bharadwaj, Dr Arun Srinivas, Dr Siddarth Kumar Chawath, Dr Lakshminarayan Achar, Wrong at right-a rare presentation of right atrial thrombus, International Journal of Science and Research (IJSR), Volume 11, Issue 11: Page 1272-1277, November 2022


257. Dr Drishya Devasia
General Surgery, Apollo BGS Hospitals, Mysore

Publications

258. Dr Jayanth BN
General Surgery, Apollo BGS Hospitals, Mysore

Publications
259. Dr Lakshminarayan Achar
CTVS, Apollo BGS Hospitals, Mysore

Publications

Dr Lakshminarayan Achar, Nithin Bharadwaj, Dr Chandra Shekara Reddy, Dr Arun Srinivas, Dr Siddarth Kumar Chawath, Wrong at right-a rare presentation of right a trial thrombus, International Journal of Science and Research (IJSR), Volume 11: Issue 11: Page 1272-1277, November 2022


260. Dr Manjunath G S
Spine Surgery, Apollo BGS Hospitals, Mysore

Presentations

Poster presentation, Anatomical Basis for Laparoscopic retrieval of anti pulsed intrabody cage lessons from two cases, ELSA, Dubai, Virtual, 21st – 23rd October 2022

261. Dr Nairuthya S
Surgical Gastroenterology, Apollo BGS Hospitals, Mysore

Presentations

Oral presentation, Laparoscopic resection after self expanding stent insertion for obstructive left sided colo rectal cancer, Single centre experience, ELSA, Dubai, Virtual, 21st – 23rd October 2022

Poster presentation, Anatomical Basis for Laparoscopic retrieval of anti pulsed intrabody cage lessons from two cases, ELSA, Dubai, Virtual, 21st – 23rd October 2022

262. Dr Ramakrishna M N
Critical Care, Apollo BGS Hospitals, Mysore

Publications


263. Dr Shiva Prasad BN
Rheumatology, Apollo BGS Hospitals, Mysore

Publications

Shiva Prasad BN, Bacillus calmette–Guérin scar inflammation after COVID vaccination, Indian J Rheumatol, Volume 17: Issue 1: Page 170-173, June 2022


Lectures

Lecture, Year in Review (Including EULAR Updates): Sjogren’s Syndrome, SZIRACON, Vishakapatnum, 10th -11th September 2022

Presentations

Poster presentation, Cystic Neutrophilic Granulomatous Mastitis- A review of 5 cases, IRACON, 37th Annual conference of the Indian
Rheumatology Association, Indore, 23rd -27th November 2022

Poster presentation, Diabetic Myonecrosis: A single centre experience, IRACON, 37th Annual conference of the Indian Rheumatology Association, Indore, 23rd -27th November 2022

Professional Societies' Positions

Treasurer, Indian Rheumatology Association, Karnataka Chapter, since May 2022

Awards

Kolkon Oration Award, Community services by Indian Rheumatology association, IRACON, 37th Annual conference of the Indian Rheumatology Association, Indore, 23rd -27th November 2022

264. Dr Srinath S
General Surgery, Apollo BGS Hospitals, Mysore

Publications


265. Dr Srinivas Nalloor
Nephrology, Apollo BGS Hospitals, Mysore

Publications

Srinivas Nalloor, Aumir Moin, B N Shiva Prasad, Subramanian Ramaswamy, Neurosarcoidosis camouflaging as partial miller: fisher syndrome, Indian Journal of Rheumatology, Volume 20: Issue 20: Page 1-5, 26th October 2022

266. Dr Yashvantha Kumar V
Hepato Biliary and Liver Transplant Surgery, Apollo BGS Hospitals, Mysore

Chapters contributed to text books

Dr Yashvantha Kumar V, Liver Transplantation for Acute liver failure, Section 13- Live Transplant for ALF and ACLF, Chapter 66, Text Book of Liver Transplantation, Editor- Chirag Desai, 1st edition, Paras Medical Publisher, Page 882-895, September 2022

Navi Mumbai

267. Dr Abhishek Kulkarni
Paediatric and Adolescent Endocrinology, Apollo Hospitals, Navi Mumbai

Publications


Awards

Top Doctors Award, Paediatric and Adolescent Endocrinology, India Today group, 2022

268. Dr Bindhu K S
Obstetrics and Gynaecology, Apollo Hospitals, Navi Mumbai

Professional Societies' Positions

Member, Royal College of Obstetricians and Gynaecologists, since April 2022
269. Dr Aabha Nagral
Hepatology, Apollo Hospitals, Navi Mumbai

Publications


Nagral A, Rudra OS, Menezes S, Decompensation of cirrhosis: an unusual cause, Cureus, Volume 14: Issue 5: Page e24851, 9th May 2022


Nagral A, Adhyaru K, Menezes S, Mistry PK, Transjugular intrahepatic portosystemic shunt for refractory ascites in gaucher disease, Cureus, Volume 14: Issue 4: Page e23941, 8th April 2022


Lectures

Discussion on role of immunotherapy in HCC, 5th Annual Conference of Liver Transplant Society of India, LTSICON 2022, 7th January 2022

Presentations

Presentation, NAFLD name change conundrum, 8th Annual Conference of South Asian Association for the Study of the Liver, 3rd December 2022

Editorial Boards Membership

Member, Journal of Clinical and Experimental Hepatology (JCEH)

Professional Societies' Positions

Chairperson, Liver subcommittee ZTCC (Zonal...
Transplant Coordination Committee), Mumbai
Liver Committee Member, Regional Organ and Tissue Transplant Organisation (ROTTO)
Liver Committee Member, State Organ and Transplant Organization (SOTTO)
Chairperson, South Asian Association for study of Liver (SAASL) Women's Forum

Examinership
Examiner, National Board DNB Final Exam, Gastroenterology, Mumbai, 2022

Awards
Healthcare Pinnacle Award, Metropolis, 2022
Fellow of the Indian National Association for Study of the Liver (INASL), 2022

270. Dr Akshaykumar Chhallnai
General medicine and Critical Care Medicine, Apollo Hospitals, Navi Mumbai

Chapters contributed to text books
Dr Akshaykumar Chhallnai, Role of veterinary antibiotics in Human Resistance, Chapter 172, Medicine update, Editors- Shyam Sundar, Rajesh Upadhyay, 1st edition, Evangel, 2022

Publications

Lectures
Speaker, Diuretic infusion, Criticare, ISCCM event, National conference, Ahmedabad, 20th February 2022
Moderator, Interpretation of Lab results, Criticare, ISCCM event, National conference, Ahmedabad, 20th February 2022
Speaker, Antibiotic resistance, Apicon, National Conference, Ahmedabad, 15th April 2022

Professional Societies' Positions
Chairman, Critical CARE Society, Mumbai branch, ISCCM, since June 2022
Member of task forces of Government of the India or State Governments
Examinership

Examiner, IDCCM-post graduate diploma in Critical Care medicine, MGM Hospital, Navi Mumbai, April 2022

Chief examiner, IDCCN (nursing critical care), MGM Hospital, Navi Mumbai, June 2022

Examiner, Post graduate critical course, MGM, Navi Mumbai, March 2022

271. Dr Amit Kapoor
Neurosurgery, Apollo Hospitals, Navi Mumbai

Chapters contributed to text books

Dr Amit Kapoor, Meningiomas And Seizures, Chapter 7, Meningiomas Pgs Monograph Series, Editors - Dr M C Vasudevan, Dr A Vincent Thamburaj, Dr Suresh Nair, Dr Sanjay Bihari, Dr Anil Pande, 1st edition, Bohr Publications, 2022

272. Dr Anand Atmaram Zade
Nuclear Medicine, Apollo Hospitals, Navi Mumbai

Publications

Dr Anand Zade, Dr Shishir Shetty, Dr Asawari Ambekar, Dr Makarand Karpe, Interesting Image: F-18 PSMA uptake in male breast cancer during restaging evaluation of carcinoma prostate, Indian Journal of Nuclear Medicine, Volume 37: Issue 3: Page 277-278, July- September 2022

Lectures

Lecture, Evolving Role of Cancer Genetics Thyroid Carcinoma, Master’s Certificate Course in Clinical and Nuclear Thyroidology at Annual Conference of SNM, India (Western Chapter), Mumbai, 29th October 2022

Editorial Boards Membership

Reviewer, Indian Journal of Cancer, since March 2021

Reviewer, Journal of Nuclear medicine, since April 2021

Reviewer, Journal of Nuclear Medicine Technology, since April 2021

Professional Societies’ Positions

Executive Committee Member, Association of Nuclear Medicine Physician of India (ANMPI), since 2022

Treasurer, Society of Nuclear Medicine of India (Western Chapter), since 2022

273. Dr Ashwin Sunil Tamhankar
Uro-oncology and Robotic Surgery, Apollo Hospitals, Navi Mumbai

Books published

Editors - Ashwin Tamhankar, N Ragavan, Academy of Urooncology, AUO course book– Prostate Cancer, 2022

Editor - Ashwin Tamhankar, Urological Society of India Guidelines Prostate Cancer, 2022

Editor - Ashwin Tamhankar, Guide for manuscript writing, 2022

Publications

Lecture, Role of radiation therapy – adjuvant versus salvage, USICON, 55th Annual Conference, Ahmedabad, 27th – 30th January 2022

Lecture, Deep Blue– Organoids in Urology, WZUSICON, 32nd Annual Conference of the Urological Society of India West Zone, Nashik, 22nd – 25th September 2022

Lecture, Renorhaphy techniques post partial nephrectomy, SOGOCON, 1st Annual Conference of Society of Genitourinary Oncologists, (SOGO), 26th -28th August 2022

Panel discussion, Multiple forums, SOGOCON, 1st Annual Conference of Society of Genitourinary Oncologists, (SOGO), 26th -28th August 2022

Editorial Boards Membership

Reviewer, Indian Journal of Urology
Reviewer, Journal of Endourology
Reviewer, Journal of Robotic Surgery
Reviewer, Indian Journal of Cancer

Professional Societies’ Positions

Council Member, Mumbai Urological Society, since 2021
Council Member, Indian School of Urology, Urological Society of India, since 2021
Council Member, Collaborative Research Committee, Urological Society of India, since 2021

274. Dr Dhanya Dharmapalan
Pediatrics, Apollo Hospitals, Navi Mumbai

Books published

Editors- Dhanya Dharmapalan, Suhas Prabhu, Vijay Yewale, Winsley Rose, Evidence based Practices in Pediatric Infectious Diseases, Evangel Publishers, 1st January 2022


Publications

Dharmapalan D, Chandy SJ, Oral Faropenem Sodium- Implications for Antimicrobial Resistance and Treatment Effectiveness, Indian Pediatrics, Volume 59: Page 879-881, September 2022


Dharmapalan D, Overview of antibiotics, Indian Journal of Practical Pediatrics, Volume 24: Issue 1: 3-4, 2022


Lectures

Moderator, PIDS-WHO, World Antimicrobial Awareness Week, 18th – 24th November 2022

Speaker, Polio-lessons from past and way ahead Dafpal, Indian Academy of Pediatrics, June 2022

Lecture, Diagnosis of Fungal Infections, Pedicon, Indian Academy of Pediatrics, January 2022

Editorial Boards Membership

Member, Pediatric Infectious Diseases, IAP ID Chapter, since 2009

Guest Editor, Frontiers in Pediatrics, since 2022

Professional Societies' Positions

Co-lead, Global Health subcommittee, Pediatric Infectious Disease Society, since 2018

275. Dr Jayalakshmi T.K

Pulmonary Medicine, Apollo Hospitals, Navi Mumbai

Publications

Dr Jayalakshmi T K, Dr Bhumika Madhav, Dr Dhanaji Rewande, Dr Gokul Bhate, Outcome of hospitalized covid 19 patients with underlying respiratory illness in second and third wave, European Respiratory Journal, Volume 60: Issue S66, Page 3138, September 2022

Lectures

Lecture, Role of Yoga in chronic lung diseases and pulmonary rehabilitation, NAPCON, Udaipur, 10th -13th November 2022

Lecture, Comparison of severity of Covid infection in staff before and after vaccination, COPD, Webinar, 13th September 2022
**Presentations**

Poster presentation, Outcome of hospitalized covid 19 patients with underlying respiratory illness in second and third wave, ERS, Virtual, 4th September 2022

Poster presentation, Incidentally detected Ectopic Thyroid tissue in patient with right paratracheal mass, NAPCON, Udaipur, 10th -13th November 2022

Poster presentation, Bilateral Bronchiectasis in a patient diagnosed with Common Variable Immunodeficiency, NAPCON, Udaipur, 10th -13th November 2022

Poster presentation, Analysis of Gene Xpert MTB in diagnosis of Pulmonary and Extra Pulmonary tuberculosis, NAPCON, Udaipur, 10th -13th November 2022

Paper presentation, Pattern of covid 19 infection in 1st wave, 2nd wave and 3rd wave among hospital staff, Napcon, Udaipur, 12th November 2022

Paper presentation, Comparison of severity of Covid infection in staff before and after vaccination, Napcon, Udaipur, 12th November 2022

**276. Dr K V Charan Reddy**

Interventional Cardiology, Apollo Hospitals, Navi Mumbai

**Chapters contributed to text books**

Dr K V Charan Reddy, Dr Vijay Bang, Therapies in Resistant Hypertension (RHTN), Chapter 54, Textbook of Cardiology, Editors- Chopra HK, NC Nanda, Jagat Narula, G.S.Wander, CN Manjunath and Praveen Chandra, 3rd edition, Jaypee Brothers, Page 123-126, 2022

Dr K V Charan Reddy, Dr Chetan Shah, Thrombus prevention and exercise, Chapter 27, ACT Textbook of Cardiology, Editor- HK Chopra, 6th edition, Jaypee Brothers, Page 147-150, 2022

Dr K V Charan Reddy, Dr Chetan Shah, Exercise, dyslipidemia and Statin therapy, Chapter 91, ACT Textbook of Cardiology, Editor- HK Chopra, 6th edition, Jaypee Brothers, Page 1056-1061, 2022

**Publications**


Awards

Best International Researcher Award, Structural and Interventional Cardiology, Medical Research Council (MRC), 20th May 2022

Academic Achievement Award, for the study on Challenges to Transcatheter Aortic Valve Implantation through Femoral Access in Elderly with Peripheral Artery Disease, Apollo Hospitals, 12th September 2022

InRes-Young Achiever Award, Structural and Interventional Cardiology, InRes Institute of Researchers, India, 29th December 2022

277. Dr Kiran Godse

Dermatology, Apollo Hospitals, Navi Mumbai

Books Published


Orations

Lecture, Urticaria, Dr L Marquis Oration, IADVL Maharashtra Branch, 16th January 2022

Lecture, Urticaria Guidelines, IADVL, Annual Meeting, Nashik, 26th November 2022

Awards

Dr Leslie Marquis Oration Award, Indian Association of Dermatologists for his contribution in the field of Urticaria, January 2022

278. Dr Laxman G Jessani

Infectious Diseases, Apollo Hospitals, Navi Mumbai

Chapters contributed to text books

Dr Laxman G Jessani, Donovanosis, Chapter 13e, API textbook of Medicine, Editors-Sandhya A Kamath, Siddharth N Shah, Yash Pal Munjal, Milind Y Nadkar, 12th edition, Jaypee publisher, Page e44-e45, 2022

Lectures

Lecture, Fungal infection in immunocompetent host, CIDSCON, Nagpur, 27th September 2022

279. Dr Mahesh Chavan

Endocrinology, Apollo Hospitals, Navi Mumbai

Awards

Fellow, American college of Endocrinology (FACE), November 2022

280. Dr Punit Jain

Haematology, Apollo Hospitals, Navi Mumbai

Chapters contributed to text books

Dr Punit Jain, Primary Immunodeficiency in adults, Chapter 45, Progress in Medicine, Editors- Girish Mathur, 1st edition, Jaypee Brothers Medical Publishers, Page 215-219, 2022

281. Dr Sanjay Khare

Internal Medicine, Apollo Hospitals, Navi Mumbai

Publications

Dr Sanjay P Khare, Dr Akashdeep, Waghmare, Dr Falguni Mishra, Dr Nazia Khan, Falling from frying pan into fire-the complexities in internal medicine, International Journal Of Scientific Research, Volume 11: Issue 12: Page 82-83, December 2022
Dr Sanjay P Khare, Dr Akashdeep, Waghmare, Dr Falguni Mishra, Dr Nazia Khan, The Iceberg Phenomenon: Bane Of Diabetes, Indian Journal of Applied Research, Volume 12: Issue 11: Page 64-65, November 2022

Dr Sanjay P Khare, Dr Falguni Mishra, Dr Rizwan H Tanwar, Severe Chronic Vitamin B6, B12 And Folic Acid Deficiency Presenting As Deep Vein Thrombosis, Global Journal For Research Analysis, Volume 11: Issue 9: Page 13-14, September 2022

Dr Sanjay P Khare, Chikungunya Presenting With Pulmonary Involvement An Unusual Manifestation, Apollo Medicine, Volume 19: Page 115-117, April – June 2022

Dr Sanjay P Khare, Disrobing The Onion Peels-Unrevealing The Mysteries Within, International Journal Of Medical And All Body Health Research, Page 52-54, July – September 2022

282. Dr Saurabh Ajit Deshpande
Cardiac Electrophysiology, Apollo Hospitals, Navi Mumbai

Publications

Saurabh Ajit Deshpande, Shishir Roul, Hafeezunissa Rehman, Efficacy and Safety of Remdesivir in Indian Patients with Moderate to severe COVID-19: Results from the open label Phase II Randomised Controlled Trial, International Journal of Scientific Research, Volume11: Issue 1: Page 64-70, January 2022


Lectures

Lecture, Acquired Long QT Syndrome, DM-DNB Arrhythmia Teaching Program, Virtual, 7th August 2022

Lecture, Pacemakers, Fortis Nurses Lectures, Mumbai, 23rd September 2022

Lecture, Implantable Cardioverter Defibrillator,
Fortis Nurses Lectures, Mumbai, 21st October 2022

Lecture, RBBB morphology wide complex tachycardia: Case Studies, Indian Society of Electrocardiography National Meeting, Mumbai, 20th November 2022

Lecture, Sudden Cardiac Arrest, Maharashtra Indian Medical Association National Conference, Shirdi, 20th November 2022

283. Dr Vijay Yewale
Pediatrics, Apollo Hospitals, Navi Mumbai

Professional Societies’ Positions

Member, Specialist Board in Pediatrics, National Board of Examination, since March 2022

284. Dr Vipinkumar Pathak
Radiology, Apollo Hospitals, Navi Mumbai

Publications

Dr Vipinkumar Pathak, Dr Rohan Sawant, Cephalothoracophagus Janicep Monosymetros, International Journal of Scientific Research, Volume 11: Issue 11, November 2022

Nellore

285. Dr Bindu Menon
Neurology, Apollo Hospitals, Nellore

Books published

Editor- Dr Bindu Menon, Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence, 1st edition, Elsevier, 23rd February 2022

Publications


Bindu Menon, Thanh N Nguyen, Muhamma, M Qureshi, Piers Klein, Hiroshi Yamagami, Robert Mikulik, Global Impact of the COVID-19 Pandemic on Stroke Volumes and Cerebrovascular Events: A 1-Year Follow-up, Volume 100: Issue 4: Page e408-e421, 18th October 2022


Lectures

Organizing Secretary, 9th Annual international conference Pearls in clinical neurology, Virtual, 10th -11th December 2022

Organizing secretary, Neuro Essentials, 20th November 2022

Lecture, Stroke syndrome, Chittoor Medical college, 30th October 2022

Lecture, Recent advances on Stroke, IMA Cuddapah, 23rd September 2022

Lecture, Stroke- every minute counts, Ramachandra Hospital Nellore, 2022

Lecture, Vascular cognitive impairment- What should be the best practice, GSICON, Kolkata, 3rd - 4th December 2022

Lecture, Stroke Syndrome, Neuroessentials CME, Nellore, 20th November 2022

Lecture, Management of epilepsy in women in their reproductive years, ECON, Thiruvananthapuram, Kerala, 5th -7th August 2022

Lecture, Challenges in Neurological care- Bridging the unmet needs, IFNRCON, Symposium Global Action plan, Virtual, 23rd April 2022

Chaired session, Brain fog, GSICON, Kolkata, 3rd - 4th December 2022

Awards

Mridha Spirit of Neurology award, The American Academy of Neurology and American Brain Foundation, April 2022

A.B. Baker Teacher Award, American Academy of Neurology, April 2022

Fellowship, American Academy of Neurology FAAN, April 2022

IHW Patient First Award, for Innovation in Patient Centricity and Advocacy, Gold category, IHW Council, 13th May 2022

Noida

286. Dr Deepa Passi

Pediatric, Apollo Hospitals, Noida

Books published

Editor- Dr Deepa Passi, Substance Abuse In Children and Adolescents-An Emerging Demon, Indian Academy of Pediatrics, PEDICON, 2022

Lectures

Talk, Normal menstruation, hygiene and management and myths, International Adolescent Health Week, AACCI, Youth Forum NCR, AHA Delhi, IAPWW and IAHWW, Noida, 25th March
2022

Panel Discussion, Topic gender identity issues, First Asian Conference, ADOLESCON, Kolkata, 5th November 2022

Organising Secretary, National save the girl child along with DIAP, 24th January 2022

Talk, Save the Girl Child, National save the girl child along with DIAP, 24th January 2022

Talk, Exam stress -strategies and healthy life-style, AHA Delhi, Youth Forum NCR and Delhi, AACCISGRH New Delhi, Virtual, 2nd February 2022

Talk, Gender sensitization-break the bias, Women’s Day, AHA, Delhi, Youth Forum NCR, AACCISGRH, Noida, 8th March 2022

Convener, Self-defence, Awareness Program, PEDICON, Noida, 19th March 2022

Chaired Session, Media influence debate, Adolescent Health CME, PEDICON, Noida, 20th March 2022

Chaired Session, Parenting with punishment, identity issues in adolescents, adolescent health CME, PEDICON, Noida, 20th March 2022

Convener, Life-skill balance, IAPWW Workshop, PEDICON, Noida, 21st March 2022

Convener, Endocrinology TOT, PEDICON, Noida, 21st March 2022

Talk, Our planet our earth, World Health Day, 7th April 2022

Organiser, Essay competition, how environment affects our health, World Health Day, 7th April 2022

Panel Discussion, Adolescent health- menstrual health, wash, psychological problems, life-skills, IAP, EAST Delhi, Virtual, 16th April 2022

Talk, Road map of obesity in community amongst adolescents, IAPWW UP Branch, Virtual, 22nd February 2022

Panel Discussion, HMB, nutrition, girl-child, MH, wash, adult vaccination, boy periods, Catch Up Series, IAPWW, Place, 22nd May 2022

Talk, Sexuality, FEMPEDICON, Nashik, 5th February 2022

Talk, Importance of Breast Milk, Breast Milk Week, Noida, August 2022

Panelist, Dehradun North Zone, ADOLESCON, Dehradun, 24th September 2022

Talk, How Different is it to Deal with an Adolescent Client, Dehradun North Zone, ADOLESCON, Dehradun, 24th September 2022

Moderator, PCC Module of IAPWW, Role Out, 26th September 2022

Speaker, Mental Health Being in PPC Module, AHA and IAP, Delhi, 30th September 2022

Lecture, Ethical Issues in Paediatric Practice, PCNI, Delhi, 29th October 2022

Lecture, Poor Academic Performance in Teens, Mission School Uday Workshop, 4th November 2022

Talk, Empowering Adolescent Girls- Defending Herself and Release Module, IAPWW, 24th March 2022

Presentations

Presentation, Prevention of Suicide in Adolescents, Soveneir First Asian Conference, ADOLESCON, Kolkata, 4th – 6th November 2022

Presentation, Dating in Teens, Soveneir First Asian Conference, ADOLESCON, Kolkata, 4th – 6th November 2022
Professional Societies' Positions
Secretary, Adolescent Health Academy Delhi, since 2022
Member, Executive Board, IAPWW UP Branch

Awards
Appreciation Award, Designing the AHA Logo, Asian Conference, ADOLESCON, Kolkata, 6th November 2022

OMR

287. Dr Krishna Kumar
ENT, Apollo Speciality Hospitals, OMR

Publications
K Krishna Kumar, VJ Niranjana Bharathi, Rare Case of T-cell Lymphoma of Tongue in a Young Female, Acta Scientific Otolaryngology, Volume 4: Issue 6: Page 39-41, 18th May 2022

Awards
Top ENT Surgeons in South India, Outlook Magazine, October 2022

288. Dr Pratheema Ramachandran
Critical Care, Apollo Speciality Hospitals, OMR

Publications
Dr Pratheema Ramachandran, Dr Nagarajan Ramakrishnan, Dr Bharath Kumar TV, Dr C Vignesh, Dr Ebenezer R, Dr Ashwin Kumar Mani, Dr Meghena Mathew, Effect of Antiplatelet Therapy on Survival and Organ Support–Free Days in Critically Ill Patients With COVID-19, A Randomized Clinical Trial, JAMA, Volume 327: Issue 13: Page 1247-1259, April 2022

Lectures
Panelist, Apollo Emerge Gastroconference, March 2022
Faculty, Apollo ER conference, March 2022
Faculty, EMCON- Mechanical ventilation national workshop, November 2022

Professional Societies' Positions
Executive Board member, Academic secretary, College of Neurocritical Care, CNCC, India, since September 2022

Examinership
Examiner, IDCCN- Indian Diploma of Critical Care Nursing, 2022

289. Dr Shekar M G
Urology, Apollo Speciality Hospitals, OMR

Awards
Sri Vedanayagam Urooncoogy Award, TAPASUCON, September 2022

Secunderabad

290. Dr Amitava Ray
Neurosurgery, Apollo Hospitals, Secunderabad

Publications
291. Dr Ashish Chauhan  
Internal Medicine and Diabetology, Apollo Hospitals, Secunderabad  
Awards  
State for Excellence Award, Medical Profession, LB Stadium, December 2022

292. Dr Kiran Maacha  
Internal Medicine, Apollo Hospitals, Secunderabad  
Awards  
Seva Ratna Award, Mother Theresa foundation, August 2022

293. Dr N P Padmakar  
Urology, Apollo Hospitals, Secunderabad  
Awards  
Aswari Bai Memorial Award, 24th February 2022

294. Dr Rajyalakshmi Konathan  
Dermatology, Apollo Hospitals, Secunderabad  
Awards  
Vaidya Ratna Award, 2022

295. Dr Subimal Bhattacharjee  
Internal Medicine, Apollo Hospitals, Secunderabad  
Awards  
Seva Ratna Award, Mother Theresa foundation, August 2022

296. Dr T Sateesh Kumar  
Critical Care, Apollo Hospitals, Secunderabad  
Publications  

Seshadripuram

297. Dr Chaitra P Adiga  
Radiology, Apollo Hospitals, Sheshadripuram  
Publications  

298. Dr Himaaldev G J  
Intensive Care, Apollo Hospitals, Sheshadripuram  
Chapters contributed to text books  
Dr Himaaldev G J, Dr Divya Shetty, Surgical wound classification and perioperative antibiotic therapy, Section 6, Chapter 52, Critical Care Medicine: Bench to Bedside, Editor- Bikram Kumar Gupta, Syed Moeid Ahmed, Rakesh Garg, 1st edition, Jaypee, Pages 326-330, June 2022  
Publications  
Lectures

Lecture, Immunomodulators in sepsis: Role of ulinastatin in sepsis – Indian critical care league, ISCCM, Ranchi, 2022

Lecture, Hiflow nasal oxygen therapy and Noninvasive ventilation, Medical Education Research Trust National Symposium in Cardiology, API Bhavan, Bangalore, 2022

Presentations

Paper Presentation, ECMO and PCO2, the fatality in near fatal asthma, Global Intensive Care Symposium, Clarks Exotica, Bangalore, 17th September 2022

299. Dr Jagadish B Agadi
Neurology, Apollo Hospitals, Sheshadripuram

Presentations

E Poster presentation, An interesting case of right sided isolated 3rd cranial nerve palsy, IANCON, Indian Academy of Neurology Annual Conference, New Delhi, 5th November 2022

300. P Jagadeesh Kumar
Pulmonary Medicine, Apollo Hospitals, Sheshadripuram

Publications

Dr P Jagadeesh Kumar, Dr Sharada Shekar, Dr Asha MA, A study of quality of life in patients with TB, Journal of Cardiovascular Disease Research, Volume 13: Issue 5: Page 2842-2845, 2022

Dr P Jagadeesh Kumar, Dr Sharada Shekar, Dr Asha MA, Mortality indicators in covid 19, Journal of Cardiovascular Disease Research, Volume 13: Issue 5: Page 2837-2840, 2022

301. Dr Prakash P
Radiology, Apollo Hospitals, Sheshadripuram

Professional Societies’ Positions

Secretary, Society of Fetal Medicine (Karnataka Chapter), since 2022

302. Dr Sharath Kumar GG
Diagnostic and Interventional Neuroradiology, Apollo Hospitals, Sheshadripuram

Publications


Sharath Kumar Goddu Govindappa, Chaitra Parameshwara Adiga, Vaishnavi Srinarahari, Sujit kumar, Ophelia syndrome followed by tubercular meningitis in a patient with relapsed Hodgkin lymphoma, could MR imaging have saved his life?, Acta Neurol Belg, Page 1-4, July 2022


Sharath Kumar GG, Saikant Deepalam, Ata Siddiqui, Chaitra P Adiga, Savith Kumar, Shivakumar Swamy Shivalingappa, Ullas V Acharya, Lakshmikanth N Goolahally, Saksham Sharma, DPhilip Andrew, Pradeep Hosmani, Satish Nair, Gaurav Medikeri, Ravi Mohan Rao, Jagadish B Agadi, Sujit Kumar, Gurucharan Adoor,


G G Sharath Kumar, Delon Dsouza, Rohit Baddala, Raghunandan Nadig, MRI Brain Features in Nitrobenzene Toxic Encephalopathy, Ann Indian Acad Neurol, Volume 25: Issue 2: Page 267–268, March – April 2022


**Teynampet**

**303. Dr Anil D Cruz**
Oncology, Apollo Cancer Institute, Teynampet

**Professional Societies' Positions**
Member, Fellowship Specialist Board in Head and Neck Oncology, National Board of Examination, since March 2022

**304. Dr Ayyappan**
Surgical Oncology, Apollo Cancer Institute, Teynampet

**Professional Societies' Positions**
Member, Super Specialty Board of Surgical Oncology, National Board of Examination, since March 2022

**305. Dr Bhagyam Raghavan**
Radiology, Apollo Cancer Institute, Teynampet

**Professional Societies' Positions**
Member, Fellowship Specialist Board in Breast Imaging, National Board of Examination, since March 2022
306. Dr Jayaraj Govindaraj
Radiology, Apollo Cancer Institute, Teynampet

Professional Societies' Positions
Member, Specialist Board in Radio Diagnosis, National Board of Examination, March 2022

307. Dr Rohit Aravindakshan Kooloth
Critical Care Medicine, Apollo Cancer Institute, Teynampet

Chapters contributed to text books
Nagarajan Ramakrishnan, Rohit Aravindakshan Kooloth, Suresh Kumar Sundaramurthy, Critical Care in Discrete Locations, Chapter 87, Critical Care Update, Editors- Deepak Govil, Rajesh Mishra, Dhruva Chaudhry, Subhash Todi, 4th edition, Jaypee, Page 462-466, 2022

308. Dr Swetha Lakshmi Narla
Histopathology, Apollo Cancer Institute, Teynampet

Publications

Vanagaram

309. Dr Ebenezer R
Critical Care Medicine, Apollo Hospitals, Vanagaram

Publications
Dr Ebenezer R, Dr Bharath Kumar TV, Dr Nagarajan Ramakrishnan, Dr C Vignesh, Dr Ashwin Kumar Mani, Dr Meghena Mathew, Dr Pratheema Ramachandran, Effect of Antiplatelet Therapy on Survival and Organ Support–Free Days in Critically Ill Patients With COVID-19, A Randomized Clinical Trial, JAMA, Volume 327: Issue 13: Page 1247-1259, April 2022

310. Dr Joy M Thomas
Cardiology, Apollo Hospitals, Vanagaram

Lectures
Lecture, Basics of cardiac electrophysiology, Association of Physicians of India Chennai Chapter, Annual Meet, Chennai, 3rd December 2022
Lecture, Arrhythmias in Amyloidosis, Cardiological Society of India, Annual Meet, Chennai, 9th December 2022
Lecture, Sudden Cardiac Death in TOF, Cardiological Society of India, Annual Meet, Chennai, 10th December 2022
Lecture, Asymptomatic WPW, Indian Society of Electrocardiology Golden, Jubilee Meet, Mumbai, 18th November 2022

Editorial Boards Membership
Peer Reviewer, Indian Heart Journal, since 2018
Editor, Indian Journal of Electrocardiology, since 2020
Professional Societies’ Positions

Executive member, Cardiological Society of India, Chennai Chapter, since 2020

311. Dr Karthik Madesh Ratnavelu

ENT-Head and Neck Surgery, Apollo Hospitals, Vanagaram

Lectures

Speaker, Surgical Solutions to Sleep Apnea, Update in ENT, Meenakshi Medical college hospital and research institute, Kanchipuram, 30th November, 2022

312. Dr P R Prabash

Neurology, Apollo Hospitals, Vanagaram

Publications


Lectures

Chairperson, Vertigo and Dizziness subsection meeting, IANCON, Delhi, 2022

313. Dr R Dhananjayan

Biochemistry, Apollo Hospitals, Vanagaram

Books published

Editor- Dr R Dhananjayan, Stress Management, 1st edition, Discovery Publications, December, 2022

Chapters contributed to text books

Dr R Dhananjayan, Endothelial Dysfunction in Type 2 Diabetes Mellitus, Chapter 2, Recent Advances in Health Care – II , Editor- Dr Ananda Vayaravel C,

Dr Kuzhandai Velu V, Dr Kalaiselvi Rajendiran, Dr Akshaya Sridhar, 1st edition, ScienG Publications, Page 7 – 11, December 2022

Publications


Dhananjayan R, Diagnostic importance of N-terminal B-type natriuretic peptide (NT-Pro-BNP), International Journal of Science and Research, Volume 11: Issue 12, Page 727 – 729, 2022


Orations

Speaker, Laboratory Errors, CME, GCLP, Sri Venkateshwara Medical College Hospital and Research Centre, Puducherry, 2022

Speaker, 48th National Conference of Association of Clinical Biochemists of India, ACBICON, Gangaram Hospitals, New Delhi, 22nd – 26th November 2022

Talk, Ethical Considerations of Good Clinical Laboratory Practices (GCLP), 48th National Conference of Association of Clinical Biochemists of India, ACBICON, Gangaram Hospitals, New Delhi, 25th November 2022
Speaker, Convergence, International Conference on Allied Health Sciences, Vijaya Hospitals, Vijayawada, 14th – 15th May 2022

Talk, Good Clinical Laboratory Practice (GCLP) in Clinical biochemistry, Convergence, International Conference on Allied Health Sciences, Vijaya Hospitals, Vijayawada, 14th – 15th May 2022

Speaker, Stepping Stones International, Aurangabad, Maharashtra, 31st January 2022

Lecture, Importance of Vaccination, Stepping Stones International, Aurangabad, Maharashtra, 31st January 2022

Lectures

Lecture, Cardiac Markers in Emergency – What’s New?, Saveetha Dental College, Saveetha University, Chennai, 16th July 2022

Professional Societies' Positions

Life Member, Association of Clinical Biochemists of India, since 2003

Examinership

Examiner, Ph.D. (Medical Biochemistry) Methodology Examinations, Saveetha Dental College Saveetha Institute of Medical and Technical Sciences (SIMATS), Deemed University, Chennai, 30th March 2022

Awards

Third Prize, SNIBE Co Ltd (Diagnostics), National Conference of Association of Clinical Biochemists of India, ACBICON, Gangaram Hospitals, Delhi, 22nd November 2022

314. Dr Siddhartha Ghosh

Neurosurgery, Apollo Hospitals, Vanagaram

Chapters contributed to text books

Dr Siddhartha Ghosh, Falcine meningioma, Chapter 25, Meningiomas – PGINS monograph Series, Editors- M C Vasudevan, A V Thamburaj, Suresh Nair, Sanjay Behari, Anil Pande, BOHR Publishers, Page 335-344, 28th January 2022

Lectures

Speaker, Medial sphenoid wing meningiomas – A surgery with caution, 23rd Annual conference of skull base surgery society of India, NIMHANS, Bangalore, 5th -6th November, 2022

Presentations

Paper presentation, Medial sphenoid wing meningioma, SBSSI, Neurological society, Indore, 29th -30th April 2022

Paper presentation, Annual conference of the TN association of neurological surgeons, TANS, Tanjore, 1st May 2022

Professional Societies' Positions

Life Member, Indian Medical Association, Since 2014

Life Member, Neurological society of India, Since 1998

Member, Society of Neuro-Oncology, Since 2007

Active International member, Congress of Neurological Surgeons, Since 1998

Life member, Skull base society of India, Since 2008

Chairman, Walter E Dandy Neurosurgical Society India Chapter, Since 2014

Life member, Indian society for stereotactic and functional neurosurgery, Since 2000

Awards

JIS Mahasamman, Educational Initiatives, JIS group, 14th May 2022
315. **Dr Swati Halbe**

Interventional Radiology, Apollo Hospitals, Vanagaram

**Professional Societies’ Positions**

Member, Super Specialty Board of Interventional Radiology, National Board of Examination, since March 2022

**Vizag**

316. **Dr R Rajesh Kumar Reddy**

Orthopedic, Apollo Hospitals, Vizag

**Presentations**

Case Presentation, SITS (Stryker Intermediate Trauma Series) Trauma Case Hunt, Hyderabad, 21st May 2022

**Awards**

Stryker Best Case Presenter Award, SITS (Stryker Intermediate Trauma Series), South Indian States Trauma Case Hunt, Hyderabad, 21st May 2022
Indraprastha Apollo Hospitals, Delhi was the first hospital in India to be accredited in 2005. Apollo Hospitals in Chennai, Hyderabad, Bengaluru, Mumbai, Kolkata, Ahmedabad, and Apollo Proton Cancer Centre, Chennai have been accredited by Joint Commission International, USA. The accreditation underlines our commitment to provide our patients with the highest standards of clinical care, safe environment, medication safety, respect for rights and privacy, international infection control standards and access to a dedicated, well-trained staff.

Joint Commission International (JCI), is widely considered as the gold standard in healthcare accreditation. Apollo Hospitals, Hyderabad was the first hospital in the world to receive the disease-specific certification for stroke management.