Dear Colleague

2013. A GOOD YEAR

Every year, the Apollo Hospitals Group makes significant advancements in clinical care, academics and research. The annual Apollo Excellence Report is a way of expressing our gratitude to you for your contribution in making these advancements possible.

The Apollo Excellence Report 2013 summarises the improvements in clinical outcomes, patient safety indices, compliance to systems and processes, new initiatives in clinical excellence and patient safety, progress in academics and new research initiatives.

This report allows us to share the achievements of our consultants and the recognition received by the Apollo Group with experts in India and abroad. Forty one research papers by our consultants were recognized in 2013 and 120 consultants contributed their achievements for publication in the report.

Our respected Chairman, Dr. Prathap C Reddy was honoured with the prestigious Asian Business Leaders Forum Lifetime Achievement Award in Dubai in December 2013. Dr. Reddy was honored by CNBC TV18 at the India Business Leaders Awards 2013. He received the Lifetime Achievement Award by NDTV.

Apollo Hospitals were the winners of 10 awards in 9 categories at the prestigious Hospital Management Asia awards at Bangkok in 2013. The organizers gave the Apollo Group a standing ovation by conferring Apollo with the “Special Outstanding Achievement Award”. Apollo also won three awards at the FICCI Healthcare Excellence awards and emerged as the winner in the category - ‘Most Popular Paediatric Hospital Chain’ in the inaugural edition of ‘Child Best Awards’. Apollo Hospitals Group won the Frost & Sullivan 5th Annual India Healthcare Excellence Award 2013 in the category of “Healthcare Service Provider Company of the Year”.

The Week - AC Nielsen, Best Hospital Survey 2013 ranked Apollo Hospitals amongst the top hospitals in India yet again. Apollo Hospitals, Chennai was ranked the 2nd best and Indraprastha Apollo Hospitals, Delhi was ranked the 4th best multi-speciality hospital in the private sector in India. Apollo Hospitals, Chennai, Indraprastha Apollo Hospitals, Delhi, Apollo Gleneagles Hospitals, Kolkata and Apollo Hospitals, Hyderabad were ranked the best multi-speciality hospitals in the private sector in their respective cities.

Winston Churchill had said, “Every day you may make progress. Every step may be fruitful. Yet there will stretch out before you an ever-lengthening, ever-ascending, ever-improving path. You know you will never get to the end of the journey. But this, so far from discouraging, only adds to the joy and glory of the climb.” We are all together in this journey, and we are confident that our every step will make 2014 exciting.

With warm regards

Anupam Sibal
MD, FIMSA, FIAP, FRCP (Glasg), FRCP (Lon), FRCPCH, FAAP
Group Medical Director, Apollo Hospitals Group
World-class consultants
Cutting edge technology
Standardized systems and processes
Measured outcomes
Patient Safety at the core
Clinical audits
8 JCI, 11 NABH accredited hospitals
1000 post graduate medical students
Centres of Excellence
Pioneering research

THE APOLLO EXCELLENCE REPORT 2013
THE APOLLO EXCELLENCE REPORT 2013

A report on clinical, academic and research excellence at Apollo hospitals
The year that was - 2013

Clinical Excellence
The Apollo Standards of Clinical Care (TASCC)
Apollo Clinical Excellence Scorecard (ACE@25)
ACE@25 Awards
Apollo Quality Program
ACE Platform
Apollo Innovation and Quality Awards 2013
Share Your Story
Apollo International Forum on Infection Control
III International Congress on Patient Safety
Patient Safety Declaration
Handholding Workshop on Patient Safety
Mentoring and Knowledge Sharing Initiative in Clinical Nutrition Practice
Clinical Innovation Report and New in Medicine
JCI Accreditation
NABH Accreditation
Quality Improvement Projects

Academics
Postgraduate Medical Education at Apollo
Apollo ties up with Rochester University
Medvarsity
International Postgraduate Pediatric Certificate

Research
AhERF adjunct tiles
Published papers recognised
Clinical fellowships of AhERF
Apollo Medicine Journal
AhERF:
  • Translational Research
    » Bio-Banking and Personalized Medicine
    » Glioblastomas
  • Basic Research
    » Genetic association of Coronary Artery Disease in Young Indian Adults
    » Pathogen detection and discovery, using High Throughput Platforms

Recognition for Apollo Hospitals
Hospital Management Asia Awards 2013
Asian Business Leaders Forum Lifetime Achievement Award 2013
India Business Leaders Awards 2013
Lifetime Achievement Award by NDTV
THE WEEK-A C Nielsen, Best Hospital Survey 2013
FICCI Healthcare Excellence Awards 2013
Frost & Sullivan 5th Annual India Healthcare Excellence Awards 2013
HIMSS Asia Pacific Recognizes Apollo Hospitals
HIMSS Elsevier award for Apollo Hospitals
Child Best Awards
Asian Training and Development Awards
Porter Prize, 2013

Our consultants achieve

• Epidemiological research
  » Prevalence of Non-Alcoholic Fatty Liver Disease (NAFLD) in school children (5-10 yrs)
  » Rural health camps at Gandhigram
  » Prevalence of anemia and obesity at Sivagangai
  » Analysis of Gender based newer risk factors for Coronary Artery Disease
  » Haematological and Biochemical Reference Levels in a healthy Indian Population
  » Abnormal Blood lipids and glucose levels among healthy Indian population

• Clinical Research
  » Non-Drug Clinical Studies
  » Research Grants Program
  » Innovations
    » Paraxel
    » UE Life Sciences
    » First Warning Systems, Inc
  » Educational Initiatives
    » Advanced Certificate Course in Clinical Research at PG level
  » Collaborations
    » Medtronic
    » Philips
    » Anna University Chennai, India
    » International Clinical Epidemiology Network (INCLEN)
  » Analytics for Life Collaboration (AFL)
THE YEAR THAT WAS - 2013

Excellence Hardwired

After 3 decades of relentless pursuit excellence is now a habit. an attitude.
Apollo Hospitals continued its journey in its pursuit of excellence into another year with 2013 seeing many new milestones and accomplishments, overcoming challenges and setting of newer goals and targets.

The average scores of The Apollo Standards of Clinical Care (TASCC), which includes our Clinical Excellence Scorecards Apollo Clinical Excellence @ 25 [ACE @ 25], Rocket ACE [RACE], the Apollo Quality Program (AQP) dashboard, incidents, mortality review and Apollo Critical Policies Plans and Procedures [ADPPP] showed a steady increase from 216 in April 2012 to 293 in December 2013 representing increasing standardization of processes and improving outcomes across Group hospitals.

Continuing the ACE @ 25 improvement journey, Apollo Hospitals, Hyderabad from Group A hospitals, Apollo Hospitals, Secunderabad from Group B hospitals and Apollo Hospitals, Bhilai and Apollo Hospitals, Noida from Group C hospitals were declared ACE @ 25 champions for 2013 and were awarded the trophies along with a cash prize of 2.5 lakhs, 1.5 lakhs and 1 lakh each respectively. An analysis of ACE @ 25 and AQP parameters individually showed an increase in compliance levels for various parameters in 2013. The group average ACE @ 25 and AQP scores also increased. AQP was presented at the International Society for Quality in Healthcare (ISQua) conference in Edinburgh in 2013.

Our latest quality initiative ACE Platform (ACEP) was launched in June 2013. It is a standardized tool to share the best practices for clinical excellence and quality improvement implemented by Apollo hospitals with other healthcare providers. The initiative is pro-bono and intends to contribute to enhancement of quality of healthcare delivered across India. ACEP is a standardized tool which can be used by any hospital across the country to drive quality improvement, improvement in patient safety and better clinical outcomes. ACEP comprises of important indicator sets for monitoring quality and clinical excellence along with policies which would deal with the core processes in patient care. Fifteen hospitals have adopted ACEP.

Apollo Innovation and Quality awards kept the motivation for innovation alive in the Apollo hospitals teams and 183 nominations were received from 19 locations for the Apollo Innovation and Quality Awards 2013. The winning projects were from Apollo Hospital Bangalore for Clinical Services, Apollo Hospital Chennai for Operations, Indraprastha Apollo Hospital Delhi for Human Resources and Finance and Apollo Gleneagles Hospital Kolkata for Environmental Conservation and Community Services.

The “Share your story” initiative, conceptualised with the view of sharing of best practices amongst Apollo Group hospitals on one chosen topic every quarter, saw best practices being shared for Patient falls, ALOS (Average Length of Stay) post renal transplant, Pressure Ulcers and Needle Stick injuries.

The 1st Apollo International Forum on Infection Control (AIFIC) was organised on 5th and 6th January, 2013. This forum brought together some of the best renowned international and regional professionals in this field. The forum offered a unique platform to share the latest advances in infection control practices and strategies.

The 3rd International Congress on Patient Safety was held on the 6th and 7th September, 2013 at Hyderabad. The conference was hosted by the Apollo Hospitals Group and supported by ISQua, Joint Commission International, World Health Organization, Quality Council of India and other reputed organizations. It was attended by an overwhelming 850 delegates from across the globe. Eminent personalities in the patient safety space from across the globe spoke at the conference. They included Dr. Natarajan Menabde, Regional Representative (India), World Health Organization, Dr Janne Lehmann Knudsen, ISQua Board member, Denmark, Ms Ann Jacobson, Executive Director, Joint Commission International (JCI), US, Lord Nigel Crisp, Former CEO, Sun Micro Systems, California, U.S.A. The Congress also saw the launch of the Patient Safety Declaration.

A Handholding Workshop on Patient Safety was organized at Indraprastha Apollo Hospitals, New Delhi on the 12th and 13th April, 2013. It was supported by National Accreditation Board for Hospitals and Healthcare Providers (NABH), the Department of Hospital Administration at AIIMS, the INCLEN trust and BD as knowledge partners. Three to five member teams from 25 hospitals attended for the workshop. Hospital CEOs, medical heads, nursing leaders, surgeons, microbiologists, nurses and quality representatives formed part of the teams. The workshop guided the implementation process for patient safety initiatives in Infection Control, Surgical Safety, Medication Safety and Patient Falls through four workshops covering these topics.

To highlight the clinical innovations at Apollo and what was new in Medicine around the world, Apollo initiated the publication of a quarterly report titled “Clinical innovation report” in April 2013 covering New in Medicine, New in Technology and News Highlights on PATIENT SAFETY WAs HELD ON THE 6TH AND 7TH SEPTEMBER, 2013 AT HYDERABAD. THE CONFERENCE WAS HOSTED BY THE APOLLO HOSPITALS GROUP.
and Clinical Innovations from Apollo Hospitals. Significant among these was the successful separation of Pygopagus twins from Tanzania in a marathon surgery of 18 hours conducted by a team of 20 doctors from neurosurgery, plastic surgery, cardiothoracic surgery and paediatric urology. Apollo also celebrated the 15th anniversary of our Liver Transplant program with a gathering of transplant patients and their family members who were addressed by His Holiness The Dalai Lama.

Continuing the accreditation journey for the group, SPS Apollo Hospitals Ludhiana was reaccredited by JCI in 2013. Apollo Hospitals, Bilaspur, Apollo Hospitals, Bhubaneshwar, Apollo Jehangir Hospital, Pune and Apollo BGS Hospitals, Mysore became NABH accredited.

In a tertiary healthcare institution, clinical excellence shares a symbiotic relationship with academic excellence with emphasis on training and research. During the academic year 2013, 15 hospitals of the Apollo Hospitals groups offered the DNB and FNB programs in 38 specialties and subspecialties. The new post graduate and post doctoral training programs started in the Apollo Hospitals group during 2013 included DNB in Rheumatology, Paediatric Surgery, Neonatology and Emergency Medicine and FNB in Cardiac Anaesthesiology and Interventional Cardiology. The numbers of DNB / FNB seats have increased by over 30% from 205 in annual year 2012 to 263 during annual year 2013 with over 700 DNB trainees enrolled in the Apollo group of Hospitals in the annual year 2013.

The second batch of the Apollo Institute of Medical Sciences and Research joined in 2013. Apollo Hospitals on 27th August announced a tie-up with University of Rochester Medical Centre, New York, envisaging patient care and academic collaboration. As part of the tie-up, the Rochester University and Apollo Hospital’s under-graduate medical college will have faculty and student exchange programme.

To continue to motivate and recognize research orientation in our consultants, Adjunct titles of Professor and Associate Professor of AHERF were given to selected consultants across the group during the year 2013. Twenty one consultants were granted the titles. In pursuance of our policy for recognition of research papers published in journals with high impact factors, 41 papers were recognized in 2013.

Postgraduate medical education was further enhanced by starting Clinical Fellowships by AHERF in specialties were structured training programs are not available. Clinical Fellowships are offered in Stroke, Neuro-Muscular Disorders, Clinical Nephrology, Transplant Nephrology, Renal Dialysis, IVF, Fetal Medicine, Diabetes, Liver Transplantation, Hepatology, Liver Transplant Anaesthesia, Endoscopy, Bariatric Surgery, Pain Medicine and Molecular Biology.

The “Apollo Medicine” journal saw many changes in 2013. The editorial board was strengthened to include eminent International and National faculty members. The page views of “Apollo Medicine” website depicted a significant growth of 118% from Jan 2013 to Dec 2013. There was contribution of manuscripts from the U.S, China and Egypt as well. Apollo Medicine is now available on Health Advance – A Mobile application to download and read the whole journal. New Sections were added: Algorithms, Interesting Rare Case Pictures, Online CME, etc. “Apollo Medicine” was approved and included in the Directory of Open Access Journals (DOAJ).

Spearheading Apollo Hospitals research journey, Apollo Hospitals Educational and Research Foundation (AHERF) completed many ongoing projects and launched several new ones. Apollo Hospitals recently incubated and launched Sapien Biosciences within AHERF’s facility in Hyderabad. Sapien shall fulfill our vision of delivering better clinical outcomes through bench-to bedside innovation by offering personalized medicine services to Apollo Hospitals. AHERF is in the process of developing a circulating biomarkers (CBMs) based diagnostic panel for detection and screening of Glioblastomas (GBMs) directly from the blood. A pilot collaborative study with AHERF and Institute of Genomics and Integrative Biology (IGIB), a CSIR Institution is in the process of establishing a dedicated entity to bring innovation from across the world-distribution agreements, validation services and incubation/commercialization of ideas.

AHERF also signed a collaboration MoU with Nestle in early 2013 to associate in the areas of research, development and validation of disease specific nutrition projects. AHERF spearheaded and realized collaboration with Medtronic Inc. with an objective to revolutionize renal care by providing mobile dialysis at homes and community centres.

Apollo Hospitals were recognized for their work at various fora and won many awards in 2013. AHERF currently is coordinating almost 100 clinical studies across Apollo hospitals. In April 2013, AHERF organized a first-of-its kind “National Conference on Evolving roles of Ethics Committees in Clinical Research” at New Delhi. AHERF is in the process of establishing a dedicated entity to bring innovation from across the world-distribution agreements, validation services and incubation/commercialization of ideas.
APOLLO HOSPITALS WERE THE WINNERS OF 10 AWARDS IN 9 CATEGORIES AT THE PRESTIGIOUS HOSPITAL MANAGEMENT ASIA AWARDS AT BANGKOK IN 2013. THE ORGANIZERS GAVE THE APOLLO GROUP A STANDING OVATION BY CONFERRING APOLLO WITH THE "SPECIAL OUTSTANDING ACHIEVEMENT AWARD".

Apollo Hospitals were the winners of 10 awards in 9 categories at the prestigious Hospital Management Asia awards at Bangkok in 2013. The organizers gave the Apollo Group a standing ovation by conferring Apollo with the “Special Outstanding Achievement Award”.

Apollo Hospitals – “Billion Hearts Beating Foundation” won in the award in the Corporate Social Responsibility Category, Apollo Speciality Hospitals, Madurai won the award for the Cost Reduction Project – “To Control the expenses for CAG and PTCA Procedures”, Apollo Hospital Hyderabad won the award in the Human Resource Development and Service Improvement for Internal Customers Category for their “Apollo Simulation Laboratory”, “Antimicrobial Stewardship Programme” from Apollo Hospitals, Chennai won the Patient Safety Award, “Patient Satisfaction Tracking System (PSTS) - A break through Innovation in Healthcare for Voice of Customer Process” from Apollo Hospitals, Chennai won the Customer Service Project, Apollo Hospitals, Delhi’s “Pressure ulcer: zero tolerance” won in the Clinical Service Improvement Category, Apollo Gleneagles Hospitals, Kolkata’s “Project Product: Severity Index Scoring For Biomedical Equipment” and Apollo Hospitals, Chennai’s “- Phasing out mercury” won in the Bio Medical Equipment / Facilities Improvement Category and the “Passion Led Patient Care” project from Apollo Hospitals Dhaka won in the Category of Innovations in Hospital Management and Governance.

Apollo Hospitals – “Minimizing Medication Errors” in Healthcare. Apollo also emerged as the winner in the category - 'Most Popular Paediatric Hospital Chain' in the inaugural edition of 'Child Best Hospitals'. Apollo Hospitals Group won the Frost & Sullivan 5th Annual India Healthcare Excellence Award 2013 in the category of “Healthcare Service Provider Company of the Year” (With Annual Revenue greater than Rs 1000 Crores).

In the healthcare IT space, HIMSS Analytics Asia Pacific recognized three hospitals within Apollo Group for achieving Stage 6 on the Electronic Medical Record Adoption Model (EMRAM) SM - Apollo Main Hospitals, Chennai, Apollo Health City, Jubilee Hills and Apollo Hospitals Ayanambakkam, Chennai. The first HIMSS Elsevier award for Outstanding ICT Achievement was presented to Apollo Hospitals Enterprise Ltd. The award was given to Apollo Hospitals for the Patient Engagement Platform (PEP) – Apollo Prism.

In the Human Resources space, Apollo Group participated in Asian Training and Development Awards in two Categories and was announced as winner in both the categories - Best Training Initiative in Health Care and Best Customer Service Program.

The journey into 2014 has begun. As Winston Churchill had said, “Every day you may make progress. Every step may be fruitful. Yet there will stretch out before you an ever-lengthening, ever-ascending, ever-improving path. You know you will never get to the end of the journey. But this, so far from discouraging, only adds to the joy and glory of the climb.”
The Many Milestones of Excellence

Excellence is not just the destination, it is the journey itself.
The Apollo Standards of Clinical Care (TASCC)

Apollo Hospitals aims at establishing standards of clinical care that ensure that all its hospitals deliver safe and quality clinical care to all its patients, irrespective of the location and size of the hospital. The Apollo Standards of Clinical Care (TASCC) embody sets of process requirements and sets of outcome measures that underline the Apollo Hospitals approach to clinical care.

ACE @ 25, RACE, Apollo Quality Program (AQP), Apollo Incident Reporting System (AIRS), Apollo Mortality Review (AMR) and Apollo Critical Policies Plans and Procedures (ACPPP) together form TASCC. TASCC was implemented in January 2012.

ACE and RACE are clinical balanced scorecards incorporating 25 clinical quality parameters each involving complication rates, mortality rates, one year survival rates and average length of stay after major procedures with international benchmarks.

AQP is a program for the standardization of processes for clinical handovers, medication safety, surgical safety, patient identification, verbal orders, hand washing compliance and falls prevention across Apollo hospitals. Compliance is measured through a monitoring dashboard of 20 parameters.

AMR is a standardized methodology of identifying all deaths in a hospital with a potential to have resulted from an error through trigger criteria, systematically peer reviewing them through a checklist and categorizing the deaths to identify the preventable deaths using the Death Audits, The Health Round Table criteria. The checklist included factors like appropriate care setting, appropriate staff privileges, clinical practice deficiency, delay in recognition of clinical deterioration / escalation / response, hospital acquired infection, post procedure complication, medical error, error in communication, equipment deficiency, etc.

AIRS provides a mechanism of tracking of all incidences that pose a safety risk to patients.

ACPPP are 25 policies covering clinical care, nursing care, managerial processes and infrastructural requirements like restraints, consents, critical test results, disaster policy, that are implemented by all hospitals.

Each initiative is scored as follows: ACE@25 (100), RACE (100), AQP (100), AMR (50), AIRS (25), ACPPP (125), totalling 500. The monthly scores in each initiative for each location is plotted as a hexagon. The outer perfect hexagon represents the perfect scores and the inner hexagon represents the scores attained. The target is to achieve the perfect hexagon. A few examples for 2013 are given below:

TASCC scores showed a steady increase from 216 in April 2012 to 293 in December 2013 showing increasing standardization of processes and improving outcomes.
ACE @ 25, our clinical excellence scorecard saw the second update in 2013. It involved replacing three parameters with new parameters, upgrading the scoring scale for three and upgrading the benchmarks for three.

Apollo Clinical Excellence Scorecard - ACE @ 25

ACE @ 25, our clinical excellence scorecard saw the second update in 2013. It involved replacing three parameters with new parameters, upgrading the scoring scale for three and upgrading the benchmarks for three.

Group average scores for ACE @ 25 showed consistency in 2013.

ACE @ 25 is a clinical balanced scorecard incorporating 25 clinical quality parameters involving complication rates, mortality rates, one year survival rates and average length of stay after major procedures like liver and renal transplant, CABG, TKR, THR, TURP, PTCA, endoscopy, large bowel resection and MRM covering all major specialties. Also included are hospital acquired infection rates, pain satisfaction and medication errors. Parameters have been benchmarked against the published benchmark marks of the world’s best hospitals including Cleveland Clinic, Mayo Clinic, National Healthcare Safety Network, Massachusetts General Hospital, AHRQ US, Columbia University Medical Center and US Census Bureau. There are weighted scores for outcomes color coded green, orange and red. The cumulative score achievable is capped at 100.

The numerators, denominators and inclusions and exclusions are defined lucidly and methodology of data collection is standardized. Data is uploaded online every month through a unique login ID and password. Action taken reports for parameters falling in red are submitted quarterly by all hospitals and reviewed by the board. A quarterly, half yearly and annual analysis of the trends is done. The collective data for all locations can be viewed by the Group leadership at any point in time. Scores are linked to appraisal of the medical head and CEO and there is an “ACE @ 25” Champion Award for the highest scorer.

Example of an ACE @ 25 parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Benchmark 1</th>
<th>Benchmark 2</th>
<th>Benchmark 3</th>
<th>Benchmark 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABG mortality rate</td>
<td>0.60%</td>
<td>0.81-1.20</td>
<td>1.21-1.60</td>
<td>&gt;2.00</td>
</tr>
<tr>
<td></td>
<td>Cleveland Clinic</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In 2013, 33 hospitals reported ACE @ 25 data, eight under Group A (Ahmedabad, Bangalore, Chennai, Delhi, Hyderabad, Kolkata, Dhaka and Ludhiana), ten under Group B (Bilaspur, Madurai, Mysore, Ranchi, Pune, Vizag, Bhubaneshwar, Karimnagar, Secunderabad and Hyderabad) and 15 under Group C (Aragonda, AFMH, ASH, Tondiarpet, Sowcarpet, Bhilai, Kakinada, NMDC Bacheli, Noida, Ranipet, Apollo Children’s Hospital, Ambavadi, DRDO, Karur and Karaikudi).

The data is validated by the Apollo Clinical Audit Team (ACAT), a 20 member team trained in a rigorous audit methodology outlined in the ACE @ 25 Audit Guide. The team audits the data at all locations every six months for methodology of data collection and accuracy of data reported.

The improvement journey continued with many hospitals showing improvement in parameters over the year 2013.

Few examples:
ACE @ 25 awards

ACE @ 25 clinical excellence scorecard data has been reported for four years now. The Group recognized the outstanding performance of a hospital in each of Group A, B and C for the year 2013 as in 2010, 2011 and 2012. The median ACE @ 25 score for each hospital was computed and their ACAT score was added to it. The hospital scoring the maximum was awarded the ACE @ 25 champion award. Apollo Hospitals, Hyderabad from Group A hospitals, Apollo Hospitals, Secunderabad from Group B hospitals and Apollo Hospitals, Bhilai and Apollo Hospitals, Noida from Group C hospitals were declared ACE @ 25 champions and were awarded the trophies along with a cash prize of 2.5 lakhs, 1.5 lakhs and 1 lakh each respectively.
Apollo Quality Program

The Apollo Quality Program was started in December 2010 to implement patient safety practices in all our Apollo Hospitals irrespective of accreditation status. It covers four broad areas: Safety during clinical handovers, Surgical safety, Medication safety and the Six International Patient Safety Goals of JCI. After four months of implementing the processes, data collection on the monitoring dashboard was started in April 2011 with monthly feedback to the locations.

In July 2012, AQP was strengthened with an AQP observation template that guided the observation methodology for each parameter.

In October 2012, an AQP audit tool was used for the ACAT audit and the score for AQP compliance was enhanced.

An analysis of the parameters in 2013 has shown an increase in compliance levels for various parameters. The group average AQP score has also increased.

AQP was presented as a poster at the ISQua conference in 2013.

Below are a few examples of improvement at different Apollo locations:
In Apollo’s pursuit of excellence, our latest quality initiative ACEP was launched in June 2013. It is a standardized tool to share the best practices for clinical excellence and quality improvement implemented by Apollo hospitals with other healthcare providers.

The initiative is pro-bono and is intended to contribute to enhancement of quality of healthcare delivered across India.

ACEP is a standardized tool which can be used by any hospital across the country to drive quality improvement, improvement in patient safety and better clinical outcomes. ACEP comprises of important indicator sets for monitoring quality and clinical excellence along with policies which would deal with the core processes in patient care.

Methodology
ACEP comprises of three levels of expertise and runs in phases as the hospitals become more competent to take on higher expectations and stringent benchmarks. A three month trial run is conducted where each hospital shares their data with their assigned experts. The results are then collated and analysed for consistency and accuracy for three months before ACEP is fully implemented in the hospital.

Quarterly data is be collected, collated and analysed by a central team for understanding the trends achieved for each parameter implemented by the hospital. In case there is a downwards trend or the indicator features in red, the hospital is requested to draw an improvement plan. Implementation of expected polices is scrutinized. Where necessary, best practices and policies followed by Apollo hospitals are shared to improve the scores.

Annual data is then analyzed and presented to the hospital to show consistency or improvements in their outcomes. The data of each hospital is kept absolutely confidential to maintain the integrity of our relationship.

After a period of three months, an audit is conducted by us for understanding the trends achieved for each parameter implemented by the hospital.

Hospital Inclusion Criteria
1. Bed strength 25 beds or more
2. Laboratory
3. Radiology
4. ICU with ventilator
5. Operation Theatre
6. CSSD
7. Duty Medical Officer (MBBS) at night
8. Registered nurses
9. Emergency department

The Implementation
The ACE Platform is rolled out in 3 phases in the hospitals. Each phase comprises of implementation of IPSGs, hospital policies and hospital indicators. At Level 1, eight systems and processes are established in the adopted organization. Once the proposed structures are operational, then four more initiatives are taken up in Level 2 and four more over and
above previous levels in Level 3. When the systems and processes are in place then these parameters are scored on a pre-defined scale. The total score obtained by the adopted organisation after Level 1 is 100 points. After attaining Level 2 the total score is 150 points (100 points for eight parameters established in Level 1 + 50 points for four more parameters incorporated in Level 2). Once the hospital has successfully implemented Level 3, then it is scored on 200 points.

### Phase I: Level 1
The Level 1 comprises of:

**Three IPSGs**
- Correct patient identification
- Preventing healthcare associated infections
- Implementing a falls risk assessment and prevention program

**Three hospital indicators**
- Catheter related Urinary Tract Infection (CR-UTI)
- Prescription Medication Errors
- Pressure Ulcers

**Two hospital policies**
- Policy on consent
- Policies for patient education for surgical procedures

### Phase II: Level 2
Once the adopted organisation has fully implemented and sustained the components of Level 1, it seamlessly moves on to the next level i.e. Level 2, wherein, new systems are established in addition to the continuing sustenance of components of the previous level.

The Level 2 comprises of:

**One IPSG**
- Improving the safety of high alert medication

**Two hospital indicators**
- Catheter Related Blood Stream Infections (CR-BSI)
- Surgical site infections

**One hospital policy**
- Policies for reporting critical results for diagnostic tests

### Phase III: Level 3
Once the adopted organisation has fully implemented and sustained the components of Level 2, then it moves on to the Level 3, wherein new expectations are established in addition to the sustenance of components of previous two levels.

**Two IPSGs**
- Improving communication through the use of read back for verbal orders
- Implementing the process for preventing wrong patient, wrong side, wrong procedure surgery

**One hospital indicator**
- Ventilator associated Pneumonia

**One hospital policy**
- Policy on daily check of defibrillators and oxygen cylinders

Quality assurance in healthcare in India is a collective responsibility of all healthcare providers. While each hospital does its own best, the sharing of best practices for quality improvement across the spectrum shall be the driving spirit in achieving safe and quality patient care. ACE Platform is a stepping stone in this direction. The plan is to embark this important quality initiative in as many hospitals as we can towards raising the bar on quality healthcare in India. This endeavour shall allow us to serve our target community in a more objective and evidence based manner. 15 hospitals have adopted ACEP.

### Apollo Innovation and Quality Awards 2013
Nominations for Apollo Innovation and Quality Awards 2013 were invited from all locations in six categories:
- Excellence in Operations
- Excellence in Community Service
- Excellence in Clinical Services
- Excellence in Environmental Conservation
- Excellence in HR Practices
- Excellence in Financial Management

Nominations were open from 15th October to 15th November 2013. 183 nominations were received from 19 locations.
Number of nominations location wise was as below:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Location</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hyderabad</td>
<td>37</td>
</tr>
<tr>
<td>2</td>
<td>Chennai</td>
<td>33</td>
</tr>
<tr>
<td>3</td>
<td>Delhi</td>
<td>22</td>
</tr>
<tr>
<td>4</td>
<td>Bangalore</td>
<td>13</td>
</tr>
<tr>
<td>5</td>
<td>ASH, Teynampet</td>
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</tr>
<tr>
<td>6</td>
<td>ACH</td>
<td>12</td>
</tr>
<tr>
<td>7</td>
<td>Madurai</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>ASH Vanagaram</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>Kolkata</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>Bhubaneswar</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>Bilaspur</td>
<td>4</td>
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<tr>
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<td>Ludhiana</td>
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<td>13</td>
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<td>14</td>
<td>Karur</td>
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<td>15</td>
<td>Mysore</td>
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<tr>
<td>16</td>
<td>Kakinada</td>
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<tr>
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<td>Ahmedabad</td>
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</tr>
<tr>
<td>19</td>
<td>Hyderguda</td>
<td>1</td>
</tr>
</tbody>
</table>

The number of nominations in each category was as follows:

- Excellence in operations: 70 nominations
- Excellence in clinical services: 48 nominations
- Excellence in financial practices: 25 nominations
- Excellence in HR practices: 16 nominations
- Excellence in community service: 14 nominations
- Excellence in environmental conservation: 10 nominations

The nominations were judged by our esteemed panel of jury members:

- **Excellence in Clinical Services**
  - Dr. Ranjit Roy Chaudhury
  - Dr. Sita Naik

- **Excellence in Operations**
  - Mr. Prem Kumar
  - Mr. Seemant Jauhri

- **Excellence in Community Service**
  - Mr. Sudhir Digigkar
  - Mr. Vikram Thaplo

- **Excellence in HR Practices**
  - Mr. Jacob Jacob
  - Mr. K Prabhakar

- **Excellence in Environmental Conservation**
  - Mr. Ravichandran
  - Mr. C Natrajan

The top five projects in each category are:

- **Excellence in clinical services**:
  - **Bangalore**: Minimally Invasive Coronary Artery Surgery making recovery from heart surgery faster and painless
  - **Delhi**: Safety Smart Isolation Rooms
  - **Delhi**: Apollo Accreditation Program (AAP): A web based Joint Commission International Standards compliance management tool
  - **Delhi**: Pressure Ulcer - Zero tolerance
  - **Kolkata**: Project CODE GREEN

Award winner: Minimally Invasive Coronary Artery Surgery Making recovery from heart surgery faster and painless, Bangalore

- **Excellence in operations**:
  - **Chennai**: Voice of customer process to capture patient engagement
  - **Chennai**: Moving the axis of care: redesigning space for international standards multidisciplinary critical care unit to deliver patient-centric and efficient services
  - **Chennai**: Decentralization of report dispatch
  - **ASH**: Medication error reduction program
  - **Chennai**: Digitalization of X Ray films: an EMR initiative

Award winner: Voice of customer process to capture patient engagement, Chennai

- **Excellence in HR practices**:
  - **Delhi**: People connect program
  - **Bangalore**: Creating a consultant pipeline at Apollo Hospitals, Bangalore
  - **Chennai**: SET [service excellence training modules]
  - **Hyderabad**: Nurse recognition program
  - **Delhi**: Demystifying the Da Vinci Code of Performance Management

Award winner: People connect program, Delhi
Excellence in community services:

- **Kolkata**: Apollo Youwecan Cancer Screening Initiative – The Largest Cancer Screening Drive Of The World
- **Hyderabad**: To increase the follow-ups of stroke patients and conduct stroke clubs regularly
- **Karur**: Anbudan Apollo
- **Hyderabad**: Increasing cancer awareness by follow ups through clubs
- **AS**: Defeat Breast Cancer; Join the fight – One step at a time
- **Bilaspur**: Awareness against female foeticide

Award winner: Apollo Youwecan Cancer Screening Initiative – The Largest Cancer Screening Drive Of The World, Kolkata

Excellence in environmental conservation:

- **Kolkata**: A Commitment to Go Green
- **Bhubaneswar**: A Step Forward – Efficient Energy Conservation @AHB 12 -13
- **Delhi**: Initiatives for Environment- Energy Conservation and Waste Water Reuse
- **Hyderabad**: Reduction of Water and Electricity Consumption
- **Chennai**: Plastic waste management

Award winner: A Commitment to Go Green, Kolkata

Excellence in financial practices:

- **Delhi**: Act Smart: Health pockets Healthy Heart
- **Chennai**: Re-use of Single use devices – Boon or Bane
- **Chennai**: Pattern analysis: reflection of changing customer needs (service excellence leading to financial excellence)
- **Bangalore**: Comparative Study Between New Packing System And Conventional Cloth Packing
- **Hyderabad**: Double the assurance campaign

Award winner: Act Smart: Health pockets Healthy Heart, Delhi

**Share your story**

All Apollo hospitals in their journey towards excellence have made innovations to overcome hurdles they face in various processes. As a group, it is important that we share these best practices and innovations so that other hospitals can learn from what another has achieved. The “Share your story” initiative was conceptualised with this view of sharing of best practices amongst Apollo Group hospitals on one chosen topic every quarter. The initiative started in October 2012.
The topics for the quarters in 2013 were:

**Jan - Mar 2013:**
Patient falls  
The winner: Apollo Hospitals, Delhi and Bhubaneswar

**April - June 2013:**
ALOS post renal transplant  
The winner: Apollo Hospitals, Bangalore

**July - September 2013:**
Pressure Ulcers  
The winner: Apollo Hospitals, Delhi

**Oct - Dec 2013:**
 Needle Stick injuries  
The winner: Apollo Hospitals, Dhaka

Awards were given to the best story in each quarter on Founder’s day.

**The Best Apollo Clinic Awards**
Apollo Clinic, Sarjapur, Karnataka Region and Chandanagar Clinic, Andhra Region, received the best Apollo Clinic Awards for 2013.

**Leadership Awards**
The Outstanding Leader Award from Apollo Hospitals for 2013 was given to Dr. Anupam Sibal, Group Medical Director, Apollo Hospitals and Dr. Udhaya Balasubramanian, Group Director, Preventive Medicine.

**Young Leadership Awards**
The Young Leader Award from Apollo Hospitals was given to Mr. V. Jagadesh and Mr. A. Samuel.
**5S Awards**
Category A: Apollo Glenegales Hospitals - Kolkata
Category B: Apollo Speciality Hospitals - Chennai

**Best Patient Engagement Award and Employee Wellness Award**
Apollo Main Hospital, Chennai received the award for the highest Patient engagement scores for In Patient and Out Patient (as per Gallup external survey) and Apollo 5s Awards

**Category A:** Apollo Glenegales hospitals - Kolkata
**Category B:** Apollo Speciality hospitals - Chennai

**Special Achievement Awards**
Group Nursing Director, Capt. Usha Banerjee and the Nursing Team for standardization of nursing protocols across the Group.

Dr Harinder Singh Sidhu and Africa Team for their excellent results in engagement with Africa.

Mr. Srinivasulu Reddy and Team for undertaking new projects in the Hyderabad region.

**Glenegales hospitals, Kolkata received the Employee Wellness Award for the best adherence to all wellness initiatives from April 2013 - Jan 2014.**

**Apollo International Forum on Infection Control, January 5-6, 2013**

The core of the Apollo story is the Group’s unique prowess in clinical excellence, revolutionary expertise and the warm culture of Tender Loving Care. This defines the philosophy that makes Apollo Hospitals a trusted healthcare provider. It is this passion that led to the 1st Apollo International Forum on Infection Control (AIFIC) on January 5-6, 2013.

Infection Control being a rapidly evolving field within the Health Care sector, this forum brought together some of the best renowned international and regional professionals in this field. The forum offered a unique platform to share the latest advances in infection control practices and strategies. Series of scientific sessions were organized which focused on best practices, existing concerns, practical implementation tools and a simple goal to make the patient experience safer and better, it is this passion that led to the 1st Apollo International Forum on Infection Control (AIFIC) on January 5-6, 2013.
latest advances in the field of Infection Control and Prevention while promoting reflective discussions among speakers and delegates from various disciplines.

Through AIFIC we witnessed huge enthusiasm and participation from not only speakers but also delegates and sponsors. The event saw more than 20 speakers, above 600 delegates and support from sponsors like J & J, 3M, BD, Raman & Weill, Johnson Diversey, Lysoform and many others. The feedback and appreciation letters from speakers, delegates and sponsors showed that our efforts to achieve the aim of spreading the message of prevention and control of infection were successful.

Some of the Conference highlights were:

- Information technology in Infection Control- Gearing up for 2020
- Employees health in Indian hospitals
- Designing your facility for Infection Control
- Infection Control in limited resources: the Eternal Struggle
- SUD: Safe or Sorry?
- Nightmare of outbreak investigations
- Tackling MDROs
- Perspectives on Antimicrobial Stewardship
- Natural Ventilation: Rethinking respiratory
- UTI, VAP, BSI, SSI Bundles
- Disinfecting scopes the right way
- Surveillance of HAI: Coming Age

Dr. Prathap C. Reddy, Chairman, Apollo Hospitals Group said, “Infection Control is one of the top most priorities in hospitals to help improve patient outcomes and reduce length of stay. With advent of newer antibiotics, there has been a progressive rise in the incidence of antibiotic resistance. While it is a worldwide phenomenon, the nature of antibiotic resistance varies widely from country to country. This is an undesirable and inevitable trend, it is a challenge.”

Diverse as we may be in our locations, the zeal to excel is the common thread that binds all our hospitals. We continuously strive towards improving the processes to achieve the best outcomes for our patients.

The 3rd International Congress on Patient Safety

The 3rd International Congress on Patient Safety was held on the 6th and 7th September, 2013 at Hyderabad. The conference was hosted by the Apollo Hospitals Group and supported by ISQua, Joint Commission International, World Health Organization, Quality Council of India and other reputed organizations.

It was attended by an overwhelming 850 delegates from across the globe. The multidisciplinary sessions saw participation from healthcare professionals across the spectrum ranging from doctors, nurses, paramedics, policy makers, CEO’s, administrators, patient safety experts, quality managers and members of professional societies.

Eminent personalities in the patient safety space from across the globe spoke at the conference. They included Dr Nata Menabde, Regional Representative (India), World health Organization, Dr Janne Lehmann Knudsen, ISQUA Board member, Denmark, Ms Ann Jacobson, Executive Director, Joint Commission International, US, Lord Nigel Crisp, Former CEO, NHS, UK and Vinod Khosla, Co-Founder, Sun Micro Systems, California, U.S.A.

A well-knit program covered presentations, panel discussions, poster presentations, patient safety
awards and display of the most widely accepted patient safety tools. Best practices and posters covering all the aspects of patient care were also presented at this platform.

To recognize the best examples of the work done on patient safety and to disseminate them more widely within the healthcare community so that they could be replicated elsewhere, Dr Prathap C Reddy’s Safe Care Awards were also given away by Mr Kiran Kumar Reddy, Chief Minister Andhra Pradesh.

The Patient Safety Declaration

The third International Congress on Patient Safety held in Hyderabad on the 6th and 7th September, 2013 saw the launch of the Patient Safety Declaration.

The Declaration was signed by all participating delegates and speakers on behalf of their institutions covering 156 healthcare organizations.

The declaration is as follows:
1. Every hospital shall have a person designated for patient safety.
2. Every hospital shall have a patient safety committee with representatives from medical services, nursing, engineering, housekeeping, pharmacy and infection control that shall meet every quarter.
3. Every hospital shall train all its employees on patient safety issues.
4. Every hospital shall educate its patients on patient safety issues.
5. Every hospital shall have a policy and implemented system on reporting of adverse events within the organization.
6. Every hospital shall collect rates for the following patient safety indices:
   - Hospital acquired infections
   - Patient falls
   - Pressure ulcers
   - Needle stick injuries
   - Medication errors
7. All hospitals shall join hands to form a National Patient Safety Network for sharing of best practices in patient safety. Every hospital shall endeavor to prevent never events listed by the National Quality Forum.
Handholding Workshop on Patient Safety

Patient safety is now recognized as a serious global public health issue with estimates showing that as many as one in 10 patients in developed countries is harmed while receiving hospital care, in developing countries, the probability is higher.

Apollo Hospitals, in their quest of excellence, have made numerous initiatives in patient safety. To develop a culture of “something to teach, something to learn”, Apollo Hospitals have embarked on an initiative to share its best practices in patient safety with other hospitals who wish to start/improve patient safety initiatives in their hospitals.

With this end, the Handholding Workshop on Patient Safety was organized at Indraprastha Apollo Hospitals, New Delhi on 12th and 13th April, 2013. It was supported by NABH, the Department of Hospital Administration at AIIMS, the INCLEN trust and BD as knowledge partners.

Three to five member teams from 25 hospitals attended the workshop. Hospital CEOs, medical heads, nursing leaders, surgeons, microbiologists, nurses and quality representatives formed part of the teams.

The workshop guided the implementation process through four workshops:

- Infection Control
- Surgical Safety
- Medication Safety
- Patient Falls

The workshops were conducted by the quality heads of various Apollo Hospitals. The highlight of...
the workshop were case studies, group activities, discussions and demonstrations through videos. The delegates got an opportunity to witness the processes in actual implementation through visits to the wards and ICUs.

The workshop received excellent feedback from the delegates with 90% of the delegates rating it as Excellent / Very good.

A few glimpses:

Building a brighter tomorrow; mentoring and knowledge sharing initiative in clinical nutrition practice

Department of Dietetics, Apollo Hospitals Group

Knowledge Sharing is an activity through which knowledge (information, skills or expertise) is exchanged among professionals, communities, organizations etc. Organizations have recognized that knowledge constitutes a valuable intangible asset for creating and sustaining competitive advantages. Knowledge sharing activities are generally supported by knowledge management system which enables healthcare organizations to achieve many strategic goals such as providing opportunity for improving clinical services, operational efficiency, and achieve growth through innovation and implementation. Technological developments, globalization and competition significantly accelerate the process of creating new knowledge to sustain leadership.

Sharing Clinical Nutrition Knowledge vertical is a vital action point in our road map to success. The philosophy of the Department of Dietetics in our Group is to establish and encourage good nutritional practices and standards as an integral part of the health care provided. Being patient-centric is not a goal, it is the core of our existence, in providing the highest quality nutrition care and dietetic services, to advancing practice of clinical nutrition including developing specialist dietetic teams within the department, using evidence-based practice to develop effective therapies and new treatments, and to educate future Dieticians and other healthcare providers.

We believe in combining Evidence-based care with our signature Tender Loving Care. Our Clinical Nutrition team translated this into their practice and works closely with Clinical teams in developing patient specific nutrition. We always strive to update and upgrade in the field of clinical nutrition which has helped us adopt an approach for quality improvement to benchmark our nutrition practices.

The Clinical Nutrition Update is an annual event, which addresses aspects of patient care at hospitals and also that of hospital-based nutritional intervention. There is ample evidence that a team approach to nutritional intervention in the hospitalized patient has a beneficial
effect on patient outcome. Hence, in the Scientific Programme of the Updates, Doctors and Dieticians together as a team address medical and nutritional requirements of different clinical conditions. The event faculty includes distinguished National and International Physicians, Surgeons, Paediatricians, Intensivists, and Clinical Dieticians, who are well-known nationally or internationally for their contribution to Clinical Nutrition.

In an advancing medical landscape, dieticians play a greater role than ever before and therefore it is critical that they continuously stay abreast of global trends and development in the field. The main objective of the updates was to have an impact on the knowledge base of the practicing dieticians to meet the ever-increasing and changing demands on their expertise which is an important factor influencing their professional growth.

Some of the interesting topics so far covered during these updates include Nutrition planning during Solid organ transplants, Inborn errors of metabolism, Critically ill patients, kidney diseases, Chemo and radio therapy, Bariatric procedures.

The first CNU was initiated in the year 2009, held at Chennai only for the Apollo Group dieticians and subsequently conducted in different metros for the benefit of the dieticians at various regions.

CNU 2009 – Chennai
CNU 2010 – Chennai
International CNU 2011 – New Delhi.
International CNU 2012 – Kolkata.
International CNU 2013 – Hyderabad
International CNU 2014 – Planned to be held at Bangalore.

These events are a platform for the Apollo Group Dieticians to gather and discuss the points to be implemented in all the hospitals towards standardization processes and roll out the group initiatives.

Hyderabad Nutrition Declaration:
Malnutrition is a major contributor to an increased morbidity and mortality, decreased function and quality of life, increased frequency and length of hospital stay and higher healthcare cost. Hence, Nutrition screening accomplished within 24 hours of admission and nutrition assessment by a dietician helps to find out the degree of malnutrition and decide on the nutrition care plan. In view of the above, during the 5th Apollo International Clinical nutrition update at Hyderabad, there was a “Hyderabad Nutrition Declaration” made with the following points. It was acknowledged by all participants.

- Every Hospital should have a Dietitian
- Every In-patient of the hospital should have a nutrition assessment
- Dietician should be part of multidisciplinary team.

Reference Books released during the Clinical Nutrition Updates:
The Department of Dietetics has been releasing valuable reference books and Dietitian’s pocket guides every year, during the Clinical Nutrition Updates.

2009- Apollo Clinical Nutrition Manual
2010- Apollo Pediatric Clinical Nutrition Manual
2011- Best of Basics in Clinical Nutrition – Dietitians Pocket Book
2012 – Dietetics Pocket guide to Pediatric Clinical Nutrition
2013 – Beyond the Basics: Transplant Nutrition, Dietitian’s Pocket Guide

These books are practical and comprehensive for use by all the practicing Clinical Dieticians. Department of Dietetics of Apollo Hospitals will continue the mission of knowledge sharing in clinical nutrition.

New in Medicine
“New in Medicine” is compiled under four heads after studying leading medical journals, major medical news sites and numerous web resources:

A. Drugs
B. Clinical Research
C. Devices
D. Treatment guidelines
New in Medicine is published monthly to be sent to all Apollo consultants. XXVI issues have been published till December 2013.

The report is also now published as a quarterly report to be sent to all community physicians and Apollo Clinic doctors. It is also sent to Apollo Munich. New in Medicine is now part of the Apollo Knowledge Repository CD being sent to all General Physicians.

Clinical Innovation Report

Medicine is evolving at a tremendous pace. It is imperative that all healthcare providers including clinicians and healthcare administrators keep themselves up to date with the latest research in treatment techniques, new drugs and technology to be able to provide the best clinical care to the patients. Clinical innovations are rapidly changing the way clinical care is delivered around the world today.

In April 2013, Apollo initiated the publication of a quarterly report titled “Clinical innovation report” which covered the following:

Section 1: New in Medicine
A. Drugs
B. Clinical Research
C. Devices
D. Treatment guidelines

Section 2: New in Technology

Section 3: News Highlights and Clinical Innovations from Apollo Hospitals

These include:
- A new procedure, done for the first time in India / the region and which is considered by a reasonable body of medical opinion to be significantly different from existing clinical practice
- A rare procedure e.g. a TKR in a 94 year old patient or liver transplant in a 4 kg baby
- Variation in an operating procedure or intervention or diagnostic procedure
- A new medical treatment
- Large volumes of a complex / rare procedure

Few clinical innovations from Apollo Hospitals during 2013 are given below:

a) Apollo Hospitals, Chennai

Many robotic cardiac and pediatric urologic surgeries were performed. Robotic donor nephrectomies were also performed.

Maximum cadaveric liver transplant in India and 3 cadaver liver and 1 live related (total 4) transplants were done within a span of 24 hrs.

"I SEE U" facility for virtual intensive visit by family and consultant from anywhere in the world was introduced.

BRTO – Retrograde balloon occlusion test for varices was performed by interventional radiologists.

Vascular closure device for puncture site with PERCLOSE was done by interventional radiologists.

Cutting balloon angioplasty for carotid in-stent stenosis was performed by interventional radiologists.

 Intrarterial chemotherapy for retinoblastoma was performed in liaison with Sankranthralaya Hospital.

Joint replacement of left knee and right hip in a patient with ochronotic arthritis was performed, a rare case of combined surgery.

Successful angioplasty was performed on a man, aged 29, with a 100 per cent blocked artery, and another, aged 50, with three blocks, at Apollo Hospitals, Ayanambakkam.

Apollo Speciality Hospital became the first to help with safe collection of stem cells from a volunteer donor from DATRI. The DATRI donor drive kick started at Apollo Speciality Hospital for donors who wish to register. Anybody in the age group of 18 -50, who is medically fit, can volunteer to register himself / herself by donating a sample of his / her cheek cells, which is then screened and registered. When a patient in need of transplant approaches, the match donor is called to donate stem cells which are usually done as a peripheral blood donation. Apollo Speciality Hospital, Chennai is one of the few centers in India with facilities to search for a potential unrelated donor and offer transplantation. Also, in fact, the hospital has been instrumental in performing 50 such procedures over the past few years thus offering a unique opportunity for patients to get cured.

In what can be considered a historical case attempted by an Indian Private Hospital, Apollo Specialty Hospitals in Vanagaram declared the successful separation of Pygopagus twins from Tanzania-Ericana&Euclid.

A marathon surgery of 18 hours conducted by a chosen team of 20 doctors from the specialties of neurosurgery, plastic surgery, paediatric surgery and paediatric urology was led by Dr.VenkataSripathi, Senior Consultant Paediatric Urologist and Dr.Roshingopinathan, Senior Consultant Plastic Surgeon, Apollo Children’s Hospitals. The Surgery, which began at 7:00 AM on December 16, 2013 concluded with the successful separation of the twin nine month old boys at 1:00 AM on December 17, 2013.

b) Apollo Hospitals, Bangalore

First Y shaped stent was put for tracheoesophageal fistula in the region.

Four autologous chondrocyte implantations were done, a rare procedure.

Other rare procedures performed were Spinal angioplasty excision and Tibial tuberosity shift with MPSL reconstruction.

Variation in an operating procedure or intervention or diagnostic procedure was seen in Left coronary cusp VT ablation and percutaneous renal denervation for resistant HTN in post transplant patient of the native renal artery.
A new medical treatment was performed in the form of Coronary perforation treated with covered stent - hand made in cath lab.

Apollo Hospitals, Bangalore has the distinction of performing largest series of airway stents in the country.

Apollo Bangalore treated a patient with difficulty in walking due to a hip problem, through the Mini incision hip replacement. This innovative approach uses a cementless or cemented implant that grows into the bone.

A 97 year old female with Kyphosis and obstructive lung disease was successfully operated for Empyema Gall Bladder and Acute Calculus Cholecystitis by Laparoscopic Cholecystectomy.

Apollo Specialty Hospital at Jayanagar, Bengaluru performed a complicated rare complete elbow replacement surgery. The patient, a native of Udupi district in Karnataka, had swelling in multiple joints and severe anaemia. Her haemoglobin levels had dropped to five. She also had almost no movement in her left elbow joint, which was locked at ninety degrees and was irreparable through medication. She underwent treatment for rheumatic arthritis which reduced by over 80 per cent. Once the rheumatic arthritis had stabilized, the consulting team decided to operate on the joint and replace it.

c) Indraprastha Apollo Hospitals, Delhi

A 90-year old woman fully recovered from a stroke after she was treated with Thrombolysis at Apollo Delhi. She had suffered a brain stroke due to which she had suffered complete paralysis of left arm and left leg. She also could not turn her eyes to the left. She was rushed to hospital within two hours of the stroke, where doctors administered her with Intravenous Thrombolysis to dissolve the blood clot in the brain.

Indraprastha Apollo Hospitals successfully treated a 64 years old woman, who was suffering from three kinds of cancer – Uterus, Breast and Oesophagus.

A 68 Year old woman underwent Total Knee Replacement for both the knees using patient specific instrumentation at Indraprastha Apollo hospitals.

Bilateral total hip replacement surgery was done on a 29 year old Nigerian lady suffering from sickle cell disease at Indraprastha Apollo Hospitals.

A 110 year old Kashmiri patient successfully underwent surgery for stomach cancer.

A 16 year old Jehovah follower suffering from scoliosis underwent a 7 hour surgery without blood transfusion at Apollo Hospital New Delhi; his faith prohibited him from accepting the blood from anyone. The blood loss was minimized, even the blood loss that occurred was put in a special chamber called cell saver. Later the same blood cells were put in his system.

Successful hip replacement at the age of 94 was performed at Indraprastha Apollo Hospitals. The patient had a hip fracture and had been bedridden for two months. The patient recovered successfully and has started walking again.

Doctors at the Indraprastha Apollo Hospital successfully treated the eleventh member of a Pakistani family for an orthopaedic problem.

The Apollo Hospitals, New Delhi was the medical partner of JPSI, organizer of India’s fastest racing event, the 2013 Indian Grand Prix.

Dr. Priyadarshini Pal Singh was nominated as the 1st Indian Chief Medical Officer for the event.

The Apollo Hospitals Group marked the 15th anniversary of its Liver Transplant program with a gathering of transplant patients and their family members at the hospital. The event was graced by the presence of His Holiness, The Dalai Lama, who spoke on the wisdom of compassion to patients and staff of the hospital.
d) Apollo Hospitals, Ahmedabad
Apollo Hospitals, Ahmedabad in partnership with the 6th battalion of the National Disaster Response Force (NDRF) held an external disaster mega mock drill near the Narmada Main canal. The drill was in the spirit of preparedness at the eventuality of a natural or man-made contingency or disaster. Officials from Gujarat State Disaster Management Authority were present at the drill. A heavy – motor vehicle accident was deliberated near the Narmada main canal and 25-30 victims, with varying degree of injuries including death were brought to Apollo Hospitals where they were triaged, treated or disposed. The employees of Apollo Hospitals were trained and briefed about their roles and responsibilities and some of them played the role of accident victims themselves.

e) Apollo Gleneagles Hospitals, Kolkata
Apollo Gleneagles Hospitals announced a significant extension of the Company’s central laboratory capabilities with the opening of a state-of-the-art Nucleic acid Amplification Testing (NAT) laboratory. The addition of this laboratory testing service enables Apollo to provide in-region, near real-time NAT testing required by pharmaceutical and biotechnology companies to ensure the safest donor blood screening to reduce the risk of HIV, HCV, and HBV transmission through blood.

Apollo Gleneagles Hospital, Kolkata conducted the first ever Reverse Shoulder Prosthesis Replacement in East India. The surgery was conducted on an elderly patient who suffered from multiple complications. The operation was successful and helped to restore pain-free movement of the shoulder and limbs.

Apollo Gleneagles Hospitals performed a successful critical neurosurgery on a child patient suffering from a critical cyst similar to a second head. The eight-month-old child was born with a rare and unheard condition of Encephalomaligenecle. The infant who was far from leading a normal life like children of his age has showed signs of speedy recovery post the surgery and got back to his regular activities. This surgery was the first of its kind in the entire country.

Apollo Gleneagles Hospitals gave a new lease of life to a 55-year-old patient infected with Leiomyosarcoma. They treated the patient through a new type of surgery, a first of its kind in Eastern India to cure a cancerous tumour.

f) Apollo Health City, Hyderabad
Apollo Health City, Hyderabad announced the successful completion of its 700th Cochlear Implant. This marks a new milestone in aiding of hearing impaired sections of society and have received support from SAHI (Society for the Hearing Impaired) or utilized the State Government Health Scheme of Arogyasree.

g) Apollo Hospitals, Bhubaneswar
97-year-old patient underwent laparoscopic cholecystectomy for Emyma and Gangrenous cholecystitis at Apollo Bhubaneswar.

h) Apollo Hospitals, Dhaka
Coil embolization of left Lingual artery of a young patient having Haemangioma who underwent Haemangioma removal was done.

Thrombus in IVC extending Bilateral Femoral Veins to the Right Atrium was successfully removed.

Successfully performed a Redo Double Valve replacement for the first time in Bangladesh.


Successfully done an Aortic root replacement (Bentall Procedure) in a young male patient with Marfan syndrome. 10.5 cm ascending aortic aneurysm involving the root causing severe aortic regurgitation was repaired using a valved conduit with re-implantation of the coronary arteries.

Performed 7th successful Minimal Invasive A50 Closure.

i) Apollo BGS Hospitals, Mysore
Rare orthopaedic procedures performed were minimal invasive spine stabilisation and fusion surgery and correction of spinal deformity with a 100 degrees curve in a 24 year old patient using the technique called direct vertebral column rotation.

Rare CTVS procedures were closure of bilateral coronary pulmonary artery fistula and aortic valve replacement.

New chemotherapy agent aflibercept was introduced. Ziv-aflibercept (ZALTRAP), in combination with 5-fluorouracil, leucovorin, irinotecan- (FOLFIRI), is indicated for patients with metastatic colorectal cancer (mCRC) that is resistant to or has progressed following an oxaliplatin-containing regimen.

Non-operative management of grade IV liver injury was done by interventional embolization.

First reported case of surgery for recurrent pancreatic carcinoma with portal vein reconstruction done.

A young man, who is a forest guard at Nagarahole, was brought with severely mangled face due to wild bear attack. His face was so severely injured that it was beyond recognition. He had added head injury also. Since patient was facing difficulty in breathing, he was immediately put on ventilator. Next day morning he was taken up for anterior cranial fossa repair and entire face reconstruction. Since he had lost right eye in bear attack, nothing could had done for that. The surgery took nearly 15 hours to reconstruct his face. His face was reconstructed by microsurgical technique. Bony reconstruction was done and soft tissue repair was done by transferring flesh from his thighs. Since he developed salivary leak, unilateral parotidectomy was also done. Patient tolerated the surgery very well and now he is back to his work.
Traditionally the procedure is done by cutting the breast bone or sternum located in the front of the chest akin to a surgically created fracture. Like most fractures the bone takes as long as 3 months to unite. The goal was to redo the same operation with equally good outcomes but without cutting the bone allowing for a rapid recovery, shortened hospital stay, faster wound healing and drastically reduced infection.

Conceptualization and Implementation:
The new procedure now referred to as MICAS stands for minimally invasive coronary artery surgery, was conceptualized based on a technique reported by Dr McGinn from Staten Island, New York, USA. We had neither seen nor heard of anyone doing this procedure in India. We were aware that this technique was easy to implement in single vessel disease affecting the uppermost vessel that supplied the heart. However in current practice most patients requiring surgical revascularization or CABG require 2 or more vessels to be revascularized.

Traditionally in a CABG the sternum or breast bone is cut open to have easy access to the heart and its blood supply. However the impact of this disrupts life in all its aspects and often leaves the patient scarred both physically and mentally. If only we could do a less invasive procedure eliminating cutting any bone but with equally good outcomes as the traditional technique then this would help innumerable patients undergoing coronary bypass.

The new approach was through the intercostal or rib space on the left side about 3 finger breadths below the left nipple. The opening was a mere 2 inches and involved no cutting of bone.

The challenges were several. First, the internal mammary artery required harvesting in complete through a very small opening, which required mastering the use of special instruments. Second, accessing the aorta for proximal vein graft anastamosis required a special clamp that was nonintrusive but did the job well. Instruments available in other countries were sourced over a period of one year while the entire technique of performing the operation evolved and fell into place. Our initial cases were well selected in terms of body habitus, extent of disease and the ease with which target vessels could be located and revascularized.

Obviously it was a risk to be taken physically and mentally. If only we could do a less invasive procedure eliminating cutting any bone but with equally good outcomes as the traditional technique then this would help innumerable patients undergoing coronary bypass.

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70% of the patients requiring CABG, in a safe and reproducible manner. The additional costs incurred were for the new stabilizer and heart positioner and amounted to approximately 100,000 for each operation. The instrumentation was changed completely from the traditional ones and incurred a one-time expense of approximately 35,000. The vein required for the revascularisation that is traditionally harvested from the leg by cutting was now harvested totally endoscopically and required an additional investment of 18,000 which was again on reusable equipment. This is a sustainable operation and we have now crossed 400 operations with zero mortality. All types of cases from the very complex left main disease and damaged, dilated hearts have been treated with MICAS. The outcomes are truly gratifying both for the surgeon and the patients. It does not require very expensive instrumentation like a robot or specialized training, costing crores of rupees, while delivering equally good outcome that the common man can easily afford.

Impacts and benefits
1. Reduced narcotic use. Pain is managed only with paracetamol.
2. Quick in hospital recovery with ICU stay of 12 hours post procedure. Ambulation within 6 hours of surgery.
3. Significantly reduced blood usage. Average transfusion of red cells falls to 0.5 units per case.
4. Shortened hospital stay from average of 6 days to 3 days.
5. Eliminates wound infection. Deep wound infection is zero. Superficial wound breakdown in just 3 out of 400 patients. No culture positive infections. This is remarkable in view of most patients being diabetic and more prone to infection.
6. Faster return to work. 70% of patients resume normal work patterns in under 10 days, compared to traditional CABG where return to work is on an average 45 days.
7. Enormous benefit to the elderly. Our oldest patient is 87 years and the recovery time frame was 14 days to normalcy.
8. Sets new standards of care in terms of recovery, financial implications (most patients are diabetic).
9. New benchmark for ALOS after CABG.
10. We now conduct workshops both live and on cadavers across multiple centers around the country demonstrating how practice can be changed. We have contributed substantial quantity of information to the world body of heart surgeons (very few) practicing this technique on the many refinements that we have brought about.
11. Financial Impact:
   a. ALOS of CTVS Department - brought down from 8.5 to 5.45 days
   b. MICS ALOS is 3.9 days which includes 1 day for pre-admission

Smart Safety for Isolation Areas (Indraprastha Apollo Hospital, New Delhi)

The need:
The hospital protocols require the staff to always put on personal protective equipment before entering the room of any patient with airborne infections. This process takes significant time, causing delays for patients and negatively affecting staff productivity and their willingness to visit isolated patients.

The requirement was also leading to less-than-optimal adherence to contact precautions, as staff was tempted not to put on protective equipment for routine communications.

Each movement inside the isolation room requires the donning of the PPE, hence, incurs certain costs. These costs can be reduced if the evitable movements to the isolation room can be avoided and at the same time the patients’ requirements are attended to.

Conceptualization & Implementation
A one-month study was conducted at the isolation room to map the movements of the staff into the patient room (from 6 am to 5.30 pm).

The following parameters were captured during the study period:
- Number of movements by each category of staff including Consultants
- Purpose of each type of movement (to determine evitable movements)
- PPE donned while entering the room
- Hand-washing compliance

Approximately 40 movements each day (between 6:30 am to 5:30 pm) occurred into the isolation room. The various categories of staff that interacted with the patient included the nursing, housekeeping, dietetics, medical services, and other support services.

Out of the above mentioned average 40 movements observed in the day time, around 13 movements (32%) were evitable (did not require the staff to enter the room).

Because the staff has to wear the PPE, each time they enter the patient room, each movement in the patient room costs the hospital approximately Rs. 197 (refer Appendix I) when the N-95 masks are used. Moreover donning the PPE takes over 70 seconds.

Thus in order to save the staff’s time, reduce the costs of personal protective equipment, increase the frequency and quality of interactions between staff and patients, without increasing the risk of health care–associated infections, the ‘Safety Zone’ for Isolation Rooms was implemented.
A 3-foot square area was marked by red duct tape, at the entrance to the isolation rooms and rooms where patients requiring contact precautions are placed. The area served as a “safe zone” where the staff could interact with these isolated patients without donning personal protective equipment.

Intercom system was placed outside the Isolation Room. The program was readily accepted by the Infection Control Committee. The staff was more than willing to accept the initiative.

Key components of the initiative included the following:

• Clearly marked safe zone at entry to rooms of isolated patients: Whenever a patient is placed on contact precautions, a high-quality red duct tape is used to create a 3-foot square box at the entrance to the room. This area represents a safe zone where the staff can stand without donning personal protective equipment, and also serves as a visual cue to all who enter the room (e.g., physicians, nurses, and housekeeping staff) that the patient is on contact precautions.

• Setting up the Intercom for communications from the safe zone: Staff can conduct routine communications, education of the patient using the intercom system placed at the entrance. This system includes responding to calls from patients or family members and proactively checking on the patient’s status and needs.

• Donning of protective equipment as needed: If the staff member deems it necessary to get closer to the patient or touch a surface within the room, he or she puts on personal protective equipment before leaving the safe zone and takes it off on exiting the room, as outlined by hospital protocols.

Impacts & Benefits

Reducing HAIs

Since implementation, no change has occurred in the frequency of HAIs, offering further confirmation that communicating from the safe zone does not increase the risk of spreading infections.

Enhancing Staff Safety

In fact, by reducing the number of face-to-face interactions of the staff with such patients, we are actually reducing the risk of infections, at the same time without compromising on patient engagement. This also addressed the issue of risks associated with non-compliance to the contact precautions by reducing the number of movements to inside the patient’s room.

More frequent and better communication

It also improved the willingness of the staff to interact more with the patient as they could now safely communicate with the patients placed on contact precautions. (Refer Fig 1)

THE NURSE EMPHASIZES THAT THE PROGRAM ALLOWS STAFF TO COMMUNICATE SAFELY WITH THOSE IN THE ROOM WITHOUT GOING THROUGH THE TIME-CONSUMING PROCESS OF DONNING PERSONAL PROTECTIVE EQUIPMENT.

NEW CONSTRUCTION MAY BECOME COST EFFECTIVE WHEN AN OLDER ICU REQUIRES EXPENSIVE REPAIRS OR UPKEEP TO REMAIN VIABLE, OR SIMPLY CEASES TO FUNCTION WELL.
Cost Savings
Approximate cost of PPE incurred in one movement: Rs 200
Approximate number of evitable (avoidable) movements: 13

Cost savings incurred in one day by replacing the avoidable movements with 'Safety Zone' system:
= Rs. 197*13
= Rs. 2561

Hence cost savings incurred in one month = Rs. 2561*30 days
= Rs. 76,830

Moving the Axis of Care:
Redesigning space for International standards multidisciplinary critical care unit to deliver patient-centric and efficient services (Apollo Hospitals, Chennai)

The need:
Hospitals undertake ICU construction for many reasons: to adapt to changing patient demographics or disease patterns; to upgrade or add services; and to accommodate changes in the flow of information, materials, or patients. New construction may become cost effective when an older ICU requires expensive repairs or upkeep to remain viable, or simply ceases to function well. Designing for infection control – by separating patients, adding isolation facilities, adding hand hygiene stations, upgrading mechanical ventilation and filtration, revising provisions for disposal of human waste, or introduction of antimicrobial materials – can lead to better footfall management and efficiency.

Key issues with facility stacking and adjacencies
- Co-location of departments with significantly different clinical and operating requirements leading to inefficient patient and work flows
- Fragmentation of key assets spreading highly skilled resources across locations and affecting clinical safety and efficiency
- Facility adjacencies not in alignment with workflow dependencies
- Random sequencing of high and low footfall-density facilities affecting infection
- Control and crowd management
- Lack of clarity on future programs leading to random blocking of spaces that could affect efficiency of future layouts

Conceptualization & Implementation

Concept, Discussion and Analysis:
ICU design is complex and should include both clinically oriented and design based multiprofessional team members. Each team member will bring specialized skills and knowledge to focus on the project at hand, which might be a remodeling, an expansion, or a completely new ICU.

Project team members comprised of:
1) DMS and Head Operations
2) the clinical team – a multidisciplinary group, including physicians, nurses, infection control specialists, pharmacists, therapists, and ancillary staff
3) the design team – the architect, engineers (mechanical, electrical, structural), and technology planners (medical equipment, information technology, others)
4) other hospital service representatives (materials management, environmental services, food service, others).

Evidence shows that the physical environment affects the physiology, psychology, and social behaviors of those who experience it. The goal of the design process is to create a healing environment – the result of design that produces measurable improvements in the physical or psychological states of patients, staff, physicians, and visitors. Elements of a healing environment include: materials and finishes that reduce noise levels, minimize glare, and support infection control; floor plans, equipment, and other features, such as human engineering principles, may enhance efficiency and effectiveness of patient care and minimize workplace injury; stress-reducing furnishings and decor, and thoughtful provision for the creature comforts of patients, families, and staff. Optimal ICU design can help to reduce medical errors, improve patient outcomes, reduce length of stay, and increase social support for patients, and can play a role in reducing costs.

Principles guiding the Renovations were:
- Facilities clustered based on clinical functionalities and workflow dependencies
- Facility adjacencies planned to minimize patient movement and improve efficiency
- Major assets massed for flexibility and interoperability
- All critical facilities adjacent to ensure high standards of clinical care and infection control
- Dedicated pathways for patient movement to ensure high standards of clinical care and safety
- Clear segregation of front-of-the-house and back-of-the-house activities for efficient material and people flows
- Layouts aligned with footfall density for better footfall management

ONE NEW 25-BED MDCCU HAD BEEN DESIGNED TO IMPROVE THE PATIENT SAFETY THROUGH RESEARCH-BASED DESIGN THAT COULD POSSIBLY BE USED AS AN EXAMPLE BY OTHER HEALTH CARE ORGANIZATIONS
Impacts & Benefits
One new 25 -bed MDCCU had been designed to improve the patient safety through research-based design-a design that could possibly be used as an example by other health care organizations that were building new facilities, remodeling, or expanding existing facilities.

The specific safety design principles, intended to specifically address both latent conditions and active failures, included the following:
- Automate where possible
- Design to prevent adverse events (e.g., patient falls, operative / post-operative complications and infections and deaths associated with restraint use)
- Design for scalability, adaptability, and flexibility
- Place accessibility of information in close proximity to the patient
- Improve visibility of patients to staff
- Involve patients in their care
- Minimize patient transfers/handoffs
- Reduce noise
- Standardize

The Multidisciplinary Critical Care Unit
Our critical care unit consists of four major zones, each housing a primary function.

1) The Patient Care Zone consists of patient rooms and adjacent areas; its primary function is direct patient care.
2) The Clinical Support Zone consists of functions closely related to direct patient care; not only inpatient rooms but also in other areas of the unit.
3) The Unit Support Zone refers to areas of the unit where administrative, materials management, and staff support functions occur.
4) The Family Support Zone refers to areas designed to support families and visitors.

Benefits
Patient - centeredness, including
- Using variable-acute rooms and single-bed rooms
- Ensuring sufficient space to accommodate family members
- Enabling access to health care information
- Having clearly marked signs to navigate the hospital

Safety, including
- Applying the design and improving the availability of assistive devices to avert patient falls
- Using ventilation and filtration systems to control and prevent the spread of infections
- Using surfaces that can be easily decontaminated
- Facilitating hand washing with the availability of sinks and alcohol hand rubs
- Preventing patient and provider injury
- Addressing the sensitivities associated with the interdependencies of care, including work spaces and work processes

Effectiveness, including
- Use of lighting to enable visual performance
- Controlling the effects of noise

Efficiency, including
- Standardizing room layout, location of supplies and medical equipment
- Minimizing potential safety threats and improving patient satisfaction by
- Minimizing patient transfers with variable-acute rooms

Timeliness, by
- Ensuring rapid response to patient needs
- Eliminating inefficiencies in the processes of care delivery
- Facilitating the clinical work of nurses

Equity, by
- Ensuring the size, layout, and functions of the structure meet the diverse care needs of patients

The evidence-based remodeling is emerging to support the business case that designing for safety and quality can improve patient outcomes and safety, promote healing, increase patient satisfaction, and reduce costs.

Apollo Accreditation Program (AAP): A web based Joint Commission International standards compliance management tool (Apollo Hospitals Group)

The need:
Creating and implementing processes to deliver quality care is a challenging task but even more daunting is the sustenance of these processes and systems. To comply, as well as monitor and manage the 329 standards and 1196 measurable elements as established by Joint Commission International across all JCI accredited hospitals within the Apollo Group is indeed a challenge. To develop a single measurable dashboard to display, measure and compare compliance levels for established standards of care was duly required. We required frequent monitoring of the gap between the expected level of care and the level of care delivered on ground so as to provide standardised care consistently. No such regular monitoring was done prior to this initiative. With an intent to provide standardised care consistently across the eight hospitals, the concept of Apollo Accreditation Program was developed. With AAP we aimed to provide for a single measurable dashboard to display compliance levels for each JCI accredited hospital within the Apollo Group with live data current till the last working day of the previous quarter.
Conceptualization & Implementation

Accreditation is a widely recognized seal of approval that brings international and national recognition to a healthcare organization for its commitment to excellence, accountability, high professional standards and continuous improvement. Hospitals benefit from both the status and the process of accreditation from each step of the review cycle, which continues to unfold over the long-term in its journey towards improving quality. The review process ensures sustainability but the frequency of assessment is 3 years. This span of 3 years provided adequate room to overlook or deviate from some processes. Apollo Accreditation Program served as a comprehensive tool for each hospital which can be used to maintain the same high standard of care throughout the years rather than when gearing up for surveys.

AAP comprises of all the standards and measurable elements, within each chapter of the JCI Standards Manual with provision for each location to report compliance on a periodic basis. The various standards of care were assigned to identified champions. For example Anaesthesia & Surgical Care and Medication Management & Usage were the responsibilities assigned to the Medical Superintendent of the hospital. The Medical Superintendent ensured that all policies, protocols and processes were being regularly monitored so as to ensure compliance and sustain them. Similarly, the Head of Operations ensured that the Hospital Facility and Management systems were well in place.

The compliance to measurable elements was verified through multiple approaches including regular Tracers by the Quality Team, Clinical Audits by Medical Team, Medication Management Audits by the Clinical Pharmacologists and Facility Rounds by the Operations Team. The main objective was to provide a comprehensive tool to each hospital which could be used to help maintain the same high standard of care throughout the years rather than when gearing up for a survey. This initiative equipped the ‘Champions’ to understand the requirement of the standards in collaboration with the Quality Teams. The ‘Champions’ were able to interpret the standards better, which subsequently improved the implementation process. Moreover, cross-sectional audits helped to reduce the interdepartmental gaps and loopholes thereby enhancing efficiency or effectiveness of co-departments.

Each measurable element was then scored on a three-point scale of “0” which indicated Non-Compliance or “Not Met”; “4 or less than 10 records or observations demonstrated compliance”, “0.5” indicated Partial Compliance or “Partially Met”(5 through 8 out of 10 records or observations demonstrated compliance) and “1” which indicated Satisfactory Compliance or “Fully Met”(9 out of 10 records or observations demonstrated compliance). After creating the online module, the Director Medical Services of each hospital was given a unique login ID for overall supervisory control. Within each hospital the chapters were assigned to Head of Departments based on their role and responsibilities. Each location submitted their data within the first 10 days of next quarter for the preceding quarter, which was then centrally assessed and scored for each location, to eventually give us the overall compliance level for the entire Group, at any given date. A single dashboard view summarized the overall compliance at each location and for the entire Apollo Group as a single entity.

Prior to this program weekly audits were done by the Quality Team. Looking onto 1196 measurable elements was a huge task and AAP divided the responsibilities among the ‘Champions’ who do regular audits regarding the chapters assigned to them. This has developed a sense of ownership among them thereby enhancing constant vigil and compliance levels. The compliance levels are submitted within stipulated time by each location. The dashboard is then viewed by top management including Chairman and accordingly further management and quality governance strategies are formulated.

Impacts & Benefits

This initiative helped to enhance ‘Overall satisfaction with experience at hospital’ at all locations captured through our feedback mechanism i.e. the Voice Of Customer which is filled by the patient before discharge to share their experience. e.g.: Indraprastha Apollo Hospitals, Delhi score for this parameter had increased from 4.64 in August 2012 to 4.77 by April 2013(Fig: 1).

IN AAP MODULE, CONFIDENTIALITY OF DATA IS TO BE FOCUSED UPON. WE PLAN TO EXTEND THE SCOPE OF THIS TOOL FOR OTHER ACCREDITATION STANDARDS LIKE NABH, NABL FOR LABS, BLOOD BANKS.
There was an overall increase of 15.5% in the compliance levels for the eight JCI accredited hospitals within the Apollo Group in the duration of one year of implementation of the Apollo Accreditation Program.

The module has also helped in developing a culture of patient safety across the organization. Now the systems and processes focus on patient safety at any given time across the Apollo Group. In AAP module, confidentiality of data is to be focused upon. We plan to extend the scope of this tool for other accreditation standards like NABH, NABL for labs, blood banks.

Project CODE GREEN (Apollo Gleneagles Hospitals, Kolkata)

The need:
Code Green is a component of ESCALATE strategies developed by the hospital to prevent Hospital Acquired Infections with Multidrug resistant organisms. The idea is to mitigate the Infection Control – Patient Safety related risk from Carbapenem Resistant Gram Negative Bacteria (CRGNB), Multidrug resistant Acinetobacter and Pseudomonas, MRSA and other organisms in the Hospital Acquired Infection within Apollo Gleneagles Hospital. The purpose is to establish a Code Green policy that will lay down systematic steps of action to be taken in the event of an infected patient being transferred from one ward to another ward/ diagnostic department. It is also to ensure the safety of staff involved in transporting the patient and to assign responsibilities to individuals and departments in responding to this emergency. The Infection Control practices are not robust during the patient transport from one unit to the other unit. The diagnostic units in the hospital including radiology, endoscopy, non interventional cardiology and other outpatient department play a pivotal role in infection control within a hospital because it is a site of high patient traffic and thus has the potential to be a major source of infection transmission among patients, health care personnel, and hospital visitors. Principal goals for infection control in these department should be to optimally observe infection control precautions and adhere to standards for environmental and equipment cleansing.

Conceptualization & Implementation

I. Code Green concept was derived from SWARM INTELLIGENCE MODEL to allow flexibility, robustness, decentralization and self organization of the staff and unit performing infection control.

Central Idea - SWARM INTELLIGENCE
• Flexibility - The nearest team of transport staffs, housekeeping team and the nursing takes over the role to ensure Code Green.
• Robust - All staffs trained to follow the steps. In absence of one group, another takes over.

II. Code Green is a mechanism to alert the hospital staff through announcements when an infected patient requiring contact or other isolation is transported from one unit of the hospital to another unit.

III. Scope includes patients who are currently having Contact Precautions with Carbapenem resistant Enterobacteriaceae, Multi drug resistant Acinetobacter and Pseudomonas and MRSA; Enteric precautions with Enterococcus and Clostridium difficile; Respiratory Precaution through Pulmonary Tuberculosis etc.

IV. The areas include transfer of patients to Radiology units, Endoscopy & Bronchoscopy units, Pulmonary Function Test unit, Non Interventional Cardiology unit and other areas of the hospital where these patients are transported for the diagnostic procedure.

V. The hand hygiene solutions were made available in these areas by construction of new sinks in Radiology and in Endoscopy areas. Hand hygiene compliance was monitored through renewed checklists. Hand Hygiene pamphlets were provided to encourage social hand wash at these areas – for Outpatients and Inpatient families.

VI. Focus was also laid on patient and family to train them on the techniques of hand hygiene.
VII. Procedures were developed for routine care, cleaning, and disinfection of environmental surfaces, especially frequently touched surfaces in patient-care areas of MDR patient in diagnostic areas following their use.

VIII. These included—
• Focus technique to use Hand Held spray guns only - no mop and bucket usage;
• Tissue papers for cleaning – no clothes and these need to be disposed of immediately after use;
• Use of double layer disinfectant solution – suggested – Ecoshield followed by Vircon; Contact time – minimum 5 minutes with rubbing the surfaces; between disinfectants 5 minutes and Frequency – immediately after patient use.

IX. 40 environmental samples taken and analysed in the month of April 2012 showed a 0% growth in CRGNB and 5% in MDR-NF whereas previous study showed 17% CRGNB and 10% MDR -NF contamination in March 2012.

X. 346 Code Green Calls were made from April 2012 to May 2013.
• Majority of the calls were made for patients being shifted to the Radiology Department (82%).
• 10% of calls were for patients being shifted to Non Invasive Cardiology Procedures like Echocardiography.

For patient transport, the following guidelines apply
• Wear gloves only if the staff is physically moving the patient from the bed. Green Board to be placed in the bed.
• Staff should wear gloves and a gown only if the patient is incontinent, or has diarrhea or a draining wound.

Patient transport in Code Green Calls followed this pattern:
• "Code Green" is announced when an infected patient is transferred for investigations/ non-invasive procedures.

• Gloves and Gown worn when physically moving the patient from the bed in a Green trolley.
• Before entering the receiving unit the person carrying the patient removes the gown and gloves, washes hands, and then takes the patient to the receiving unit.
• After the investigation is complete the staff again dons PPE to take the patient back to the ward.
• After transportation is complete, the stretcher or the wheelchair is wiped with VIRKON.

Impact & Benefits
There were no additional costs involved in the process. It was done through appropriate time management and staff education.

Strategies:
Nursing will notify Receiving Departments of any patients on Special Organism Precautions.

THIS PROJECT BRINGS A UNIQUE FLAIR OF COMBINING CONCEPT OF INTELLIGENCE MANAGEMENT AND INFECTION CONTROL PRINCIPLES TO MITIGATE THE RISK OF INFECTIONS TO THE PATIENTS IN THE HOSPITAL - PARTICULARLY IN DIAGNOSTIC SETTING.
Nurturing Excellence

Excellence is a work in progress.
To excell one must learn, unlearn, evolve.
Post Graduate and Post Doctoral Medical Education at Apollo Hospitals group

In an integrated academic center of excellence model in healthcare space, clinical excellence, which assures the best quality of care to the patients, shares a symbiotic relationship with academic excellence emphasising on training and research.

Various post graduate and post doctoral medical education programs are being offered at Apollo Hospitals group with an aim to develop human resources with requisite skill sets in the medical arena to address the critical shortage of competent trained specialists in the highly technology oriented current day medical practice.

1. Diplomate of National Board (DNB) programs

During the academic year 2013-2014 fifteen hospitals of the Apollo Hospitals groups located at Chennai, Hyderabad, New Delhi, Kolkata, Bangalore, Mysore, Madurai, Pune, Ludhiana, Ranchi, Bilaspur and Bhubaneswar are offering the DNB and FNB programs in 38 specialties and subspecialties as mentioned below:

Board Specialties (DNB)

1. Anaesthesiology
2. ENT
3. Family Medicine
4. General Surgery
5. Nuclear Medicine
6. Obstetrics & Gynecology
7. Orthopaedics
8. Internal Medicine
9. Pathology
10. Paediatrics
11. Respiratory diseases
12. Radiodiagnosis
13. Radiotherapy
14. Immunohaematology & transfusion Medicine
15. Emergency Medicine

Super Specialties (DNB)

1. Cardiology
2. Cardiothoracic Surgery
3. Endocrinology
4. Medical Gastroenterology
5. Medical Oncology
6. Nephrology
7. Neuro Surgery
8. Neurology
9. Plastic Surgery
10. Paediatric Surgery
11. Rheumatology
12. Neonatology
13. Surgical Gastroenterology
14. Surgical Oncology
15. Urology

FNB: Fellow of National Board of Examinations:

(Subspecialty post doctoral program of 2 years duration)

1. Critical Care Medicine
2. Cardiac Anaesthesiology
3. Infectious Diseases
4. Minimal Access Surgery
5. Interventional Cardiology
6. Paediatric Intensive care
7. Paediatric Hematology
8. Paediatric Cardiology

During the annual year 2013-2014, the following new post graduate and post doctoral training programs have been started in the Apollo Hospitals group.

DNB:

Rheumatology
Paediatric Surgery
Neonatology
Emergency Medicine

FNB:

Cardiac Anaesthesiology
Interventional Cardiology

The numbers of DNB/FNB seats have increased by over 30% from 205 in annual year 2012-2013 to 263 during annual year 2013-2014 with over 700 DNB trainees enrolled in the Apollo group of Hospitals in the annual year 2013-2014.

Besides the post graduate and post doctoral programs accredited to National Board of Examinations, other post graduate Diploma and Fellowship programs are being offered in Apollo Group of Hospitals accredited to Royal College of General Practitioners (UK), Royal Liverpool university (UK), Dr. NTR university of Health Sciences, AP, Indira Gandhi National Open University (IGNOU), Indian College of Pathologists, Indian Society of Critical Care Medicine and College of Emergency Medicine (UK).

During the current academic year over 1,000 PG Medical trainees are pursuing various Post Graduate and Post Doctoral training programs in Apollo Group of Hospitals including DNB, FNB, MCEM, IDCCM, IFCCM, PGDCC, DEM, DFM, PDCC courses.

II. Royal College membership programmes:

A) Membership of College of Emergency Medicine (UK) (MCEM):

The course is conducted by Apollo Hospitals, Hyderabad under the aegis of College of Emergency Medicine (UK). It is of three years duration and medical graduates from Medical schools recognized by MCI are eligible for the course. Currently this programme is being offered at Apollo Hyderabad, Chennai, Delhi, Bangalore, Ahmedabad and Kolkata.

B) MRCGP (International): Member of Royal college of General Practitioners (International):

Conducted in collaboration with RCGP (UK) and IMA.

### III. Other PG Programmes:

A) **IDCCM & IFCCM (Indian Diploma in Critical Care Medicine & Indian Fellowship in Critical Care Medicine)** is being conducted under the aegis of ISCCM at Apollo Hospitals, Hyderabad, Chennai, Kolkata, Pune, Bhubaneswar and New Delhi.

B) **PG Diploma in Clinical Cardiology (PGDCC)**

The PG Diploma programme in Clinical Cardiology (PGDCC) is conducted in collaboration with IGNOU. Medical Graduates are trained for 2 years in clinical non-interventional cardiology. It is available at Hyderabad, Chennai, Kolkata, Ludhiana, Delhi and Bangalore. Currently 100 trainees are pursuing PGDCC programme in Apollo Group of Hospitals.

C) **PDCC (Post Doctoral Certificate Course)**

A one year fellowship programme in Nephropathology for pathologists with MD/DNB (Pathology) qualification is being offered at Apollo Health City, Hyderabad, accredited by the Indian College of Pathologists.

D) **Diploma in Emergency Medicine (DEM):** It's a one year Post Graduate Diploma programme being offered by Medversity online limited, accredited by University of Liverpool (UK) with 9 months contact programme in the Emergency Medicine services of Apollo Hospitals group and 3 months of online training imparted by MedVarsity.

E) **Diploma in Family Medicine (DFM):** It’s a one year Post Graduate Diploma programme being offered by Medversity online limited accredited by the Royal college of General practitioners (UK) with 9 months contact programme in the Department of Family Medicine along with 9 months of online training imparted by Medvarsity.

### Performance in exit exams:

The success rate of DNB/FNB trainees in the exit exams at Apollo group of Hospitals for the annual year 2013-14 is 68%. While 55% of MCEM trainees have cleared the Part B&C of the exit exam during the current academic year, 95% of PGDCC and 100% of PDCC (Nephro pathology) trainees have come out with flying colors in the final qualifying exam conducted by the IGNOU and Indian College of Pathology. In future, we shall endeavor to continuously upgrade the infrastructure and teaching resources by training the faculty and trainees and leveraging technology in our hospitals to enable us to improve the quality of structured competency based post graduate training.

### Course Affiliation

- **MCEM (Member of Royal college of Emergency Medicine)** College of Emergency Medicine, UK
- **IDCCM (Indian Diploma in Critical Care Medicine)** ISCCM, Indian Society of Critical Care Medicine
- **IFCCM (Fellowship in Critical Care Medicine)** ISCCM
- **PhD in Molecular Medicine and Medical Microbiology** Dr NTR University of Health Sciences
- **Fellowship in Nephro pathology** Indian College of Pathology
- **FEM (Fellowship in Emergency Medicine)** Royal Liverpool University (UK)
- **DFM (Diploma in Family Medicine)** Royal College of General Practitioners (UK)
- **IPPC (International Postgraduate Pediatric certificate)** University of Sydney
- **DNB (Diplomate of National Boards, New Delhi)** National Board of Examinations, New Delhi
- **PGDCC (Post Graduate Diploma in Clinical Cardiology)** IGNOU, New Delhi

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</table>

### PG DIPLOMA PROGRAMME IN CLINICAL CARDIOLOGY (PGDCC) IS CONDUCTED IN COLLABORATION WITH IGNOU. MEDICAL GRADUATES ARE TRAINED FOR 2 YEARS IN CLINICAL NON INTERVENTIONAL CARDIOLOGY.
Apollo Group ties up with Rochester Varsity

Apollo Hospital on 27th August announced a tie-up with University of Rochester Medical Centre, New York, envisaging patient care and academic collaboration. As part of the tie-up the University of Rochester and Apollo Hospital’s under-graduate medical college will have faculty and student exchange programme. Also, the University of Rochester will provide its expertise in designing special curriculum, which will be taught here in addition to the syllabus prescribed by the Medical Council of India.

Dr. Prathap C Reddy, Chairman of the Apollo Group, said the two institutions would also share expertise, in-clinical care and research across multiple specialties such as gastroenterology, emergency medicine and neurosciences.

Medvarsity

Medvarsity is the first Medical e-learning venture in India. As envisioned by our Chairman Dr Prathap C Reddy we, at Apollo Hospitals Group, are committed to the achievement and maintenance of excellence in education and research for the benefit of humanity. We firmly subscribe to the belief that clinical services supported by medical education & research of the highest quality relevant to the needs of the country should be an integral part of Apollo Hospitals.

There are various programs being offered as part of post graduate medical education initiative at Apollo Hospitals group with the aim of developing competent human resources in the medical arena.

Academic Achievements of Medvarsity

Diploma in Emergency Medicine

1900 doctors trained and educated in Emergency Medicine and Intensive Care Medicine until date. The Diploma in Emergency Medicine is offered by Royal Liverpool Academy (RLA), Royal Liverpool University Hospital and Medvarsity Online Ltd. The duration is 1 year and an extensive 9-month contact program at Apollo Hospitals. The quality of the program is assured by RLA, UK.

Currently, there is a huge demand for trained professionals in accident and emergency care and is expected to rise significantly. As per a BBC report, one person dies every 6 minutes and 10 people are critically injured in road traffic accidents in India.

Emergency Medicine is relatively new in India but is fast growing to be a critical specialty. There are very few training programs for Emergency Medicine while the demand for qualified emergency physicians is massive. Those who train in this specialty now have an exciting career ahead of them as many institutes across the country and abroad are in desperate search of qualified emergency physicians.

Medvarsity also offers a 6-month course in Intensive Care Medicine with a rigorous 15-day contact program at Apollo Hospitals. This program is designed to develop registered and graduate medical professionals into intensive care practitioners through a programmed approach of knowledge and skills acquisition coupled with a critical thinking focus. This program also prepares the student to take full responsibility for the quality of treatment and care of the critically ill patient. The course material has been developed by experienced specialists from Apollo Hospitals and Medvarsity.

Diploma in Family Medicine

Trained 1022 doctors in the field of Family Medicine while the demand for qualified emergency physicians is massive. Those who train in this specialty now have an exciting career ahead of them as many institutes across the country and abroad are in desperate search of qualified emergency physicians.

Medvarsity also offers a 6-month course in Intensive Care Medicine with a rigorous 15-day contact program at Apollo Hospitals. This program is designed to develop registered and graduate medical professionals into intensive care practitioners through a programmed approach of knowledge and skills acquisition coupled with a critical thinking focus. This program also prepares the student to take full responsibility for the quality of treatment and care of the critically ill patient. The course material has been developed by experienced specialists from Apollo Hospitals and Medvarsity.

Diploma in Family Medicine

Trained 1022 doctors in the field of Family Medicine

The Diploma in Family Medicine is a one year course with a 3 month contact program at Apollo Hospitals. The course is quality assured by RCGP who also act as external examiners during the assessments.

The Family Medicine Course gives doctors in India a chance to upgrade their knowledge and skill online followed by full time clinical attachment.

The demand for family medicine courses run by various institutions is seeing a major increase. As against just 50 MBBS students enrolling to become family physicians a couple of years ago, the numbers reached close to 300 in 2011. This is mainly because private hospitals have increased their recruitment for general practitioners.

Introduction of Family Medicine as a PG discipline has been emphasized by the Bhore Committee, National Health Policy 2002, National Knowledge Commission and the taskforce on human resource for NRHM.

Fellowship in Dialysis

Medvarsity has successfully trained about 100 students in the field of Dialysis.

There are about 1.5 million people currently undergoing renal replacement therapy in India and the number is expected to double within the next 10 years.

This 6 months course followed by 2-week hands on training will enable professionals to play a crucial role in delivering the best dialysis treatment and discuss the value of teamwork during dialysis.

Diploma in Hospital Administration

Medvarsity has successfully trained and developed 6000 graduates in the field of Hospital Administration. This one year course, which involves a 15 day contact session and a project work, prepares qualified and efficient administrators to manage modern hospitals and deliver better healthcare.

INTRODUCTION OF FAMILY MEDICINE AS A PG DISCIPLINE HAS BEEN EMPHASIZED BY THE BHORE COMMITTEE, NATIONAL HEALTH POLICY 2002, NATIONAL KNOWLEDGE COMMISSION AND THE TASKFORCE ON HUMAN RESOURCE FOR NRHM.
Until recently, doctors without any professional training in management were assigned managerial roles. Besides being a difficult task, doctors barely managed to devote time to their patients. Thanks to the rapid corporatization, a lot of medical graduates are taking up further specialization in hospital administration. Even non-medical professionals are increasingly taking up the mantle of hospital administration. The government too is veering around to the view that public hospitals also need to be run professionally. Hence there is a strong need for a course in Healthcare Management.

It is evident that there is a wide gap between supply and demand for trained healthcare managers / administrators to work for hospitals, pharmaceutical companies, health insurance and third party administrators and other healthcare organizations. There are bright opportunities even in the government sector. The National Rural Health Mission (NRHM) looks forward to appoint healthcare administrators. The demand for healthcare professionals is envisaged to increase in manifolds in the years to come with more and more hospitals expected to increase in semi-urban and rural areas.

Certificate Course in the Management of Diabetes
Successfully provided education and training to over 1000 students in the field of Diabetes Management. An estimated 41 million Indians are diabetic and this figure is expected to reach 73 million by 2025 making India the diabetes capital of the world.

This 6 month course followed by a 1-week contact program will impart knowledge, skills and confidence in the delivery of diabetes care and to respond appropriately in complex practice situations with other professionals.

Certificate Course in Healthcare Quality Management
Trained and certified 2500 healthcare professionals in Quality Management. Quality improvement has to be the core competency for every healthcare manager and clinician at every level of medical practice. An increasingly educated public expects to receive nothing less than excellent care and services and it must be the mission of every healthcare organization to deliver that excellence.

The 6-month Certificate Course in Healthcare Quality is designed to provide participants with a solid foundation of all the core elements of healthcare quality improvement. The fundamental concepts, tools and management techniques of quality are extensively covered in this program.

Nursing Courses
Trained and certified around 425 nurses in various specialties. Nurses and nursing assistants form the largest group of workers in health sector. They are required in the hospitals and health centres right from general ward to operation theatre. Therefore, with the growth of the health industry, the demand for nurses is also increasingly making a career in nursing very attractive.

With increasing health consciousness in India, the quality of health services has improved. Skilled and specialized nurses are in high demand by the health organizations.

Medvarsity offers nursing courses of 3 months duration in Cancer and Palliative Nursing, Surgical Nursing, Nursing Administration, Critical Care Nursing, Cardiac Nursing and Ward Sister Course, which are available online and offline for nursing graduates who wish to enhance their skills in specialized areas.

Fellowship in Neurological Rehabilitation
More than 350 students have been awarded successfully. From the bench to the bedside bringing neuroscience to the clinical workplace, this is a flexible program designed for health professionals with an interest in neurological rehabilitation wishing to enhance their career potential in this field.

The program is transferable across health care settings nationally and internationally and enables students to apply underpinning principles to their specific areas of work; it encourages debate, critique and self-analysis of a health care professional’s own clinical practice; it enables students to promote and lead change and be responsive in a changing health care environment.

Fellowship in Orthopaedic Rehabilitation
There are 448 health care professionals that have been trained & educated. This unique course enables specialist registrars to acquire a scientific and analytical approach to orthopaedic practice, and engenders a class of orthopaedic rehabilitation with a depth and breadth of skills, knowledge and attitude based on a solid foundation of science and clinical expertise.

This E-Learning covers a broad spectrum of musculoskeletal science, including basic science and clinical aspects. It aims to give students, in a multidisciplinary setting, a holistic view of musculoskeletal science and rehabilitation, and provides an in-depth knowledge of specific areas appropriate to each student’s individual interests.

Fellowship in Cardiac Rehabilitation (FCR)
Medvarsity was able to deliver the course on FCR to 473 health care professionals successfully. This course aims to provide health professionals with an understanding of cardiovascular rehabilitation and prevention, to prepare health professionals to provide an effective cardiac rehabilitation service, and to evaluate their practice objectively through research. It also aims to develop the health professionals’ knowledge of current prevention strategies in the area of cardiovascular disease. The student will gain research experience and undertake a research dissertation.
Fellowship in Sports Sciences
(FSS)
The FSS program started in 2005. Since then Medvarsity has trained 271 physical therapists, sports nutritionists and other health care professionals. Offers knowledge and expertise to develop students’ evaluative, critical thinking and problem-solving skills, and to increase their practical and theoretical knowledge of sports science and injury so that they can apply these skills in the further advancement of their profession.

Fellowship in Diabetes
Successfully provided education and training to over 200 students in the field of Diabetes Management. The “Fellowship in Diabetes” course is structured to provide broad, in-depth and updated knowledge in all the aspects of diabetic care and facilitate the physicians develop the skills for efficient and integrated diabetic care. The course offers in-depth and updated course content, latest advances and guidelines, 4 week period of hands on training to enhance clinical skills at major Apollo Hospitals across India.

The students will get a joint certification from Apollo Hospitals, Royal Liverpool academy and Medvarsity.

Fellowship in Pain Medicine
The Fellowship in Pain Medicine Course introduces the student to best practices in Pain Management. This course focuses on teaching comprehensive, interdisciplinary approach to management of pain in both inpatient and outpatient settings.

International Postgraduate Paediatric Certificate (IPPC)

International Postgraduate Paediatric Certificate (IPPC) program is run in collaboration with University of Sydney as a one year online program with contact classes at Apollo. It was started at three Apollo centres in 2010 - Delhi, Chennai and Kolkata.

We added two centres - Bangalore and Hyderabad in 2012.

Contact classes are organized at these locations for the students on a regular basis.

The exam for the 2012 -13 batch was organized in August 2013 at two centres, Delhi and Bangalore and at two centres, Delhi and Kolkata in December 2013.

Post Graduate Diploma in Clinical Nutrition
Successfully trained around 120 students in the field of Clinical Nutrition

The Post Graduate Diploma in Dietetics & Clinical Nutrition (PGDDCN) is a one year e-learning program with a combined integrative and preventive educational approach to health, nutrition and disease. It is specifically designed for health professionals who are interested in acquiring competency in the field of Clinical Nutrition.

The program consists of 100 plus instructional hours through expert web based classes, online learning resources plus hands on internship for 10 days in one of the Apollo Hospitals across India. Certification is by Apollo and Medvarsity.

THE “FELLOWSHIP IN DIABETES” COURSE IS STRUCTURED TO PROVIDE BROAD, IN-DEPTH AND UPDATED KNOWLEDGE IN ALL THE ASPECTS OF DIABETIC CARE AND FACILITATE THE PHYSICIANS DEVELOP THE SKILLS FOR EFFICIENT AND INTEGRATED DIABETIC CARE.
A Vision for Excellence

The pursuit of excellence is all about getting ahead of the curve before others.
AHERF Adjunct Titles

Policy to grant Adjunct titles of Professor and Associate Professor of AHERF was implemented across the group during the year 2013. Twenty one consultants were granted the adjunct title of Professor and Associate Professor of AHERF during the year 2013.

Consultants Granted Adjunct Titles of Professors and Associate Professors of AHERF - 2013

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Consultant</th>
<th>Speciality</th>
<th>Location</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Bharat J. Parikh</td>
<td>Oncology</td>
<td>Ahmedabad</td>
<td>Professor</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Govindarajan M J</td>
<td>Radiology</td>
<td>Bangalore</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Samrit Das</td>
<td>Endocrinology</td>
<td>Bhubaneswar</td>
<td>Associate Professor</td>
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<tr>
<td>4</td>
<td>Dr. Mohammad Ibrarullah</td>
<td>Gastroenterology &amp; Laparoscopic surgery</td>
<td>Bhubaneswar</td>
<td>Professor</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Prasant Kumar Sahoo</td>
<td>Interventional Cardiology</td>
<td>Bhubaneswar</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Abdul Gahfur</td>
<td>Infectious Diseases</td>
<td>ASH Chennai</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Anand Khakhar</td>
<td>Liver Disease &amp; Transplantation</td>
<td>Chennai</td>
<td>Professor</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Rajesh Chawla</td>
<td>Respiratory Medicine</td>
<td>Delhi</td>
<td>Professor</td>
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<tr>
<td>9</td>
<td>Dr. Devendra Kumar Agarwal</td>
<td>Nephrology</td>
<td>Delhi</td>
<td>Professor</td>
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<tr>
<td>10</td>
<td>Dr. Sundeep Upadhyaya</td>
<td>Rheumatology</td>
<td>Delhi</td>
<td>Associate Professor</td>
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<tr>
<td>11</td>
<td>Dr. Umanath Nayak</td>
<td>Head &amp; Neck Oncology</td>
<td>Hyderabad</td>
<td>Associate Professor</td>
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<tr>
<td>12</td>
<td>Dr. Sanjay Sinha</td>
<td>Urology &amp; Transplant Surgery</td>
<td>Hyderabad</td>
<td>Professor</td>
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<tr>
<td>13</td>
<td>Dr. P. C. Rath</td>
<td>Interventional Cardiology</td>
<td>Hyderabad</td>
<td>Professor</td>
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<tr>
<td>14</td>
<td>Dr. V. Sathavahana Chowdary</td>
<td>ENT, Head &amp; Neck Surgery</td>
<td>Hyderabad</td>
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<tr>
<td>15</td>
<td>Dr. Pankaj Kumar</td>
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<tr>
<td>16</td>
<td>Dr. Dev Shuvendu Roy</td>
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<tr>
<td>17</td>
<td>Dr. Gaurab Maitra</td>
<td>Anesthesiology &amp; Pain Medicine</td>
<td>Kolkata</td>
<td>Associate Professor</td>
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<tr>
<td>18</td>
<td>Dr. Usha Goenka</td>
<td>Radiology</td>
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<td>Associate Professor</td>
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<tr>
<td>19</td>
<td>Dr. Rabindra Nath Chakraborty</td>
<td>Cardiology</td>
<td>Kolkata</td>
<td>Professor</td>
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<tr>
<td>20</td>
<td>Dr. Krishnan Swaminathan</td>
<td>Diabetes &amp; Endocrinology</td>
<td>Madurai</td>
<td>Professor</td>
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<tr>
<td>21</td>
<td>Dr. Shyamab Subramanium</td>
<td>Biochemistry</td>
<td>Tondiapet, Chennai</td>
<td>Associate Professor</td>
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Published papers recognized

In pursuance of our policy for recognition of research papers published in journals with high impact factors, the following papers were recognized in 2012-13:

List of Published Papers recognized in 2013 - Apollo Group Consultants

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<tr>
<th>No.</th>
<th>Name of the Consultant</th>
<th>Specialty</th>
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<th>Publishing Journal and date</th>
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<tbody>
<tr>
<td>1</td>
<td>Dr. K. Abdul Gahfur</td>
<td>Infectious Diseases</td>
<td>ASH Chennai</td>
<td>Sensitivity pattern of Gram negative bacteria to the new beta-lactam/ beta-lactamase inhibitor combination: Cefepime/ tazobactam</td>
<td>Dr. Abdul Gahfur Dr. Ramasamy Pushparaj Dr. Sarathy Nalini Dr. Krishnamurthy Rajkumar Dr. Durairajan Sureshkumar</td>
<td>Journal of Microbiology and Infectious Diseases March 2012</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
</tr>
<tr>
<td>2</td>
<td>Dr. K. Abdul Gahfur</td>
<td>Infectious Diseases</td>
<td>ASH Chennai</td>
<td>Clinical profile of patients treated with cefepime/ tazobactam: A new Beta-lactam/ Beta-lactamase inhibitor combination</td>
<td>Dr. Abdul Gahfur Dr. Ashwini Tayade Dr. Priyadarshini Kannaian</td>
<td>Journal of Microbiology and Infectious Diseases September 2012</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<tr>
<td>3</td>
<td>Dr. Debnarayan Dutta</td>
<td>Radiation Oncologist</td>
<td>ASH Chennai</td>
<td>Factors influencing quality of life in adult primary brain tumour</td>
<td>Dr. Rakesh Jalali Dr. Debnarayan Dutta</td>
<td>Neuro Oncology September 2012</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>4</td>
<td>Dr. Debabrata Padhy</td>
<td>Orthopedics</td>
<td>Bhubaneswar</td>
<td>Osteoporosis affects component positioning in computer navigation - assisted total knee arthroplasty</td>
<td>Dr. Dae-Hee Lee Dr. Debabrata Padhy Dr. Soon-Hyuck Lee Dr. Kyung-Whok Nha Dr. Ji-Hun Park Dr. Seung-Beom Han from Korea</td>
<td>The Knee 2012; 19(3):203-7</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>5</td>
<td>Dr. Debabrata Padhy</td>
<td>Orthopedics</td>
<td>Bhubaneswar</td>
<td>Bilateral ankle swelling in a renal-transplant recipient Case presentation</td>
<td>Dr. Prasanta padhan Dr. Debabrata Padhy Dr. Bikash Agawala Dr. Ajit Biswal Dr. Samiran Adhikary</td>
<td>Indian Journal of Rheumatology March 2012; Vol. 7</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<tr>
<td>6</td>
<td>Dr. Mohammad Ibrarullah</td>
<td>Surgical. Gastroenterology</td>
<td>Bhubaneswar</td>
<td>Management of bile duct injury at various stages of presentation: Experience from a tertiary care centre</td>
<td>Dr. Md. Ibrarullah Dr. S. Sankar Dr. K. Sreenivasah Dr. S. R. K. Gavini</td>
<td>Indian J Surg DOI 10.1007/s12262-012-0722-2 September 2012</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<tr>
<td>7</td>
<td>Dr. Rashmi Sharma</td>
<td>Obstetrics and Gynecology</td>
<td>Bilaspur</td>
<td>Management of sickle cell disease in pregnancy</td>
<td>Dr. Rashmi Sharma</td>
<td>Apollo Medicine September 2012</td>
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<td>8</td>
<td>Dr. Ashish Jaishwal</td>
<td>Orthopaedics and spine surgery</td>
<td>Bilaspur</td>
<td>Minimally invasive spine surgeries MIS</td>
<td>Dr. Ashish Jaishwal</td>
<td>Apollo Medicine December 2012</td>
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<tr>
<td>9</td>
<td>Dr. Ramesh Venkataraman</td>
<td>Critical Care Medicine</td>
<td>Chennai</td>
<td>Sepsis: Update in the Management</td>
<td>Dr. Ramesh Venkataraman Dr. John A. Kellum</td>
<td>Advances in Chronic Kidney Disease, January 2012</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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## List of Published Papers recognized in 2013 – Apollo Group Consultants

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<th>Publishing Journal and date</th>
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<tr>
<td>10</td>
<td>Dr. N. Ramakrishnan</td>
<td>Critical Care and sleep Medicine</td>
<td>Chennai</td>
<td>Asian Venous thromboembolism guidelines: preven- tion of Venous thromboembolism</td>
<td>Dr. Liew N C- Malaysia Dr. Chu P H and Dr. Chang Y H-Taiwan Dr. Choi G-Hongkong Dr. Gao X - China Dr. Gibbo H-Australia and 14 others</td>
<td>International Angiology, December 2012</td>
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<td>11</td>
<td>Dr. K. Ganapathy</td>
<td>Neuro surgery</td>
<td>Chennai</td>
<td>Neuro surgery in India: an overview</td>
<td>Dr. K. Ganapathy</td>
<td>World Neuro-surgery</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>Dr. Ram Gopala krishnan</td>
<td>Infectious Diseases</td>
<td>Chennai</td>
<td>Histoplasmosis in India: Truly Uncom- mon or Uncom- monly Recognised</td>
<td>Dr. Ram Gopal- akrishnan Dr. P. Senthur Nambi Dr. V. Rama subra- manian Dr. K. Abdul Ghafur Dr. Ashok Parameswaran</td>
<td>Journal of association of Physicians of India October 2012</td>
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<td>Dr. Shareek, P.S.</td>
<td>Infectious Diseases</td>
<td>Chennai</td>
<td>Antibiotic sensitiv- ity pattern of blood isolates of acinetobacter species in a tertiary care hospital</td>
<td>Dr. Shareek P S Dr. D. Sureshkumar Dr. Rampogal krishnan Dr. V. Rama subra- manian Dr. K. Abdul Ghafur Dr. M.A. Thirunarayanan</td>
<td>American Journal of Infectious diseases</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>14</td>
<td>Dr. Dorairajan Sureshkumar</td>
<td>Infectious Diseases</td>
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<td>In vitro activity of lipase-inhibitor in the era of NDM-1</td>
<td>Dr. Dorairajan Sureshkumar Dr. Ram Gopala krishnan Dr. M.A. Thirunarayanan</td>
<td>American Journal of Microbiology 3 2012</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>Dr. Manav Wadhawan</td>
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<td>Cytomegalovirus In- fection: Its Incidence and Management in Cytomegalovirus- Seropositive Living Related Liver Transplant: Recipients: Single-Center Experience</td>
<td>Dr. Manav Wadhawan Dr. Subhash Gupta Dr. Neerav Goyal Dr. Karisangal R. Vasudevan Dr. Kausar Makki Dr. Reekita Davar Dr. Raman Sardana Dr. Nand Lal Dr. Ajay Kumar</td>
<td>Liver Transplant December 2012</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>Dr. R. N. Makroo</td>
<td>Transfusion Medicine, Molecular Biology, Transplant immunology</td>
<td>Delhi</td>
<td>Hepatitis B core antibody testing in Indian blood donors: A double edged sword!</td>
<td>Dr. R. N. Makroo Dr. Mohit Bhalia Dr. Aakanksha Bhatia Dr. Bhavana Arora N. L. Rosamma</td>
<td>Asian Journal of Transfu- sions Science January-June 2013</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>17</td>
<td>Dr. R. N. Makroo</td>
<td>Transfusion Medicine, Molecular Biology, Transplant immunology</td>
<td>Delhi</td>
<td>Rapid prenatal diagnosis through fluorescence in situ hybridization for preventing aneu- ploidly related birth defects</td>
<td>Dr. Ashish Fauzdar Dr. Mohit Chowdhry Dr. R. N. Makroo Mr. Manoj Mishra Ms. Priyanka Shrivastava Ms. Preeti Bhadouria Dr. Anita Kaul</td>
<td>Indian Jour- nal of Human Genetics Jan-March 2013</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<th>Recom- mendations of the Committee</th>
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<tr>
<td>18</td>
<td>Dr. Raju Vaishya</td>
<td>Orthopedics and joint replace ment surgery</td>
<td>Delhi</td>
<td>All-Polyethylene Tibial Implant in young Active Patients</td>
<td>Dr. Vaishya Raju</td>
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<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>19</td>
<td>Dr. Raju Vaishya</td>
<td>Orthopedics and joint replace ment surgery</td>
<td>Delhi</td>
<td>Pain management in Total Knee Replace- ment</td>
<td>Dr. Vaishya R Dr. Majeed A.</td>
<td>Apollo Medicine December 2012</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>20</td>
<td>Dr. Raju Vaishya</td>
<td>Orthopedics and joint replace ment surgery</td>
<td>Delhi</td>
<td>Hip Resurfacing Arthroplasty in inflammatory Arthritis</td>
<td>Dr. Vaishya R</td>
<td></td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>21</td>
<td>Dr Shwendum Prosad Roy</td>
<td>Orthopedics</td>
<td>Delhi</td>
<td>Efficacy of intra- articular tranexamic acid in blood loss reduction following primary unilateral total knee arthro- plasty</td>
<td>Dr. Shuvendu Prosad Roy Dr. U. F. Tanki Dr. A. Datta Dr. O. N. Naji Dr. S. K. Jain</td>
<td>Knee surg sports traumator Arthrosc; 15 March 2012</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>22</td>
<td>Dr. Tarun Sahni</td>
<td>Internal and Hyperbaric Medicine</td>
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<td>Use of Hyperbaric Oxygen therapy in management of Orthopedic Disor- ders</td>
<td>Dr. Tarun Sahni Dr. Shweta Aggarwal</td>
<td>Elsevier Apollo Medi- cine Journal, Orthopedics: Dec 2012</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>23</td>
<td>Dr. Subhash Gupta</td>
<td>Pediatric Gastroen- terology and Hepatology</td>
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<td>Post transplant biliary complica- tions: an analysis from a predominantly living donor liver transplant center</td>
<td>Dr. Manav Wadhawan Dr. A Kumar Dr. S Gupta Dr. R Sandil Dr. S Taneja Dr. A Sibal</td>
<td>Journal of gastroen- terology and Hepatol- ogy, 22nd Feb 2013</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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<td>Dr. C. Chandra sekhar</td>
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<td>Cholesterol Emboli Syndrome: Acute Renal Insufficiency After a Procedure or a Thrombolytic Therapy or Antico- agulant Therapy</td>
<td>Dr. C Chandra Sekhar Dr. Parveen Jindal Dr. V. Guru Karna Dr. Manoj Aggarwal Dr. Soma Sekhar</td>
<td>Indian Jour- nal of Surgery September 2012</td>
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<td>Dr. AVS Suresh</td>
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<td>Stem-cell therapy in medicine-how far have we come and what we can expect?</td>
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<td>Dr. M Peeters Dr. A H Strickland Dr. M Lichinister Dr. AVS Suresh Dr. M Ganikahs Dr. J Shapiro W. Dr. Rogwski Dr. X Huang Dr. B Wu Dr. D Warner Dr. R Jain Dr. N C Tebbutt</td>
<td>Br J Cancer January 2013</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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List of Published Papers recognized in 2013 - Apollo Group Consultants

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<td>CD 23, Total IgE and TH1/TH2 cytokines in asthma patients</td>
<td>Dr. V. Sathaiah Thotapuri</td>
<td>International journal of pharmacy and pharmaceutical sciences March 2012</td>
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<td>Dr. Sudipta Sekhar Das</td>
<td>Transfusion Medicine</td>
<td>Kolkata</td>
<td>Managing uncontrolled post-splenectomy reactive thrombocytosis in idiopathic thrombocytopenic purpura: Role of thrombocytapheresis</td>
<td>Dr. Sudipta Sekhar Das, Dr. Soumya Bhat-tacharya, Dr. Subrata Sen</td>
<td>Transfusion and Apheresis Science February 2013</td>
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<td>Dr. Sudipta Sekhar Das, Dr. R. U. Zaman, Dr. Mohit. Safi</td>
<td>Asian Journal of Transfusion Science February 2013</td>
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<td>Dr. M. K. Goenka</td>
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<td>Glue for Sealing Internal Pancreatic Fistula in a Patient with Liver Cirrhosis: A Useful Technique</td>
<td>Dr. Mahesh Kumar Goenka, Dr. Ashish Kumar Jha, Dr. Nisha Kapoor, Dr. Usha Goenka</td>
<td>JOP: J Pancreat Oncoline 2012 May 10; (13):292-295</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>Dr. Ashish K. Jha, Dr. Dal C. Kumawat, Dr. Yasvant K. Bola, Dr. Mahesh K. Goenka</td>
<td>Journal of Clinical and Experimental Hepatology September 2012 Vol. 2 No. 3 224-228</td>
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<td>Demographic profile of hand injuries in an industrial town of north India: A review of 436 patients</td>
<td>Dr. Ashish Gupta, Dr. Ashish K Gupta, Dr. Sanjeev Upal, Dr. Rajinder Mittal, Dr. Ramnesh Garg, Dr. Nithanka Aggarwal</td>
<td>Indian Journal of Surgery June 2012</td>
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<td>Department of Medicine</td>
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<td>Methothreolate-Induced Liver Cirrhosis in a Patient of Psoriasis</td>
<td>Dr. Gurcharan Avasthi, Dr. Prashant Bhatt, Dr. Jagdeep Singh</td>
<td>Journal of Association of physicians of India May 2012</td>
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<td>Dr. Manpreet Singh Salooja</td>
<td>Cardiothoracic and Vascular Surgery</td>
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<td>Pulmonary Embolectomy With Use Of Pediatric Bronchoscope For The Detection Of Residual Emboli: An Innovative Surgical Technique</td>
<td>Dr. Manpreet Singh Salooja, Dr. Kishore C. Mukherji, Dr. Arupam Mitra, Dr. Maninder K. Singla, Dr. Sonia Sanjila, Dr. Sanjukta Parmanik, Dr. Pardeep Kaur</td>
<td>Indian Journal of Cardiothoracic And Vascular Surgery (IJTCVS) January 2013</td>
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<td>36</td>
<td>Dr. Krishnan Swaminathan</td>
<td>Endocrinology</td>
<td>Madurai</td>
<td>Pancreatic Diabetes: An Indian Perspective</td>
<td>Dr. Krishnan Swaminathan, Dr. Rajesh Prabhu</td>
<td>The British Journal of Diabetes and Vascular Disease November 2012</td>
<td>Rs. 15,000/- and Citation by the Chairman</td>
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<td>37</td>
<td>Dr. Krishnan Swaminathan</td>
<td>Endocrinology</td>
<td>Madurai</td>
<td>Refractory hypoglycemia in diabetes: A quinolone link</td>
<td>Dr. Krishnan Swaminathan, Dr. Keertigya vidi</td>
<td>The British Journal of Diabetes and Vascular Disease November 2012</td>
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<td>38</td>
<td>Dr. Anuradha Khadilkar</td>
<td>Pediatrics</td>
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<td>Body fat reference percentiles on healthy affluent Indian children and adolescents to screen for adiposity</td>
<td>Dr. AV Khalidkar, Dr. Sanwalka NJ, Dr. Chiplonkar SA, Dr. Khadilkar W, Dr. Pandit D</td>
<td>International Journal of Obesity (Londl) January 2013</td>
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<td>Dr. Vaman Khadilkar</td>
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<td>Relationship between body mass index, fat distribution and cardiometabolic risk factors in Indian children and adolescents</td>
<td>Dr. Khadilkar W, Dr. Khadilkar AV, Dr. Chiplonkar SA</td>
<td>Pediatric Obesity August 2012</td>
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<td>Dr. Smita Joshi, Dr. Sankaranarayanan, Dr. Richard Munsengi, Dr. Vinay Kulkarni, Dr. Thara Somanath, Dr. Uma Divate</td>
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<td>Dr. Nina Mansukhani, Dr. Johhi Uturu, Dr. Meenakshi Dual, Dr. Reeta Darbar, Dr. Sonia Maliki, Dr. Solani Verma, Dr. Sonal Bathla</td>
<td>Journal of Midwifery Health January- March 2013</td>
<td>Rs. 10,000/- and Citation by the Chairman</td>
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Clinical Fellowships of AHERF

Apollo Hospitals Education and Research Foundation (AHERF) is a not-for-profit registered organisation established in the year 1992. AHERF aims at promoting and supporting education, training and research activities in the quest of quality health care. Through its various educational institutions across the country, it offers an array of Master’s, Baccalaureate, Fellowship, Diplomas, and Certificate courses in Medical and Health Sciences, Hospital and Healthcare Management disciplines. In addition to educational and research activities, AHERF continues to establish and strengthen strategic partnerships with national/ internationally renowned institutes/ universities and hospitals in India and abroad in the interest of developing innovative collaborative educational and research programmes. The unique goals of the AHERF remain improvement of standards of medical care and promoting and pioneering innovative steps for further progress of medical science.

In 2013, AHERF started to grant Clinical fellowships of one year duration in various disciplines to qualified medical professionals. These fellowships are offered in those specialties where no or limited training programs exist in India.

**S. No.** | **Speciality** | **Qualification** | **Fellowship**
--- | --- | --- | ---
1. | Neurology | MD/DNB (SS*) DM/DNB (SS*) | i. Fellowship in Stroke ii. Fellowship in Neuro-Muscular Disorders
2. | Nephrology | MD/DNB DM/DNB (SS*) MD/DNB | i. Fellowship in Clinical Nephrology ii. Fellowship in Transplant Nephrology iii. Fellowship in Renal Dialysis
3. | Obs & Gynae | MD/DNB | i. Fellowship in IVF ii. Fellowship in Fetal Medicine
4. | Endocrinology | MD/DNB | Fellowship in Diabetes
5. | GI Surgery | MCh/DNB (SS*) | Fellowship in Liver Transplantation (duration 2 years)
6. | Hepatology | DM/DNB (SS*) | Fellowship in Hepatology
7. | Anaesthesiology | MD/DNB | i. Fellowship in Liver Transplant Anaesthesia ii. Fellowship in Cardiac Anaesthesia
8. | Gastroenterology | MD/DNB | Fellowship in Endoscopy
9. | General Surgery | MS/DNB | Fellowship in Bariatric Surgery
10. | Medicine | MD/DNB | Fellowship in Pain Medicine
11. | Microbiology | MD/DNB | Fellowship in Molecular Biology

**AhERF Clinical Fellowships is offered in the following specialties:**

In 2013, AHERF approved Clinical Fellowships in the following specialties at various locations of Apollo Hospitals Group:

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<td>Liver Transplantation**</td>
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<td><strong>Total number of Clinical Fellowships approved</strong></td>
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**Duration of Fellowship in Liver Transplantation is 2 years**

Apollo Medicine Journal

"Apollo Medicine Journal", the official journal of the Apollo Group is being published in collaboration with Elsevier in both print and electronic formats. Apollo Medicine Journal (ISSN No 0976-0016) has been conceptualized with the idea of providing a platform for researchers as well as clinicians ever since its inception in September 2004.

The journal has a panel of approximately 108 reviewers and is published quarterly (March, June, September and December) and is distributed to all consultants of Apollo Group, medical colleges and various subscribers around the world. Current and previous issues of the journal can be accessed at www.apollomedicaljournal.net

The published work in this journal is now visible and acknowledged globally as the journal is indexed on Science Direct, world’s largest and leading medical sciences portal for educational institutions, libraries and hospitals. All articles are now peer reviewed and we have also applied for Scopus. The revised editorial board has on board eminent International and National faculty members. The Journal invites articles from outside Apollo and approximately 30 outside articles are in production for the coming issues. The page views of AMJ website depicted a significant

THE REVISED EDITORIAL BOARD HAS ON BOARD EMINENT INTERNATIONAL AND NATIONAL FACULTY MEMBERS. THE JOURNAL INVITES ARTICLES FROM OUTSIDE APOLLO AND APPROXIMATELY 30 OUTSIDE ARTICLES ARE IN PRODUCTION FOR THE COMING ISSUES.
growth of 118% from Jan 2013 to Dec 2013. In June 2013, India has seen the maximum page views of 471, followed by United States (197) and Great Britain (60). There has been contribution of manuscripts from U.S, China and Egypt in the last six months. Apollo Medicine is now available on Health Advance – A Mobile application to download and read the whole journal. Apollo Medicine is registered with COPE (Committee on Publication Ethics) and each manuscript is checked for Plagiarism. New Sections have been added: Algorithms, Interesting Rare Case Pictures, Online CME, etc. Apollo Medicine is now also available on yearly subscription. Apollo Medicine Journal has been approved and included in the Directory of Open Access Journals (DOAJ).

Apollo Medicine Journal Issues:
38 issues have been published so far and from Dec 2013 onwards it’s non theme based.

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AHERF

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.

About AHERF
AHERF spearheads research dedicatedly for the Apollo Hospitals group. The Apollo Hospitals Educational and Research Foundation (AHERF) is an autonomous organization recognized by the Department of Scientific and Industrial Research (DSIR) as a “Scientific and Industrial Research Organization (SIRO)”, to carry out research, educational and training programs in the quest of quality health care.

AHERF undertakes and promotes scientific and medical research programs that have a bearing on the health, social, economic and industrial needs of India. AHERF leverages the strength of the Apollo Group of Hospitals, which lies in its competent clinicians and clinical researchers, a large number and variety of patients, state-of-the-art diagnostic and therapeutic technologies and an excellent medical records system.

The foundation aims to strengthen Apollo Hospitals in its quest for excellence in providing healthcare solutions to patients such that healthcare is more effective, affordable and accessible.
a single point of contact (SPOC) for the pharmaceutical, biotechnology, medical device and innovator organizations when it comes to undertaking clinical studies for outcomes, technology/ therapy validation and co-development of intellectual property.

Work Scope
AHERF works across a diverse set of focus areas namely – Drug trials, Device and software validation studies and co-development, basic and translational research, public health studies and healthcare innovation through creative collaborations.

Translational Research
Bio-Banking and Personalized Medicine
Apollo Hospitals is committed to translating research into clinical outcomes for patient benefit. With this aspiration, Apollo Hospitals recently incubated and launched Sapien Biosciences within AHERF’s facility in Hyderabad.

Sapien Biosciences is currently in the process of creating a world class bio-bank comprising of high quality ethically consented human tissues and its associated data in a state-of-the-art, proprietary database. This shall greatly facilitate the discovery of new treatments and the prosecution of new and known therapeutic pathways for national and international investigators.

Sapien shall fulfill our vision of delivering better clinical outcomes through bench-to-bedside innovation by offering personalized medicine services to Apollo Hospitals. The company shall leverage pathological data to develop high-end diagnostics for various diseases and shall also provide genetic risk assessment tools. It also intends to bring to patients specific gene-based diagnostic panels for cancer, diabetes and ophthalmology ailments to transform the diagnosis and treatment regimens. These developments shall drive transformation from reactive to preventive healthcare management amongst patients.

Sapien has launched its first and novel personalized medicine diagnostic test “My Platelet” at Apollo Hyderabad. Roll out to other Apollo centres are in progress.

So far, Sapien has rolled out its first personalized medicine assay called “My Platelet” at Apollo Hospitals Hyderabad to determine patient’s response to their blood-thinning medication and support decision-making by the cardiologists to personalize therapy for better outcomes. This is the only test in India that combines both genetic and platelet function response to enable tailored anti-platelet therapy for each patient. In 4 months, around 60 diagnostic tests have been undertaken and the same test is likely to be rolled out in other locations starting with Bangalore and Bhubaneswar.

Further, Sapien is all set to introduce a first clinical genomics test for the eye at Apollo across major hospitals in February 2014, which will allow differential diagnosis amongst patients. Subsequently a robust pipeline is planned across the year to introduce genetic tests in oncology, cardiology and diabetes. These tests will either fall in the category of predictive risk assessment of disease or under the category of clinical genomics for differential diagnosis and better disease management. Sapien is engaged with the best technology partners existing in India and the west.

Glioblastomas
Glioblastoma multiforme [GBM] is the most aggressive malignant primary brain tumor in humans. Based on the World Health Organization (WHO) diagnosis criteria, histopathological assessment thus far is considered the gold standard for identification of brain tumors. However, the diagnosis procedure is not always precise due to substantial inter-observer variation, heterogeneous nature of tumors and complications arising from invasive cerebral biopsy, which are around 10% of total biopsies.

AHERF is in the process of developing a circulating biomarkers (CBMs) based diagnostic panel for detection and screening of glioblastomas (GBMs) directly from the blood. This technology is based on the principle that CBMs levels are increased in GBM patients, which are quantifiable using the existing molecular diagnostic technologies. So far, a pilot study has been conducted with encouraging results leveraging which AHERF shall soon commence a larger study to realize the path breaking biomarker.

This minimally invasive technology enables gaining information about the GBM profile without the need of an invasive biopsy. Further, this panel can also be used for real time monitoring of GBM post surgery for any cases of metastasis.

The benefits that could accrue from this project are multifaceted:
1. Development of a blood-based diagnostic panel obviating the need for biopsy especially in inaccessible GBM patients where the risk of biopsy is 10%.
2. Establishment of additional diagnostic panels for GBM diagnosis using tissue biopsy.
3. Exosome-enabled diagnostics are also potentially applicable to other diseases or medical conditions where genetic testing is beneficial, but access to tissue is difficult. Examples include neurological diseases, muscular disease, kidney disease, diabetes, and other metabolic diseases.
4. Publications, which will help filing a full-scale DSIR certification to avail customs duty exemption.
Basic Research
AHERF has undertaken multiple basic research projects that have significant potential in the area of diagnostics and prognostics for better management of disease in patients.

Genetic association of Coronary Artery Disease in Young Indian Adults
A pilot collaborative study with AHERF and Institute of Genomics and Integrative Biology (IGIB), a CSIR Institution and National Institute of Biomedical Genomics (NIBMG), a DBT Institute, was completed to study genetic risk factors in young Indians that may be associated with early incidence of coronary artery disease in young Indians.

A total of 109 MI patients (92 males) and 101 healthy controls (76 males) fulfilling inclusion and exclusion criteria were recruited for the study from Chennai, Delhi, Hyderabad and Ahmedabad. The statistical quality control analysis performed at NIBMG revealed high quality data and included 189 individuals for analysis. Although none of the SNPs showed statistically significant differences between patients and controls, highly interesting data was generated. Among the 10 genetic markers, which showed the highest significant association, some are located close to known markers for various CVD risk factors such as obesity. Two of the significant SNPs are in non-coding RNA, which has gained importance because their roles in many diseases have been clearly elucidated.

consecutive replication studies. The vast amount of data is being subjected for the pathway analysis by Genome Wide Association Studies (GWAS). Once the above analysis is completed, a full fledged study to establish a genetic pre-disposition is likely to be explored further.

Pathogen detection and discovery, using High Throughput Platforms
In collaboration between International Centre for Genetic Engineering and Biotechnology (ICGEB), AHERF, and Kalawati Saran Children’s Hospital, New Delhi, the RVP Fast Tag technology was evaluated to detect novel viral pathogens from patients with respiratory disease. Using this state-of-the-art technology to assess the prevalence of various respiratory pathogens in Indian hospitals with different socio economic backgrounds. Ninety three (93) paired nasal (NS) and nasopharyngeal (NP) samples were tested and eight respiratory viruses were detected. The frequency of detection was as follows: Rhinovirus in 54, Influenza B virus in 49, Bocavirus in 38, Parainfluenza 4 in 29, Respiratory syncitial virus and Parainfluenza 3 in 8 each, Coronavirus in 2 and Influenza A in 1.

These results were confirmed using a multiplex polymerase chain reaction, thereby validating the usefulness and reliability of X-tag assay. The newly identified polyomaviruses associated with acute respiratory infections WU and KI which have not been so far reported in India were isolated in 63 and 32 of the 200 samples.

Epidemiological research
Prevalence of Non-Alcoholic Fatty Liver Disease (NAFLD) in school children (5-10 years)
This ICMR funded study jointly conducted by AHERF and INCLEN intends to study the prevalence of NAFLD amongst children in the age group of 5-10 years who are either overweight, obese or normal weight and the association of this prevalence with insulin resistance and other metabolic syndrome. The cross-sectional study screened 5055 students from 21 randomly identified Delhi schools were initially included for screening, of which 1108 students were excluded based on exclusion criteria. Of the final sample size of 3947, ultrasound was performed in 706 children after obtaining consent from their parents. Detailed evaluation including blood tests could only be performed in a subset of these children. 15% of the children were overweight/obese and 5% of the children were obese while 30.1% of children were overweight. While 9.2% of all children were found to be hypertensive, 22.4% of children (25.6% of boys and 19.5% of girls) had fatty liver on ultrasound; this was found in 8.5% of normal weight and 45.6% of overweight/obese children. Among children with fatty liver disease, 8.1 % had metabolic syndrome.

The study findings are being submitted for joint publication. This study is the first to explore the issues on non-alcoholic fatty liver disease in Indian children and the association with metabolic derangement. There is no report from India on fatty liver disease in children. This study provides knowledge based on: Fatty liver disease is not uncommon in children and about 18% of children with normal BMI have evidence of fatty liver disease on USG. Low HDL, hypertriglyceridemia and hyperglycemia are commonest metabolic derangements in children with fatty liver. High BMI and severe fatty liver disease have higher association with metabolic derangement and metabolic syndrome. About 18% of the children are hypertensive and a sizeable proportion of overweight have hypertension. There is lack of appropriate cut off levels for metabolic parameters for Indian children and there is lack of consistency in results using different metabolic syndrome criteria. About 18% of the children are hypertensive and a sizable proportion of overweight have hypertension. The manuscript is under process of preparation.

Rural health camps at Gandhigram
In collaboration with Kasturba Hospital, Gandhigram (KHG) AHERF has been providing standard healthcare facilities to a population of the 300 villages in and around Gandhigram Trust, Madurai District. As part of this effort, medical camps, tele-medicine consultations and awareness programs were organized for Gandhigram staff and public from Apollo Specialty Hospitals, Madurai. An ultra sonogram was donated to the hospital.

The healthcare screening camps were conducted in the rural area covered by Gandhigram Trust. Out of the 6714 persons screened, 6286 were examined, in whom height and weight...
Prevalence of anaemia and obesity at Sivagangai

AHERF, Chennai in collaboration with Apollo Specialty Hospital, Madurai, Mother Theresa Education and Charitable Trust (MTEC), an NGO based at Sivagangai and District Collector’s Office at Sivagangai, Tamil Nadu, undertook a study to evaluate incidence and prevalence of anaemia among adolescent girls and adult women in the Sivagangai District, Tamil Nadu, Southern India.

A total of 10,104 adolescent girls aged between 10-19 years were included in the study. BP measurement was recorded in 65% and blood sugar levels were done for 59% of participants. X-rays were done for 229 and ECG for 299 of the subjects. Telemedicine consultation was provided to 55 subjects. Telemedicine consultations by relevant specialists were provided wherever necessary through Apollo Hospitals, Madurai.

The mean values for all parameters were statistically different between the two genders for all analysis except Mean Corpuscular Volume (MCV). However, the magnitude of the difference was small. Larger differences were observed for the following parameters for which separate reference intervals for the two genders must be considered in clinical decision making. Haemoglobin, Packed cell volume (PCV), Erythrocyte Sedimentation Rate (ESR), Serum Creatinine, Uric acid, High Density Lipoproteins (HDL), triglycerides and gamma glutamyltranspeptidase (GGTP). ESR values were almost 3-fold higher in females than males (4-55mm/hr (F) Vs. 2-22 (M) mm/hr). and the ULN was elevated almost 2-fold as compared to reporting ranges. The reference interval established by our study differed from the currently used reference values. Gender based partitioning is required for haemoglobin, packed cell volume, ESR, high density lipoprotein (HDL), triglycerides, serum creatinine, serum uric acid, and GGTP. Further community based studies are required to validate these findings and make definite recommendations.

The findings of this study were formally released by Dr. V. M. Katoch, Director-General, Indian Council of Medical Research (ICMR) on March 9th, 2010 in the presence of the Chairman, Apollo Hospitals Group, Dr Prathap C Reddy. The study outcome is published in Indian Journal of Clinical Biochemistry in July 2013 (Springer Publications).

Abnormal blood lipids and glucose levels among healthy Indian population

A retrospective multi-centric cross-sectional study was conducted on 9842 healthy individuals from four Apollo Hospital centres at Ahmadabad, Chennai, Hyderabad and New Delhi. The study was aimed to identify and collect the data of the persons with abnormal lipid profile and blood glucose levels among healthy Indian population who visited Apollo Hospitals for a preventive health checkup program; and to assess the persons at risk of developing cardiovascular disease. ATP III guidelines were used for lipid and lipoprotein classification as normal and abnormal. The study revealed that overall 22% of the population showed high cholesterol, 38% low HDL cholesterol, 14% with high triglycerides. Similarly, elevated levels of fasting glucose and 2 hr. post glucose were also observed in 20% of the population. The manuscript is submitted for publication.
Clinical Research

AhERF is India’s first and single largest site solutions organization (SSO) having experience of coordinating conduct of over 750 clinical trials across 11 locations in various therapeutic disciplines over the last 14 years. With the current strength of almost 80 certified and experienced Clinical Research Coordinators and 200 Principal Investigators on its panel across 15 sites, AhERF ensures ethical conduct of clinical research across the hospital group. AhERF conducts phase II, III and IV clinical trials, of which 80% are global multi-centric trials.

AhERF has established a benchmark in terms of ethics compliance and standards across its sites. For multi-centric trials, AhERF has established a central ethics committee which is registered with the national regulatory agency to comply with the requirement and Office of Human Resource Protection (OHRP), US Department of Health whilst its institutional ethics committees at Chennai and Hyderabad are also OHRP registered. AhERF also has built an in-house capability in ethics and quality assurance for clinical trials across multiple sites.

The Institutional Ethics Committees in all the 11 Apollo Hospital locations are registered with the Drug Control General of India (DCGI). AhERF currently is coordinating the conduct of almost 100 clinical studies across Apollo hospitals.

India is currently witnessing a reform process in clinical trials regulation and this has slowed down the approval of clinical (drug) trials for phase 2 and 3 trials particularly. In these circumstances, AhERF has taken on the role of championing Ethics in clinical research. AhERF set out to spearhead ethics across stakeholders through a series of strategically important conferences and meetings. AhERF organized the first ever meeting of chairs of the ethics committee and ethicists who clear clinical trials to discuss the current state of affairs. The conference was well attended with distinguished delegates from across 20 institutes, which included All India Institute of Medical Sciences, Nls, Fortis, JNU and other leading organizations. The proceedings have been submitted to ICMR with recommendations.

In April 2013, AhERF organized a first-of-its kind “National Conference on Evolving roles of Ethics Committees in Clinical Research” at New Delhi. The conference witnessed significant participation by speakers, panelists and delegates from the industry, academia and the Government. The conference was organized with an objective of increasing awareness, aligning all stakeholders on current state, discussing and identifying key changes required on the regulatory and industry front, identifying responsibility amongst stakeholders and charting out the roadmap to strengthen ethical conduct of clinical research in India. Subsequently, Dr. Ranjit Roy Chaudhary, Advisor AhERF & Chairman Research Task Force, Apollo Hospitals was selected as the Chairman for the committee drafting the recommendations.
for changes in the regulations related to clinical trials. Following the Dr. Roy Chaudhary committee recommendations, AHERF organized a conference in partnership with AIIMS, India’s premiere government institution and Harvard to discuss the implementation challenges and solutions at New Delhi in Jan 2014. The recommendations from this conference shall be submitted to the Government of India shortly.

Non-Drug Clinical Studies
AHERF is working closely with domestic and global pharmaceutical and biotechnology companies to bring in observational/post-marketing studies. This scenario will help to reduce dependence on drug trials and commence Investigator Initiated research studies at Apollo Group.

- Two first-of-its-kind observational studies on Hypertension led by Padmasree Dr. Venkat Ram as a principle investigator are expected to be conducted at Apollo Hospitals shortly. Both the studies envisage conducting the study across 130 sites with patients numbering between 500-1200. The magnitude of the study envisages AHERF to manage the studies across Apollo hospitals and external sites as well. The studies involve correlation of the 24 hours ambulatory blood pressure monitoring (ABPM) and home blood pressure monitoring (HBPM) versus office blood pressure monitoring (OBPM) for measuring and monitoring blood pressure in clinical practice and are being reviewed by the Institutional Ethics Committees for recommendation. The studies are likely to commence from April/May 2014.

- Under the advisory expertise of Dr. Venkataraman – Senior Consultant Diabetology, AHERF is working towards developing the documents for a study to evaluate the new low dose FDC versus the standard FDCs as Oral Hypoglycemic Agents (OHA) in Type II diabetes patients. The documents will be sent for Ethics Committee review once the protocol is finalized.

- A Medtronic sponsored research study to assess the prevalence of Abdominal Aortic Aneurysm (AAA) in patients with cardiovascular risk by USG screening is initiated with Dr. Balaji – Vascular Surgeon as the Principal Investigator. The study will aim to enrol 500 CVD risk patients in one year. The outcome of the study will provide better understanding of AAA pathophysiology and clinical decision making.

- Antimicrobial resistance is a growing medical concern and has far reaching consequences both for patient and healthcare outcomes. Many observational studies are being conducted in Infectious Diseases department of the Apollo Hospitals to assess the drug resistance effect of newer antibiotics as mono therapy or as combination therapy versus the existing standard of care practice in patients with various gram positive and gram negative infections. The outcome of the studies will help to define the clinical success, reduced mortality/morbidity, treatment pattern, dose, duration and use for specific pathogens on completion of the study. The studies with Dr. Abdul Ghafur as Principal Investigator sponsored by Astra Zeneca and Glenmark are currently underway. Further, studies with Dr. Ramasubramanian as Principal Investigator sponsored by MSD and Fortil are expected to initiate by March 2014.

Research Grants Program
To promote investigator driven clinical research within the Apollo Hospitals Group, AHERF has been actively facilitating the program with Apollo Hospitals Group. 25 research projects developed by Apollo clinicians across the country were approved and awarded a sum of Rs 50,000 each as Entrepreneurship Grant. AhERF is working closely with Venkataraman – Senior Consultant Diabetology, AhERF is working with Padmashree Dr. Venkat Ram to bring in observational/post-marketing studies. This scenario will help to reduce dependence on drug trials and commence Investigator Initiated research studies at Apollo Group. AhERF has completed conducting the first two phases of the study to validate the software algorithm and to assess the CVD.

AFL has innovated a technology, capable of detecting a range of cardiac abnormalities by a simple non-invasive mechanism. Their Cardio -Analysis technology has potential to quickly detect and even predict cardiac conditions beyond what a standard ECG analysis can provide. AhERF has completed the first two phases of the study during which the AFL algorithm was trained on normal volunteer subjects followed by a blinded assessment using high resolution Electrocardiogram (hrECG) collected on patients and normal subjects analyzed by AFL cardio analysis to diagnose CAD. The final extension phase study is anticipated to start by end of Feb 2014, which will be a blinded assessment using hrECGs collected on subjects and analyzed by AFL cardio analysis.

THE DOCUMENTS FOR A STUDY TO EVALUATE THE NEW LOW DOSE FDC VERSUS THE STANDARD FDCS AS ORAL HYPOGLYCEMIC AGENTS (OHA) IN TYPE II DIABETES PATIENTS.
The full-time one year Advanced Certificate Course in Clinical Research at PG level is now extended across five AHERF locations including new centres at Kolkata, Hyderabad and Ahmedabad.

AHERF SPEARHEADED AND REALIZED COLLABORATION WITH MEDTRONIC INC. WITH AN OBJECTIVE TO REVOLUTIONIZE RENAL CARE BY PROVIDING MOBILE DIALYSIS AT HOMES AND COMMUNITY CENTRES.

AHERF is in the process of partnering with Philips to nurture and support medical research and clinical development activities in the areas of clinical outcomes and translational research, medical education and health policy and payment that are relevant for the people of India. Through clinical excellence and meaningful innovation, the collaboration will work towards developing and managing an evidence-based clinical research effort to commence medical device innovation and validation studies that establish the pre-eminence of Apollo Hospitals and Philips Healthcare as a team that can enhance the health and well-being of the people of India. The Master Service Agreement is expected to be completed by Feb 2014 and creation of Investigator idea pipeline is in process.

Anna University Chennai, India: ‘Advanced Certificate Course in Clinical Research at PG level’ was jointly initiated in 2009 by AHERF and AU-KBC (Anna University-KB Chandrasekhar) Research centre of Anna University to meet the shortage of the clinical research professionals in the pharmaceutical industry and to bring out certified and trained Clinical Research professionals. In order to extend this joint program to other AHERF / Apollo Hospitals locations in India such as Delhi, Kolkata, Hyderabad, Bangalore and Ahmedabad etc., a MOU was signed between AHERF and AU on 19th July 2011 and the first two batches

Advanced Certificate Course in Clinical Research at PG level

In order to address the significant skill gap of over 50,000 clinical research professionals in India, AHERF commenced a post-graduate program in clinical research at its Delhi and Chennai centres in 2008. The full-time one year Advanced Certificate Course in Clinical Research at PG level is now extended across five AHERF locations including new centres at Kolkata, Hyderabad and Ahmedabad. The course is affiliated to Anna University, Chennai and the curriculum, student selection, faculty, assessment and certification is done uniformly across the centres and jointly with the guidance of the university.

A unique and unmatched feature of this course is an exclusive 6 months internship wherein AHERF students undergo an experience of observing diverse facets of coordinating a clinical trial under the guidance of primary clinical research coordinators in Apollo Hospital clinical trial centres. This ensures that the students from AHERF minimize their industry skill gap and are ready for working in the industry and government. AHERF has collaboration with Credila (subsidiary of HDFC) for educational assistance for financial support. Over 450 highly qualified clinical research professionals have been trained in 5 years through this course. Approximately 70 candidates have enrolled for this program for the academic year 2013-14. Prospective collaborations with leading clinical industry experts are in process. AHERF has contributed over 400 trained professionals to the industry, academia and government institutions. There has been over 90% placement of the graduates with multinational pharmaceutical companies, Clinical Research Organizations (CROs), KPOs, Hospitals, Apollo Hospital clinical trial centres, Pharmacovigilance and Data Management Centres.

AHERF is in the process of commencing short term week end executive program on Pharmacovigilance and Clinical Data Management shortly.

Collaborations

AHERF signed collaboration MoU with Medtronic Inc. in early 2013 to associate in the areas of research, development and validation of disease specific nutrition projects. The first proposal is being evaluated by the Apollo Clinical team and the study is shortly about to commence.

Medtronic: AHERF spearheaded and realized collaboration with Medtronic Inc. with an objective to revolutionize renal care by providing mobile dialysis at homes and community centres. Apollo Hospitals signed a MoU with Medtronic Inc. Under the partnership, Apollo will leverage the technology of Medtronic to provide haemodialysis under the affordable treatment services for end stage renal disease (ESRD) patients. The discussion on terms of agreement is in progress and the final agreement is expected to be completed by end of May 2014.
of Advanced Certificate Course in Clinical Research (ACCCR) were successfully completed at AHREF Pan India centres. The third Pan India batch classes commenced from Sept 2013 and are ongoing and the fourth batch is anticipated to commence from April 2014. In addition, AHREF is planning to launch weekend short term executive programs in Pharmacovigilance and Clinical Data Management shortly.

International Clinical Epidemiology Network (INCLEN): AHREF forged collaboration with INCLEN to strengthen epidemiological research at Apollo Hospitals. The ICMR sponsored research study on non-alcoholic fatty liver disease (NAFLD) is completed and AHREF is now working with INCLEN towards initiating joint projects in hypertension, child and maternal healthcare.

**Paraxel:**
AHREF is in final stages of discussion with Paraxel – World’s second largest Clinical Research Organization to place clinical studies across the Apollo Hospital locations. The Master Service Agreement is in progress and is expected to be completed by end of Feb 2014. This will help Paraxel to place over 20 India trials at Apollo Hospital sites.

**Collaborations in Pipeline:**
There are multiple potential collaborations being explored to be realized within the year 2014 across basic & clinical research, bio-banking and translational research and Innovations.

The following are some of the key collaborations with relevant focus areas:

1. Cleveland Clinic - Bio-Bank & Basic Research
2. Accenture - Clinical Research
3. George Institute for Global Health - Public Health
4. Samsung - Innovations
5. Bosch - Innovations
6. Tel Aviv University - Innovations

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**THE MASTER SERVICE AGREEMENT IS IN PROGRESS AND IS EXPECTED TO BE COMPLETED BY END OF FEB 2014. THIS WILL HELP PARAXEL TO PLACE OVER 20 INDIA TRIALS AT APOLLO HOSPITAL SITES.**
An Excellent Year

Our focus on excellence helped us reap unprecedented success in awards, accolades and recognition.
Eleven winners and 28 runners up in 10 categories won the coveted Asian Hospital Management Awards held on September 13, 2013 at Bangkok. The celebration was the culmination of the Hospital Management Asia Conference, attended by 880 delegates from 34 countries and 398 organizations. The Asian Hospital Management Awards recognize and honor hospitals in Asia that carry out best practices in hospital management. Now in its twelfth year, AHMA is the accepted hospital management awards program for the Asia Pacific region. Awards are given to hospitals in the region that, in the opinion of the judges and advisers, have implemented or enhanced outstanding and innovative projects, programs, and best practices during the previous year. HMA 2013 garnered 298 entries representing 78 hospitals from 13 countries.

The awards won were:

Corporate Social Responsibility Project
Apollo Hospitals – “Billion Hearts Beating Foundation”

Cost Reduction Project
Apollo Speciality Hospitals, Madurai – “To Control the expenses for CAG and PTCA Procedures.”

Human Resource Development Project
Apollo Hospital Hyderabad – “Apollo Simulation Laboratory”

Service Improvement for Internal Customers Project
Apollo Hospital Hyderabad – “Apollo Simulation Laboratory”

Patient Safety Project
Apollo Hospitals, Chennai – “Antimicrobial Stewardship Programme”

Clinical Service Improvement Project
Apollo Hospitals, Delhi – “Pressure ulcer: zero tolerance”

Customer Service Project

Bio Medical Equipment / Facilities Improvement Project
Apollo Gleneagles Hospitals, Kolkata – “Project Product: Severity Index Scoring For Biomedical Equipment”

Apollo Hospitals, Chennai - “Phasing out mercury”

Innovations in Hospital Management and Governance
Apollo Hospitals Dhaka – “Passion Led Patient Care”

Apollo Hospitals were the winners of 10 of these awards and won an award in 9 categories!

The organizers gave the Apollo Group a standing ovation by conferring Apollo with the “Special Outstanding Achievement Award”. They commended the Apollo Group for being an improvement oriented organization in view of the 71 improvement projects submitted by the Group and the number of awards won.
On 14 December 2013, our respected Chairman, Dr. Prathap Chandra Reddy was honoured with the prestigious Asian Business Leaders Forum Lifetime Achievement Award at a grand award ceremony in Dubai.

Dr. Prathap C. Reddy, Chairman, Apollo Hospitals Group was honored by CNBC TV18 at the India Business Leaders Awards (IBLA) 2013. Chairman is recognized as the architect of modern healthcare and the pioneer of corporate healthcare in the country. This award felicitated his lifetime’s efforts of transforming healthcare in India.

IBLA has been instituted to salute frontrunners who are ready to champion the change agenda; strong enough to rise and lead the nation forward. The event opened with the jury sharing their vision for 2014 and was followed by debates that detail the impact of economics, politics and business. The criteria of selection of winners across categories were to shortlist men and women who have the ability and the vision to rise above the current volatility and see the long term goal. They have a global aspiration – to put India on the world map.

Dr. Prathap C. Reddy, Founder and Chairman of the Apollo Hospitals Group was honoured with the Lifetime Achievement Award by NDTV.

Asia HRD Awards 2013
Apollo Hospitals was bestowed the award for ‘Contribution by HR to an Organization’ at the Asia HRD Awards 2013. The Apollo group was specifically recognized for the contribution to the HR community and the Health Industry. The award was given at the Asia HRD Congress in Jakarta. Apollo was the only organization recognized from India in the entire Asia Pacific Region.

THE WEEK-A C Nielsen, Best Hospital Survey 2013

THE WEEK-Nielsen best hospitals survey 2013 was conducted in 15 cities - Ahmedabad, Bangalore, Bhopal, Chandigarh, Chennai, Coimbatore, Delhi and NCR, Hyderabad, Jaipur, Kochi, Kolkata, Lucknow, Mumbai, Pune and Thiruvananthapuram from September to October 2013.

Best multi-speciality hospitals in various cities and best hospitals in various specialities from the survey were published in November 2013. Apollo Hospitals, Chennai was ranked the 2nd best, Indraprastha Apollo Hospitals, Delhi was ranked the 4th best and Apollo Hospitals, Hyderabad was ranked the 10th best multi-speciality hospital in the private sector in India.

THE EVENT OPENED WITH THE JURY SHARING THEIR VISION FOR 2014 AND WAS FOLLOWED BY DEBATES THAT DETAIL THE IMPACT OF ECONOMICS, POLITICS AND BUSINESS.

THE WEEK-Nielsen, Best Hospital Survey 2013
Indraprastha Apollo Hospitals, Delhi was ranked the best multi-speciality hospital in Delhi in the private sector.

Apollo Hospitals, Chennai was ranked the best multi-speciality hospital in Chennai.

Apollo Gleneagles hospitals was ranked the best multi-speciality hospital in Kolkata.

Apollo Hospitals was ranked the best multi-speciality hospital in Hyderabad.

Apollo Hospitals, Chennai was ranked the 2nd best and Indraprastha Apollo Hospitals, Delhi was ranked the 3rd best and Indraprastha Apollo Hospitals, Delhi was ranked the 8th best private hospital in India for Diabetology.

Apollo Hospitals, Chennai was ranked the 4th best private hospital in India for Oncology.

Apollo Hospitals, Chennai was ranked the 2nd best and Indraprastha Apollo Hospitals, Delhi was ranked the 3rd best and Indraprastha Apollo Hospitals, Delhi was ranked the 8th best private hospital in India for Diabetology.

Apollo Hospitals, Chennai was ranked the 4th best private hospital in India for Oncology.

FICCI Healthcare Excellence Awards 2013

The FICCI Healthcare Excellence awards that felicitate organizations and individuals for their contributions in the healthcare industry were given on 2nd September 2013.

• Prof. Ranjit Roy Chaudhury, Chairman, Apollo Hospitals Educational and Research Foundation, won the Lifetime Achievement Award.

• Apollo Hospitals Delhi won the FICCI Healthcare Excellence Awards 2013 in the category of Operational Excellence (Private – Multispecialty Hospital) for the project “Pressure Ulcers – Zero Tolerance”.

• Apollo Hospitals, Delhi won the first position in the Poster Presentation for “Minimizing Medication Errors”.

• Nominations of Apollo Hospitals Chennai, Apollo Hospitals Delhi and the Apollo Telemedicine Network Foundation were shortlisted as finalists.

Frost & Sullivan 5th Annual India Healthcare Excellence Awards 2013

Frost & Sullivan presented its 5th edition of the India Healthcare Excellence Awards 2013 on September 27, 2013 in Mumbai. Award categories spanned across various healthcare segments such as Pharmaceuticals and Biotechnology, Medical Technologies, Healthcare Delivery Services and Special Awards. Apollo Hospital Group won the award in the category of “Healthcare Service Provider Company of the Year” (With Annual Revenue greater than Rs 1000 Crores).

HIMSS Asia Pacific Recognizes Apollo Hospitals

HIMSS Analytics Asia Pacific recognized three hospitals within Apollo Group for achieving Stage 6 on the Electronic Medical Record Adoption Model (EMRAM) SM.

The hospitals are:

• Apollo Main Hospitals, Chennai
• Apollo Health City, Jubilee Hills
• Apollo Hospitals Ayanambakkam, Chennai

These Stage 6 hospitals were recognized at the HIMSS Digital Healthcare Week in Singapore, on 21 October 2013. The award was presented by Stephen Lieber, CAE President & CEO of HIMSS worldwide; in the presence of Dr. Amy Khor, Senior Minister of State for Health and Manpower, Ministry of Health and Ministry of Manpower, Republic of Singapore; Steven Yeo, Vice President & Executive Director HIMSS Asia Pacific and John Hoyt, Executive Vice President, HIMSS Analytics.

HIMSS Elsevier award for Apollo Hospitals

The first HIMSS Elsevier award for Outstanding ICT Achievement was presented to Apollo Hospitals Enterprise Ltd. The award was given to Apollo Hospitals for the Patient Engagement Platform (PEP) – Apollo Prism. The award is given in recognition of the exemplary effort, commitment and dedication to leveraging on healthcare ICT to transform patient care and outcome.

The award was presented at the HIMSS Digital Healthcare Week in Singapore, on 21 October 2013. The award was presented by Stephen Lieber, President and CEO of HIMSS worldwide and Gerrit Bos, Managing Director APAC, Elsevier.
Apollo emerged as the winner in the category - ‘Most Popular Paediatric Hospital Chain in the inaugural edition of Child Best Awards’, from the Child India magazine, a respected and widely circulated publication.

The magazine Child has been in India for 5 years now and is the Indian edition of America’s iconic parenting magazine - Parents. The polling for these awards was conducted as a reader’s poll, both through the magazine and also online. Thousands of discerning readers had voted and it is indeed an honour to be recognized as the most popular paediatric hospital.

**Asian Training & Development Awards**

Apollo Group participated in Asian Training & Development Awards in two Categories and were announced as winners in both the categories.

1. Best Training Initiative in Health Care (This encompasses all the Training Initiatives AAPIE, Tender Loving Care, Velvet Touch, Transforming your Telephone Experience, Enhancing your Shop Floor, Measure to Improve & Not Impress, Voice of Customer Training Module).

2. Best Customer Service Program (This encompasses the Service Culture Transformation workshop that was first kicked off in Apollo Future Leaders Development Program and also deployed in Chennai Region).

**Porter Prize, 2013**

Apollo Gleneagles Hospitals, Kolkata won the Coffee Table Winner’s Book of 2013 – Porter Prize in the Healthcare category.

**QIMPRO QualTech Prize**

Apollo Gleneagles Hospitals, Kolkata was awarded the Runners Up Prize for “The Reduce ALOS - Increase Productivity” Project and topped the Healthcare category.
OUR CONSULTANTS ACHIEVE

Protect the Priceless

Our consultants go the extra mile in their epic mission to protect what is priceless
Ahmedabad

Dr Chirag J Desai
GI, HPB & Liver Transplant Surgery, Apollo Hospitals, Ahmedabad

Chapters contributed to text books

Lectures

Positions held
Executive committee member, IHPBA - Indian Chapter, 2013 - 2015.

Dr Ketan Patel
Emergency Medicine, Apollo Hospital, Ahmedabad

Lectures
"Overcrowding in ED, is the 4hr target applicable to Indian scenario?”, 15th Annual conference of SEMI, EMCON 2013, Calicut, Nov-13.

Presentations
"Is early hypodense lesion in CT Brain, a falsality in TBI?”, ACEM 2013, Tokyo, Japan, Oct-13.

Dr Somesh Desai
Neurosurgery, Apollo Hospitals, Ahmedabad

Lectures

Dr. Tushar S. Lakhia
Surgical Gastroenterology, Minimal Access Surgery, Apollo Hospitals, Ahmedabad

Chapters contributed to text books

Lectures
Invited Faculty, Criticon Gujarat, October 2013
Organizing Faculty, Gastroscugon, December 2013

Apollo First Med Hospital, Chennai

Professor. Dr. R. A. Pandya Raj
General Surgery, Apollo First Med Hospital, Chennai

Awards
Awarded "The Fellowship of Royal College of Surgeons Glasgow”, 2013.

Dr. Divya Seshadri
Dermatology, Apollo First Med Hospital, Chennai

Publications

Prof. T. V. Devarajan
Internal Medicine, Apollo First Med Hospital, Chennai

Publications
Publications in the following journals:

Orations
Student Mr. Suresh Memorial oration on PUD in Madras Medical College.
Difficult fevers treated at Balaji Medical College - Crompet.

Lectures
International conference on Acute care, presented paper on cases of Infection due to sepsis.
International respiratory sepsis conference, presented a paper on CYSTS in the lung, Chennai.
Internal Chest conference at Pune, presented a paper on Chest Infection.
Lectures on IV antibiotic, Moscow & Sydney.

Positions held
President, IMA, Ambattur Avadi branch.
Chairperson, Simposium Pioglitazone, Tancanth.

Invited examinership
MBBS & MD examiner Dr. MGR University, Annamalai University, Pondicherry University, Madurai Kamarajar University.

Inspector for National Board of Examination for 1 year appointed by Ministry of Health.

Awards
Padma Shri awarded by Government of India given by honorable President of India in 2013.
Life time achievement award - Kilpauk Medical College - Chennai.
Life time achievement award - Lions club of India.
Life time achievement award - Eminent Prof of Medicine.
Life time achievement award - AVM Pondicherry.

Special Achievement
Started Advance Fever Clinic: First office of its kind in India for patients of undiagnosed fever more than 2 weeks. 62 cases have already been treated now.

Apollo Speciality Hospital, Chennai

Dr Srinivasan Ananth
Internal Medicine, Apollo Specialty Hospital, Chennai

Member of task forces of Government of India or State Governments
“Member of National Academy of Medical Sciences (India)”.

Positions Held
Consultant Physician NHS On Going, Norfolk & Norwich University Hospital.

Dr. Abdul Ghafer
Infectious Diseases, Apollo Speciality Hospital, Chennai

Chapters contributed to text books

Publications

A Ghafer, Superbugs and we intensivists: A time for introspection... JCCM, 2013; 17(3):125-126.

Abdul Ghafer, Call for global action to halt the superbug.MJA 2013;198 (5):251.


Lectures
Abdul Ghafer, Vidyalakshmi, Priyadarshini, Thirunarayan. An obituary to antibiotics- Emergence of pan drug resistance amongst Gram negative bacteria, CIDSCON 2013.
A Ghafer, Chennai declaration - An achievement in creating an attitude change, ID week San Francisco 2013.

Abdul Ghafer, Vidyalakshmi, Priyadarshini, Thirunarayan. Fosfomycin - promising option in the era of NDM - 1 - The first invivro data from India. ICAC 2013 Denver, No 911.
Abdul Ghafer, Vidyalakshmi PR, Chandra K, Successful implementation of an infection control programme in a tertiary care oncology centre from a developing country, P262, ICPIC June 2013, Geneva.
A Ghafer, Vidyalakshmi, Chandra, Sahaya, Priyadharshini, Increasing needle stick injuries amongst the radiology team-needs attention!, P297, ICPIC June 2013, Geneva.
Abdul Ghafer, Vidyalakshmi PR, Ashwini, Chandra, Pushparaju, Call for joint effort to tackle Gram negative resistance.

Abdul Ghafer, Vidyalakshmi PR, Ashwini, Chandra, Pushparaju, Call for joint effort to tackle Gram negative resistance.

A Ghafer, Vidyalakshmi, Chandra, Sahaya, Priyadharshini, Increasing needle stick injuries amongst the radiology team-needs attention!, P297, ICPIC June 2013, Geneva.

Abdul Ghafer, Vidyalakshmi PR, Ashwini, Chandra, Pushparaju, Call for joint effort to tackle Gram negative resistance.


Abdul Ghafur, Priyadarshini, Vidyalakshmi PR, “Clinical Profile Of Carbapenem Resistant Bacteraemia Among Paediatric Population - First Clinical Study From India”, A-534-0002-01455 entitled at the 31st Annual Meeting of the European Society for Paediatric Infectious Diseases, May 28 - June 1, 2013- Milan, Italy.

Abdul Ghafur, Vidyalakshmi P R, Priyadarshini, Thirunarayan M A.

Fosfomycin, a promising option in the era of NDM1- The First In Vitro Data From India. ICAAC September 2013.


A Ghafur, “Chennai Declaration”-An Indian initiative to tackle antimicrobial resistance, ICAAC September 2013, Denver, USA.

A Ghafur, Meet the professor: ICAAC September 2013 Denver, USA along with Dr Otto cars, Laura Piddock and Dr Antony So.

A Ghafur, Meet the expert-setting up infection control in resource limited settings, ICPIC 2013, Geneva.


A Ghafur, Indian perspective of tackling resistance-June 2013, 3rd world HAI meeting, Annecy, France.

A Ghafur, Management of NDM producers, ECCMID Berlin, April 2013.

A Ghafur, Gram negative resistance problem in India, Australian infectious diseases society and CDC combined meeting, March 2013, Canberra, Australia.

A Ghafur, Mobilising political will to tackle antimicrobial resistance, Australian infectious diseases society and CDC combined meeting, March 2013, Canberra, Australia.


A Ghafur, Pyrexia of Unknown origin; GAMICON 2013, December 2013, Mumbai.

A Ghafur, Tackling antimicrobial resistance, GERICON, December 2013, Chennai.


A Ghafur, Antimicrobial resistance-CME by IMA Karnataka, Bangalore, October 2013.

A Ghafur, Invasive fungal infections-CME by IMA Karnataka, Bangalore, October 2013.


A Ghafur, Plenary lecture, Chennai declaration, CRTICARE 2013, March, Kolkata.

A Ghafur, Chennai declaration, APICON 2013, COIMBATORE, Jan 2013.

A Ghafur, Chennai declaration, APICON 2013, COIMBATORE, Jan 2013.

Membership of editorial boards of peer reviewed journals
International Journal of Antimicrobial Agents(IJAA)
Journal of Antimicrobial Resistance & Infection Control(ARIC)
Journal of Microbiology & Infectious Disease(JMID)
Indian Journal of Critical care Medicine(IJCCM)

Positions held
Antimicrobial stewardship working group member of International Society of Chemotherapy (ISC), since 2013.

Ad Hoc executive member of International society of Chemotherapy (ISC), since 2013.

Antimicrobial Stewardship Committee Chairperson, Clinical Infectious Disease Society [INDIA], since 2011.

Member of task forces of Government of India or State Governments
Steering committee member for the National antibiotic policy and antibiotic guidelines by Indian Ministry of Health.

Bangalore
Dr. Purnima Parthsarathy
Infectious Diseases, Apollo Hospitals, Bangalore

Presentations
“41194 Risk Factors and Mortality in Carbapenem Resistant Gram Negative Bacteremias: A Retrospective Analysis from a Tertiary Health Care Setting in India. IDWeek, the annual conference by the Infectious Diseases Society of America.” Oct 2013, San Francisco.
Dr Raviraj A
Joint Replacement and Arthroscopy Surgery, Apollo Hospitals, Bangalore

Publications


Membership of editorial boards of peer reviewed journals
Invitee editorial member, American Journal of Orthopaedic Research.

Dr A. Chandra Shekar
Nephrology, Apollo Hospital, Bangalore

Publications

Dr. Sharath Kumar G.G.
Radiology, Apollo Hospitals, Bangalore

Publications


Lectures
Guest lecture on "Endovascular Intervention in Head and Neck Pathologies" and to panel the interactive sessions during CME on Neck Imaging Fiesta for ENT & Radiology Trainees to be held on Saturday 20th April 2013, at S S Institute of Medical Sciences & Research Centre, Davangere.

Guest lecture on "MR Spectroscopy"—May 2013, Annual CME – NIMHANS, Bangalore.

Invited for CME IN STROKE-Neuroradiologists perspective, 4-10-2013, SNMC – Bagalkot (Karnatakak).

Invited speaker for talk on “Neurointerventions-emerging trends” by Associations of Physicians in India, Karnataka Chapter – Bangalore on 17-10-2013.

Positions held
Executive committee member for ISNR annual conference: 2013 held in NIMHANS – Bangalore.

Membership of editorial boards of peer reviewed journals
Otology-Neurotology (USA) Editorial Board
Cochlear Implants International (UK) Editorial Board
Postgraduate Journal of Medicine (India) Peer review Board
Indian Journal of Otolaryngology Head & Neck Surgery (India) Peer Review Board

Invited examinership
DNBE (GRL)

Awards
Dhruva Thara Award for work with hearing impaired children.

Dr. Prashanth S. Urs
Neonatology & Pediatrics, Apollo Hospitals, Bangalore

Presentations


Chairperson: Enteral feeding, National Conference of Pediatric Critical Care, Bangalore, 15/09/2013.


Membership of editorial boards of peer reviewed journals
Reviewer : Apollo Medicine, since 2012.

Dr Sunil Narayan Dutt
ENT and Head-Neck Surgery, Apollo Hospitals, Bangalore

Lectures

Membership of editorial boards of peer reviewed journals
Otolgy-Neurotology (USA) Editorial Board
Cochlear Implants International (UK) Editorial Board
Postgraduate Journal of Medicine (India) Peer review Board
Indian Journal of Otolaryngology Head & Neck Surgery (India) Peer Review Board

Invited for CME IN STROKE–Neuroradiologists perspective, 4-10-2013, SNMC – Bagalkot (Karnatakak).

Invited speaker for talk on “Neurointerventions-emerging trends” by Associations of Physicians in India, Karnataka Chapter – Bangalore on 17-10-2013.

Positions held
Executive committee member for ISNR annual conference: 2013 held in NIMHANS – Bangalore.

Membership of editorial boards of peer reviewed journals
Otology-Neurotology (USA) Editorial Board
Cochlear Implants International (UK) Editorial Board
Postgraduate Journal of Medicine (India) Peer review Board
Indian Journal of Otolaryngology Head & Neck Surgery (India) Peer Review Board

Invited examinership
DNBE (GRL)

Awards
Dhruva Thara Award for work with hearing impaired children.

Dr. Prashanth S. Urs
Neonatology & Pediatrics, Apollo Hospitals, Bangalore

Presentations


Chairperson: Enteral feeding, National Conference of Pediatric Critical Care, Bangalore, 15/09/2013.


Membership of editorial boards of peer reviewed journals
Reviewer : Apollo Medicine, since 2012.
Positions held
President, National Neonatology Forum, Karnataka State, 2012-2014.
Director, Neonatal and Pediatric Pearls, 2013.

Member of task forces of State Government
"Newborn screening", Karnataka State Government.

Member of governing board
Inspector for affiliation of "Fellowship in Neonatology, Rajiv Gandhi University of Health Science.

Awards
"Felicitation for contribution towards Neonatology and Neonatal chapter", 2012-2013, Indian Academy of Pediatrics: Bangalore chapter (IAP-BPS), Bangalore, 26/01/2013.

Dr A N Venkatesh
Emergency Medicine, Apollo Hospitals, Bangalore

Publications
Accuracy of admission diagnoses made by emergency physicians in India, Dept of ER, Apollo Hospitals, Bangalore, Dr A N Venkatesh, Dr Anisha Iyer, National Jounal of Emergency Medicine Published in April - June 2013.
Thrombosis of a cerebral ischemic stroke in the second trimester of pregnancy, Dr. A.N. Venkatesh, Dr. Anisha Iyer, Dr. Jagan Mohan Reddy, National Jounal of Emergency Medicine Published in April – June 2013.

Bhubaneswar

Dr Bikash Kumar Mishra
Neurology, Apollo Hospital, Bhubaneshwar

Lectures
"Stroke Burden in India ", American Academic Neurology at USA, 16th -22nd March 2013.

Dr Bibekananda Panda
Nephrology, Apollo Hospital, Bhubaneshwar

Lectures
"European Society of Organ Transplant Annual Conference 2013" at Vienna, 8th till 12th Sep’13.

Dr. Dipika Mohanty
Haematology, Apollo Hospitals, Bhubaneshwar

Publications

Bhilai

Dr A P Savant
Medical Director, Apollo BSR Hospitals, Bhilai

Lectures

Dr Bhubaneswar

Dr A P Savant
Medical Director, Apollo BSR Hospitals, Bhilai

Lectures

Awards
Doctor of the year award by Indian Medical Association - Chhattisgarh.


Lectures
Key note address: X-linked disorders in India with special reference to bleeding disorders, Adaspur, Cuttack, September 2013.


Chairing the session on Bone marrow Transplant, 24th Annual Conference of Indian Society of Organ Transplantation, KIMS, BBSR, Oct-2013.


Indian Social Science Congress, Lecture delivered in "Genetic Disease in Grissa- What can be done", KIMS, BBSR, 27th – 30th Dec 2013.

Membership of editorial boards of peer reviewed journals
Member of Editorial Board for Indian Journal of Medical Research, since 2000.
Member of task forces of Government of India or State Governments
Member of Peer Review Committee of ICMR, Hematology, Physiology, Genetics and Pharmacology.
Member of National Task Force on Hemoglobinopathies and its control.
Member of Task Force on Genetics and Genomics of DBT (Dept. of Biotechnology).
Chairperson, Managing Committee of Central Red Cross Blood Bank, Cuttack.
Member of Working committee of Orissa State Red Cross.
Member of State Audit Advisory Board for Social Audit, A.G. Orissa.
Chairperson of Scientific Advisory Committee of National Plasma Fractionation Centre, Mumbai.

**Dr. M S Modi**
GI Surgery, Apollo Hospitals, Bhubaneswar

**Publications**

**Lectures**

**Positions held**
- Treasurer, APRASO, 1 year.

**Dr Md Ibrarullah**
GI Surgery, Apollo Hospitals, Bhubaneswar

**Chapters contributed to text book**
- Pearls in Surgery 2013, Paras Medical Books, “Right iliac fossa lump”.

**Publications**

**Lectures**

**Dr Nachiketa Mohapatra**
Histopathology, Apollo Hospitals, Bhubaneswar

**Lectures**

**Dr Pitambar Prusty**
Medicine & Endocrinology, Apollo Hospitals, Bhubaneswar

**Publications**
Dr Prasanta Kumar Sahoo
Cardiology, Apollo Hospitals,
Bhubaneswar

Chapters contributed to text books

Publications

Lectures
Coronary Interventions in AMI, APICON - 2013 [Annual Conference of National API- 2013], Coimbatore, January 2013.
Primary Angioplasty – Current Status in India, EIICON – CSI Odisha State Chapter, Cuttack, February 2013.

Dr Samarjit Bisoyi
Cardiac Anesthesiology, Apollo Hospitals, Bhubaneswar

Publications

Lectures
Diabetic autonomic neuropathy, Controversies in Obesity, diabetes and endocrinology, August, 2013, Kolkata.
Glycemic emergencies, IMA-AMS, Orissa Chapter-2013, February.

Dr Sanjeev Gupta
ENT, Apollo hospitals, Bhubaneswar

Lectures
Unexpected nasopharyngeal foreign body, Apollo Medicine, Sanjeev Gupta, Surya Kanta Pradhan, 10 (2013)310e312.

Dr Sanjeev Pattnaik
Orthopaedics, Apollo Hospitals, Bhubaneswar

Lectures
Paper presentation on Joint Replacement, Asia Pacific Regional Hip Live Surgery at Chonnam National University Hospital, Gwangju, 4th-5th Apr’13.
Joint Replacement Scenario in Odisha- The present & future, IGOF Odisha course on Trauma and Joint Replacements, 1st-3rd Mar’13.
Basic Principles of fracture management, AO Trauma course (Table instructor), 21st-23rd Nov’13.

Membership of editorial boards of peer reviewed journals
Odisha Journal of Orthopaedics & Trauma, since 2013.

Positions held
Associate Member, SICOT, tenure 2014.

Dr Sarala Das
Neuropathology, Apollo Hospitals, Bhubaneswar

Orations
Presidential Oration, Annual Conference Association of Neuroscientist of Eastern India, held at Ranchi, 15th - 17th Nov’13 [Oration on 16th Nov’13].

Lectures
Immunohistopathochemistry - A new vista in diagnosis and management of Tumors of C.N.S, Annual Conference Association of Neuroscientist of Eastern India, held at Ranchi, Nov’13.

Positions held
President, Association of Neuroscientists of Eastern India, one year.

Dr Satyabrata Tripathy
Dermatology, Apollo Hospitals, Bhubaneswar

“Psoriatic arthritis”, Dr Satyabrata Tripathy, Dr Prasanta Pradhan, Indian Journal of Rheumatology, 2nd June 2013.

Dr Subodh Kumar Das
Urology, Apollo Hospitals, Bhubaneswar

Lectures
“European Society of Organ Transplant Annual Conference 2013” at Vienna, 8th till 12th Sep’13.

Dr Suneeta Sahu
Microbiology, Apollo Hospitals, Bhubaneswar

Lectures
Clinical Immunoserological profile of Scrub Typhus - A killer disease, IAMM State chapter, 29th Sep 2013.

Poster presentation on “multi resistant Klebsiella Pneumonia as a cause of exuberant cutaneous ulcers on the lower limbs”, IAMM State chapter, 29th Sep 2013.

Bilaspur

Dr Vinit Kumar Srivastava
Neuro-Anesthesiology, Apollo Hospitals, Bilaspur

Publications


Membership of editorial boards of peer reviewed journals
Reviewer, Journal of Clinical and Diagnostic Research, since 08/06/2013.

Awards
Associate Professor [AHERF], 2013.

Chennai

Prof. K. Ganapathy
Neurosurgery, Apollo Hospitals, Chennai

Publications

Peer reviewed BMJ Blogs


Orations

Lectures
Cost effective and Accessible Health Care Technologies on “Affordable and Sustainable Technologies”, CII Tamil Nadu Chapter, Chennai, 20th December 2013.

“Telehealth & technology”, Xerox Research Centre Bangalore, July 8th 2013.

CSCs: Delivering Healthcare to Rural India’ Invited guest lecture, New Delhi, Nov 13, 2013.


Guest Speaker, Symposium on Asia US Partnership Opportunities [SAUPO], Atlanta USA, April 2013.

Forum 2013 Regional Conference of Sundaram Medical Foundation Chennai:, Can the mind go where the body cannot, Chennai, 20th October 2013.


Panelist Health Care Summit 2013 organised by Network 18 CNN IBN, New Delhi, May 31st 2013.

Health care to anyone, anytime, anywhere, Indian Medical Association, Alwaye Kerala, January 2013.

Dr. N. Ramakrishnan AB
Critical Care & Sleep Medicine, Apollo Hospitals, Chennai

Dr. Prasanna Kumar Reddy
Gastroenterology, Laparoscopic & Bariatric Surgery, Apollo hospitals, Chennai, India

Dr. G. Anantha Subramaniam
General Medicine, Apollo Hospitals, Chennai

Awards
Selected by Medscape India, Mumbai for the National Award for “Excellence in Medicine” for 2013.
Dr P Rajasekar
Orthopaedics, Apollo Hospitals, Chennai

Positions
Organising Secretary, Conference Secretariat, Indian Cartilage Society.

Programs Conducted
First ever Asian Cadaver Course on cartilage procedures, First Asian Cartilage Congress in November 2013.

International Cartilage Conference with the First Asian Cartilage Congress in November 2013.

Dr R Magesh
Geriatrics, Apollo Hospitals, Chennai

Lectures
Lecture delivered at GERICON2013, (National Geriatric meeting), December 15th, Chennai.

Dr K N Srinivasan
Cardiology, Apollo Hospital, Chennai

Membership
Member In Stemi India Programme.

Internal Associate Member in American College of Cardiology, July 2013.

Dr. Bhuvaneshwari Shankar
Clinical Nutrition, Apollo Hospitals, Chennai

Books published


Chapters contributed to text books

Dr K N Srivivasan
Cardiology, Apollo Hospital, Chennai

Membership
Member In Stemi India Programme.

International Associate Member in American College of Cardiology, July 2013.

Dr R Ramnarayan
Neurosurgery, Apollo Hospital, Chennai

Chapters contributed to text books
Venous and Capillary Malformations of the CNS, Chapter 58, Textbook of Contemporary Neurosurgery, Jaypee.
Vascular Malformations of the spinal cord, Chapter 107, Textbook of Contemporary Neurosurgery, Jaypee.

Publications

Orations
Invited as faculty and Auditor to represent India for the Comprehensive Clinical Neurosurgery Review in Krakow (Poland), December 2 - 6, 2013.

Invited Examinership
Examiner for DNB neurosurgery, final clinical at RML Hospital, Delhi, April 2013.

Awards
Best doctor award by Dr MGR Medical University, Tamil Nadu.

Conferred FRCS by the Royal College of Surgeons of England July 9, 2013.

Dr. I. Sathyamurthy
Endocrinology, Apollo Hospitals, Chennai

Lectures
“Neonatal Thyroid Dysfunction”, I T S Con-2013, Bangalore, 16/02/2013 to 17/02/2013.


“A Premature Ovarian Failure”, Ferticon-2013, Akash Fertility Centre Hospital Vadapalani, 22/12/2013.

Department of Infectious Diseases
Apollo Hospitals, Chennai

Dr. P. G. Sundararaman
Endocrinology, Apollo Hospital, Chennai

Lectures

“A Premature Ovarian Failure”, Ferticon-2013, Akash Fertility Centre Hospital Vadapalani, 22/12/2013.

Department of Infectious Diseases
Apollo Hospitals, Chennai


Lectures at International Conferences
Ram Gopalakrishnan. Chairperson for symposium on "Treatment options for MDR Gram negative bacilli" at 23rd European Conference of Clinical Microbiology and Infectious Diseases (ECCMID) at Berlin, Germany on 27th April 2013.

Ram Gopalakrishnan. Chairperson for symposium on “Focus on bacteraemia” at 23rd European Conference of Clinical Microbiology and Infectious Diseases (ECCMID) at Berlin, Germany on 28th April 2013.

National Conference Abstracts


Sureshkumar D, Gopalakrishnan R, Thirunarayan MA. Are all carbapenems same in Petri dish? 3rd Annual Conference of the Clinical Infectious Disease Society (CIDSCON 2013), Aug 30-Sep 1, Mumbai.

Sureshkumar D. Clinical & Epidemiological profile of Typhoid; APICON 2013 oral presentation.

Invited Lectures at National Forums
Dr Ram Gopalakrishnan
TORCh infections: a case based approach. Lecture at symposium on “Infectious Diseases: from bench to bedside” at Fortis Hospital, Mulund, Mumbai on 21st April 2013.

Endocarditis: all you wanted to know. Lecture at symposium on “Infectious Diseases: from bench to bedside” at Fortis Hospital, Mulund, Mumbai on 21st April 2013.

The Clinician and the Microbiology laboratory. Lecture at Apollo Infectious Disease Conference 2013 on 15th June 2013.

Investigating a patient with HIV and liver disease. Lecture at Liver Clinics 2013 at Madras Medical College on 20th July 2013.


Viral Infections in Pregnancy, Chairperson at 13th International Conference 'What is new in Sub-fertility, Obstetrics and Gynecology', Chennai on 10th Aug 2013.


Approach to infections in the post-transplant host. Lecture at Infectious Diseases CME for Postgraduates at CMC, Vellore on 13th Dec 2013.

Dr D Sureshkumar
Chennai declaration-What is the status APICON 2013.

Fever of Multiple origin - IMA Tuticorin CME, Feb 2013.

Tackling Antibiotic Resistance in Pediatric Practice - IJPP CME June 2013.


Lab diagnosis of Infectious Disease - IAP Salem, November 2013.

Dr Senthur Nambi
Changing Scenario in Antimicrobial resistance: Guest Speaker for the monthly CME Prog. at KKTC, Chennai on 22nd February 2013.

Post operative sepsis: Lecture at Dept of General Surgery, Govt Rajiv Gandhi General Hospital, Chennai on 6th February 2013.

Influenza: The current approach & Procalcitonin: Pros & Cons - Lectures at symposium on "Infectious Diseases: from bench to bedside" at Fortis Hospital, Mulund, Mumbai on 21st April 2013.

Newer antibiotics in the horizon, Lecture at CME on antimicrobial therapy in paediatrics, 5th May 2013.


Labs in diagnosing infections, IAP – Coimbatore Chapter, IDCON, 19th May 2013.

OP antibiotics simplified, Lecture at Apollo Infectious Disease Conference 2013 on 15th June 2013.

Managing soft tissue infections, Lecture at 1st Chennai Advanced wound care conference, 7th July 2013.

Antibiotics in community acquired sepsis, Lecture at Military Hospital, Chennai, 25th July 2013.


Tropical infections in ICU, ISCCM Chennai Chapter Meeting, 9th October 2013.

Gram positive Infections, CME at GB Pant Hosp, Port Blair, 12th October 2013.

Choice of antibiotics in UTI, APSOGUS, Vijayawada, 10th Nov 2013.

Dr. V. Ramasubramanian
Adjunct Professor, Tamil Nadu Dr. MGR Medical University
Joint Secretary, Clinical Infectious Disease Society (India)

Dr. Ram Gopalakrishnan
Adjunct Professor, Tamil Nadu Dr MGR Medical University
Member, Board of Super-specialities, Tamil Nadu Dr MGR Medical University
President, Clinical Infectious Diseases Society (India)

Dr. Senthur Nambi
Faculty at “Initiative Chronic Wound” [ICW] Program, Apollo HARTMANN Training Project for India, August 2013, Chennai.

Dr. A. Vincent Thamburaj
Neurosurgery, Apollo Hospitals, Chennai

Book Published
Textbook of Contemporary Neurosurgery, Editor, Jaypee Publishers, New Delhi

Pooja Bagdi Agrawal
Anesthesiology, Apollo Day Surgery, Alwarpet

Awards

Delhi

Dr. Ajay Kumar Kriplani
Laparoscopic, Bariatric & G.I. Surgery, Indraprastha Apollo Hospitals, New Delhi

Lectures
Live demonstration of “Laparoscopic repair of Incisional Hernia”, 2nd Fellowship Certification Course in Advanced Laparoscopic Surgery (FALS) organized by Indian Association of Gastrointestinal Endo-Surgeons & Sir JJ Group of Hospitals, 14th to 17th November 2013.

Guest Lectures on “Laparoscopic pancreatic surgery” and “Technique of Laparoscopic fundoplication and paraesophageal hernia”, 2nd Fellowship Certification Course in Advanced Laparoscopic Surgery (FALS) organized by Indian Association of Gastrointestinal Endo-Surgeons & Sir JJ Group of Hospitals, 14th to 17th November 2013.


Dr. Ajay Kriplani
Professor, Dept of General Surgery, Indraprastha Apollo Hospitals, New Delhi

Awards
Asian Hospital Management Awards 2013, Bangkok: Excellence award in Patient Safety category for Antimicrobial Stewardship Program awarded to Apollo Hospitals, Chennai for a project on Antimicrobial Stewardship initiated by Dept of Infectious Diseases, Apollo Hospitals, Chennai.

Positions held
Adjunct Professor, Tamil Nadu Dr. MGR Medical University
Member, Board of Super-specialities, Tamil Nadu Dr MGR Medical University
President, Clinical Infectious Diseases Society (India)
Member, Education Subcommittee, European Society of Clinical Microbiology and Infectious Diseases.

Dr Senthur Nambi
Faculty at “Initiative Chronic Wound” [ICW] Program, Apollo HARTMANN Training Project for India, August 2013, Chennai.

Guest lectures on “Minimal Access Surgery for pancreatic tumors” and “How I learnt my basics in laparoscopic surgery”, Continuing Medical Education Program, 73rd Annual Conference of the Association of Surgeons of India, 24th to 29th Dec 2013.

Live demonstration of “Laparoscopic Adrenalectomy”, SURGICON 2013, Annual conference of the Delhi State Chapter of the Association of Surgeons of India, organized by Post Graduate Institute of Medical Education and Research, Ram Manohar Lohia Hospital, 29th Nov to 1st Dec 2013.

Dr. Ajay Kriplani
Professor, Dept of General Surgery, Indraprastha Apollo Hospitals, New Delhi

Awards
Asian Hospital Management Awards 2013, Bangkok: Excellence award in Patient Safety category for Antimicrobial Stewardship Program awarded to Apollo Hospitals, Chennai for a project on Antimicrobial Stewardship initiated by Dept of Infectious Diseases, Apollo Hospitals, Chennai.

Positions held
Adjunct Professor, Tamil Nadu Dr. MGR Medical University
Member, Board of Super-specialities, Tamil Nadu Dr MGR Medical University
President, Clinical Infectious Diseases Society (India)
Member, Education Subcommittee, European Society of Clinical Microbiology and Infectious Diseases.

Dr. Ajay Kriplani
Professor, Dept of General Surgery, Indraprastha Apollo Hospitals, New Delhi

Lectures


Live Demonstration of “Laparoscopic repair of Incisional Hernia”, 2nd Fellowship Certification Course in Advanced Laparoscopic Surgery (FALS) organized by Indian Association of Gastrointestinal Endo-Surgeons & Sir JJ Group of Hospitals, 14th to 17th November 2013.

Guest Lectures on “Laparoscopic pancreatic surgery” and “Technique of Laparoscopic fundoplication and paraesophageal hernia”, 2nd Fellowship Certification Course in Advanced Laparoscopic Surgery (FALS) organized by Indian Association of Gastrointestinal Endo-Surgeons & Sir JJ Group of Hospitals, 14th to 17th November 2013.


Guest lecture on “Laparoscopic surgery of the liver and pancreas”, 33rd fellowship course of Indian Association of Gastrointestinal Endosurgeons (FIAGES 2013), Shri Balaji Action Hospital, 6th Sep 2013.

Live Demonstration of “Single Incision Laparoscopic Cholecystectomy” and “Laparoscopic Incisional Hernia Repair”, 33rd fellowship course of Indian Association of Gastrointestinal Endosurgeons (FIAGES 2013), Shri Balaji Action Hospital, 7th Sep 2013.


Guest lecture on “Technique of Trans Abdominal Pre Peritoneal Hernia Repair”, Hernia Update, Organised by Delhi Chapter of Association of Surgeons of India, Indraprastha Apollo Hospital, 9th March 2013.

Guest lecture on “Surgical Management of Obesity”, 34th All India Steel Medical Officer’s Conference organized by J.L.N. Hospital and Research Centre, Bhilai Steel Plant, Bhilai (C.G.), 3rd February 2013.

Live Demonstration of “Laparoscopic Trans Abdominal Pre Peritoneal Inguinal hernia Repair” and “Laparoscopic Ventral Hernia Repair”, Agra Lapcon 2013 under the Aegis of SELSI and Indian Hernia Society, 27th January 2013.

Guest Lecture on “Laparoscopic Management of Diaphragmatic hernia”, 26th AMASI skills course, Ram Manohar Lohia Hospital, 19th January 2013.

Guest faculty for the “Bariatric surgery master class” (BSMC), “Bariatric surgery master class” (BSMC) organized by West Zone, Indian Association of Gastrointestinal Endosurgeons, Pune, Maharashtra, 12th-13th January 2013.

Positions held
Trustee, Indian Association of Gastrointestinal Endo Surgeons, since 2012.

Panelist for panel discussion on “Controversies in Laparoscopic Hernia Surgery”, Hernia Update, Organised by Delhi Chapter of Association of Surgeons of India, Indraprastha Apollo Hospital, 9th March 2013.

Guest Lecture on “Surgical Management of Obesity”, 34th All India Steel Medical Officer’s Conference organized by J.L.N. Hospital and Research Centre, Bhilai Steel Plant, Bhilai (C.G.), 3rd February 2013.

Live Demonstration of “Laparoscopic Trans Abdominal Pre Peritoneal Inguinal hernia Repair” and “Laparoscopic Ventral Hernia Repair”, Agra Lapcon 2013 under the Aegis of SELSI and Indian Hernia Society, 27th January 2013.

Guest Lecture on “Laparoscopic Management of Diaphragmatic hernia”, 26th AMASI skills course, Ram Manohar Lohia Hospital, 19th January 2013.

Guest faculty for the “Bariatric surgery master class” (BSMC), “Bariatric surgery master class” (BSMC) organized by West Zone, Indian Association of Gastrointestinal Endosurgeons, Pune, Maharashtra, 12th-13th January 2013.

“Acid Peptic Disease(Standalone publication)”, Dr A Murugunathan, Dr Rajesh Upadhyay, Dr A C Anand, Dr V G Mohan Prasad, 2013, Elsevier.

“Gastritis and Dyspepsia(Standalone publication)”, Dr A Murugunathan, Dr Rajesh Upadhyay, Dr A C Anand, Dr V G Mohan Prasad, 2013, Elsevier.

Chapters contributed to text books
“Management of Hepatic Encephalopathy in Pregnancy”, Hepatic Encephalopathy 2013, Dr A C Anand, Dr P Puri, MacMillan Medical Communications.


Publications

Dr. Anil Chandra Anand
Gastroenterology and Hepatology, Indraprastha Apollo Hospitals, New Delhi

Books published
“Gastroesophageal Reflux Disease (Standalone publication)”, Dr A Murugunathan, Dr Rajesh Upadhyay, Dr A C Anand, Dr V G Mohan Prasad, 2013, Elsevier.

Publications

Panels for panel discussion on “Controversies in Laparoscopic Hernia Surgery”, Hernia Update, Organised by Delhi Chapter of Association of Surgeons of India, Indraprastha Apollo Hospital, 9th March 2013.

Guest Lecture on “Surgical Management of Obesity”, 34th All India Steel Medical Officer’s Conference organized by J.L.N. Hospital and Research Centre, Bhilai Steel Plant, Bhilai (C.G.), 3rd February 2013.

Live Demonstration of “Laparoscopic Trans Abdominal Pre Peritoneal Inguinal hernia Repair” and “Laparoscopic Ventral Hernia Repair”, Agra Lapcon 2013 under the Aegis of SELSI and Indian Hernia Society, 27th January 2013.

Guest Lecture on “Laparoscopic Management of Diaphragmatic hernia”, 26th AMASI skills course, Ram Manohar Lohia Hospital, 19th January 2013.

Guest faculty for the “Bariatric surgery master class” (BSMC), “Bariatric surgery master class” (BSMC) organized by West Zone, Indian Association of Gastrointestinal Endosurgeons, Pune, Maharashtra, 12th-13th January 2013.
Lectures

- ‘Immunology of HCV Infection’, ‘GI Immunology Course’ by AIIMS, New Delhi, Jan 12-13, 2013.
- ‘Clinical spectrum of hepatitis B [Public Lecture at AIIMS]’, World Hepatitis Day Public Lecture at AIIMS, New Delhi, 28 July 2013.
- ‘Applications and Limitations of Fibroscan and ARFI’, Controversies in Hepatology, a Conference organised by Delhi Liver Foundation and Sir Ganga Ram Hospital, 7-8 Sep 2013.

Convener of National Task Force on Hepatitis C Virus Infection in India, Indian National Association of the study of Liver, 2011 onwards.

Invited examinership

- Invited to be an Examiner for DNB (Gastroenterology) organised at G B Pant Hospital.
- Invited to be an examiner for DM (Hepatology) at PGIMER Chandigarh.

Awards

- Fellowship of National academy of Medical Sciences.
- President’s Honorary Surgeon in 2013 (Ex-Officio).
- Fellowship of American College of Gastroenterology, Virginia (USA).
- Fellowship of American College of Physicians (USA).
- Fellowship of Indian College of Physicians, Mumbai.
- Fellowship of Society of Gastrointestinal Endoscopy of India.

Dr. Anupam Sibal

Pediatric Gastroenterology and Hepatology, Indraprastha Apollo Hospitals, New Delhi

Publications


Liver transplantation in metabolic liver diseases 13th APPSPGHAN & 40th JSPGHAN, 31 October – 3 November, 2013 Tokyo, Japan.

Apollo Accreditation Program (AAP), The International Society for Quality in Health Care’s (ISQUA) 30th International Conference, 13 -17 October 2013, Edinburgh.

"How to Develop a Patient Safety Program that is Straightforward, Takes Little Infrastructure and Few Resources, and Benefits Providers as Well as Patients", Hospital Management Asia 2013, 11-15 September 2013, Bangkok.
Debate - Managing a Hospital is much more difficult than Managing a Hotel or Other Service Company, Hospital Management Asia 2013, 11-15 September 2013, Bangkok.

The Way Forward, Mid Year conference, GAPIO, 5-6 July 2013, Los Angeles, USA.

Updates in nutritional management of children with liver disease/ liver failure, XIV Annual Scientific Conference, Kenya Pediatric Association 2013, 16 – 20 April, Mombasa, Kenya.

15 years of successful liver transplantation in SAARC, Nepal Medical Association 2013, 2 -3 January 2013, Kathmandu, Nepal.

Case discussions in Pediatric Liver Diseases, IAP, 14 December 2013, Mumbai.

Case scenarios in day to day hepatology, GIAPCON 2013, 7 December 2013, Baroda.

Abdominal pain revisited, GIAPCON 2013, 7 December 2013, Baroda.

Liver Transplantation in Children, IAP, 16 November 2013, Jaipur.

Liver Transplantation in Children, IAP, 26 October 2013, Lucknow.


Sisir Chandra Bose Oration, Institute of Child Health (ICH), Kolkata, 23 – 24 August 2013, Kolkata.

15 years of pediatric liver transplantation in India, Indian Medical Association (IMA), Amritsar, 21 July 2013, Amritsar.

Indraprastha Apollo Hospitals Delhi becomes the busiest solid organ transplant centre in the world, Apollo Hospitals, 23 June 2013, Ajmer.

Pediatric liver transplantation, IAP, 31 May 2013, Ahmedabad.

Pediatric liver transplantation, IAP, 26 May 2013, Panipat.

Pediatric liver transplantation, IAP, 12 May 2013, Gwalior.

15 years of pediatric liver transplantation in India, IAP, 27 April 2013, Ludhiana.

Pediatric liver transplantation, IAP, 8 March 2013, Pune.

Beyond Accreditation - the Apollo Experience, Aditya Birla Memorial Hospital, QIPS 2013 conference, 9 March 2013, Pune.

Newer diagnostic modalities in gastroenterology and hepatology, Pediatrics 2013, 10 March, Nagpur.

Management of liver failure, IAP, Chhattisgarh, 24 - 25 February 2013, Bilaspur.


Awards
"Vashisht Chikitsa Ratan Award" by Delhi Medical Association June 2013.

Fellow, American Academy of Pediatrics, 2013.

Memberships

Positions held
Member of the Regional Middle East International Advisory Board of Joint Commission International (JCI) since 2011.

Member of the Institute Body of Postgraduate Institute of Medical Education and Research, Chandigarh since October 2009.

Adjunct Professor of Pediatrics, School of Medicine, University of Queensland, Brisbane, Australia since June 2009.

Group Medical Director, Apollo Hospitals Group since September 2005.

Director Medical Services, Indraprastha Apollo Hospital, New Delhi since March 2003.

Dr Arun Prasad
Minimal Access Surgery, Indraprastha Apollo Hospitals, New Delhi

Chapters contributed to text books

Publications

Lectures
5th Jan 2013 – Pune, chairing session on Bariatric surgery and presentation on hiatus hernia with obesity, bariatric surgery.

16th Jan 2013 – Amritsar – Bariatric surgery, live demonstration in workshop.

19th Jan 2013 – Association of minimal access surgeons of India, RML hospital conference, guest lecture on laparoscopic colorectal surgery.

achievements
24th Jan 2013 – Royal College of Obstetricians and gynaecologists surgical skills course, New Delhi – Invited guest faculty.

3rd February 2013 – Robotic bariatric surgery guest lecture at South Delhi IMA meeting.

27th, 28th February 2013 – Yangon, Myanmar – Guest lecture on Robotic surgery in India.


26, 27, 28th April 2013 – New Delhi, Apollo Hospital, Organizer, chairperson, live laparoscopic, thoracoscopic and robotic surgery at conference of new areas in minimal access surgery.

29th June 2013 – Hyderabad – Conference on obesity surgery – Chairperson, presentations on gastric bypass surgery, robotic bariatric surgery.

5th July 2013 – Hyderabad, ACMOMS international conference – presentations on complications in bariatric surgery and robotic bariatric surgery.

2-3 Aug 2013 – Delhi, Max hospital – Guest lecture and panel discussion on complications of bariatric surgery.


6, 7 Aug 2013 – Indore – Medical College – live bariatric surgery and presentation on sleeve gastrectomy.


23 Nov 2013 – Ghaziabad – Association of surgeons of India annual conference, guest lecture on Robotic GI surgery.


7th Dec 2013 – Gurgaon Medanta – European society of thoracic surgeons meeting – Guest lecture on Robotic thymectomy and live demonstration of thoracoscopic surgery relayed from Apollo Hospital operation theatre.

28th Dec 2013 – API annual conference – Guest lecture on Robotic GI surgery.

Positions held

Vice president, IAGES (Indian Association Of Gastroendoscopic Surgeons), 2012-2014.

Vice president, OSSI (Obesity Surgery Society Of India), 2012-2014.

Member of task forces of Government of India or State Governments

FICCI Task Force on Innovation in Healthcare.

Sector Innovation Council for the Health sector – Ministry of Health.

Dr. Ashish Kakar

Dental Surgery, Indraprastha Apollo Hospitals, New Delhi

Publications


"Measurement of dentin hypersensitivity with the Jay Sensitivity Sensor Probe and the Yeaple probe to compare relief from dentin hypersensitivity by dentifrices", Kakar A, Kakar K, American Journal of Dentistry, 2013 May 26, Spec No B:21B-28B.


Presentations
- “Clinical Evaluation of new microprocessor based instrument for Dentine hypersensitivity”, International Association for Dental Research, Seattle, USA, March 2013.

Positions held
- General Secretary, Academy Of Oral Implantology, India, 2013-2015.
- Visiting Professor, Yenepoya University, Mangalore, India, 2013-2015.
- Adjunct Assistant Professor, Rutgers School of Dental Medicine, Newark, USA, 2013.

Patent
- Apparatus And Method for Measuring Dentin hypersensitivity, November 12, 2013, Patent number: 8,579,630b2

Dr. Ashish Malik
- Anesthesisology, Indraprastha Apollo Hospitals, New Delhi

Publications
- “Right or left first during bilateral thoracoscopy”, Dr. Meera Kharbanda, Dr. Arun Prasad, Dr. Ashish Malik, Surgical Endoscopy, Vol 27, issue 8, 2013.
- Awards

Dr. Ashu Agarwal
- Ophthalmology, Indraprastha Apollo Hospitals, New Delhi

Lectures
- “Keratoconus - Clinical Case Discussion”, Intraocular Implant & Refractive Surgery, India, Delhi, September 8, 2013.
- “Choosing the Right Phaco Machine”, Intraocular Implant & Refractive Surgery, India, Delhi, September 8, 2013.

Dr. IPS Kochar
- Paediatric Adolescent Endocrinology & Diabetology, Indraprastha Apollo Hospitals, New Delhi

Publications

Dr. Mohammad Asim Siddiqui
- Endocrinology & Diabetes, Indraprastha Apollo Hospitals, New Delhi

Publications
- At risk Cornea for Laser Refractive Correction”, Delhi Ophthalmological Society, Winter Meeting, Delhi, December 1, 2013.


Presentations
Membership of editorial boards of peer reviewed journals:
BMJ Case Reports

Lectures
5th Asia Pacific Vascular Intervention Course, 14th - 15th June, 2013, New Delhi, "Management of Diabetes in patients with Peripheral Vascular Disease".

Dr. Nitin P. Ghonge
Radiology, Indraprastha Apollo Hospitals, New Delhi

Chapters contributed to text books


Publications


Orations
Dr. N. G Gadkar memorial Oration of Indian College of Radiology & Imaging [ICRI] at Indore, January- 2013.

“CT & MR angiography of Kidneys – Maximising information in this era of minimally-invasive Surgeries”.

Selection for Dr. K. M Rai memorial Oration of Indian Radiology & Imaging Association [IRIA] at IRIA Annual Conference at Cochin, January-2015.

“MDCT work-up of living renal donors prior to Laparoscopic Donor Nephrectomy”.

Presentations
“Radiography and CT Imaging in Inflammatory Bowel Diseases”, An invited guest lecture presented at Delhi Imaging Update [DIU-2013] at New Delhi in April 2013.


“Imaging of Paediatric Gastro-Intestinal Tract”, An invited guest lecture at the Kunwar Viren Ostwal teaching course in Paediatric Gastroenterology & Hepatology at New Delhi in August 2013.

“Neonatal MRI Brain – Patterns & Timings in Brain Injury”, An invited guest lecture at the Neonatal Neuroson at Gurgaon in September 2013.


“Role and relevance of MRI in Gynecology”, An invited guest lecture at Hamdard University CME, New Delhi - November 2013.

“Imaging in Ovarian Malignancy”, An invited guest lecture at Delhi Ultrasound Update, New Delhi - December 2013.

Mentored projects


High-Frequency Ultrasound of non-neoplastic conditions of the inguino-scrotal region, Dr. Sunil Agarwal, Dr. Nitin Ghonge et al., An award-winning poster [2nd prize] presented at the Delhi Ultrasound Update (DUU-2013), New Delhi, 15th December 2013.

Membership of editorial boards of peer reviewed journals
Associate Editor for ‘Radiology’ [Radiological Society of North America], 2013.


Section Editor for ‘Apollo Medicine’, 2013.


Positions held
Joint Secretary, Indian College of Radiology & Imaging [ICRI], 2013-15.
Awards

Received the Fellowship of Indian College of Radiology & Imaging [FICR] at the convocation of the College at Indore in January-2013.

Dr. Pushpendra Nath Renjen
Neurology, Indraprastha Apollo Hospitals, New Delhi
Publications


“An unusual recurrence of dysembroplastic neuroepithelial tumors after a seizure free period of 8 years”, Nadeem Israr Khan, Laxmi Khanna, Pushpendra Nath Renjen, Cecilia Succour Fernandes, BMJ Case Reports, Published online (05th of Sept. 2013), doi:10.1136/bcr-2013-010469.

“Role of plasma N-terminal proB-type natriuretic peptide (NT- proBNP) level in acute cardioembolic stroke”, Pushpendra Renjen, Rajender Singla, Apollo Medicine, Volume 10, Issue 3, September 2013, pp 217-219.

“Stroke as the first manifestation of Takayasus’s arteritis”, Pushpendra Renjen, Laxmi Khanna, Cecilia Fernandes, Nadeem Khan, Apollo Medicine, Volume 10, Issue 3, September 2013, pp 251-253.


Lectures
“Immunological modulation in neurological disorder”, API Agra Chapter, 29th of January 2013.

“Comprehensive epilepsy management”, All Nepal Medical Conference organized by Nepal Medical Association, 02nd – 04th of March 2013.

“Management of TIA”, National Neurosciences Meeting organized by Apollo Hospital, 12th of May 2013.

“Management of Young Stroke”, National Neurosciences Meeting organized by Apollo Hospital, 12th of May 2013.


“Thrombolytic Therapy”, IMA UP Chapter at Agra, 18th December 2013.


Dr. [Prof.] RN Makroo
Transfusion Medicine, Indraprastha Apollo Hospitals, New Delhi.
Publications


Dr. P. K. Das
Medical Oncology, Apollo Cancer Institute, New Delhi

Member of task forces of Government of India or State Governments
Member of “Expert Advisory Committee on Oncology” for six new AIIMS institutes (Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur and Rishikesh).

Dr. Praveen Garg
Medical Oncology, Indraprastha Apollo Hospitals, New Delhi

Lectures


Positions held

Dr. P. K. Das
Medical Oncology, Apollo Cancer Institute, New Delhi

Member of task forces of Government of India or State Governments
Member of “Expert Advisory Committee on Oncology” for six new AIIMS institutes (Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur and Rishikesh).

Dr. Praveen Garg
Medical Oncology, Indraprastha Apollo Hospitals, New Delhi

Lectures


Positions held

Dr. Praveen Garg
Medical Oncology, Indraprastha Apollo Hospitals, New Delhi

Lectures


Positions held


Lectures
Chairperson for scientific session on immuno- haematology at 6th Annual CME of Department of Transfusion Medicine AIIMS on 22nd Feb, 2013 in Auditorium AIIMS.

Moderator on Seminar on rational use of blood organized by GTB Hospital in Collaboration with Delhi State Aids Control Society (DSACS) on 22nd March, 2013 at Library Hall UCMS GTB Hospital Delhi.

Guest Lecture – Importance of red cell antibody screening & identification at RaktPravah- 2013 on 30-31 March, 2013 at Dehradun organized by IMA blood Bank Dehradun, Uttarakhand.


Guest Lecture – Impact of NAT on blood safety at CME organized by Triumph Blood Bank Than e on 28th April, 2013 at Thane, Maharashtra 400601.

Donor return after a positive feedback: How altruistic are we? (Poster presentation) at 23rd Regional Conference of International Society of Blood Transfusion (ISBT) at Amsterdam, The Netherlands 2-5 June, 2013.

Effects of No Transfusion, Autologous transfusion, Allogenic transfusion and age of blood on outcome in cardiac surgeries. (Poster presentation) at 23rd Regional Conference of International Society of Blood Transfusion (ISBT) at Amsterdam, The Netherlands 2-5 June, 2013.

Moderator on Seminar on rational use of blood organized by GTB Hospital in Collaboration with Delhi State Aids Control Society (DSACS) on 22nd March, 2013 at Library Hall UCMS GTB Hospital Delhi.

Guest Lecture: Achievement – Importance of red cell antibody screening & identification at RaktPravah- 2013 on 30-31 March, 2013 at Dehradun organized by IMA blood Bank Dehradun, Uttarakhand.

Guest Lecture on blood safety at Patient Safety Workshop organized by Delhi, Medical Council at India Habitat Centre New Delhi on 22nd June, 2013.

Guest lecture on opportunities and challenges in Indian BTS at Annual National Conference of Indian Society of Transfusion Medicine (ISTM) – TRANSmedicon on 14th September, 2013 at Bangalore.

Chairman scientific session XA - on Nucleic Acid Testing at Annual National Conference of Indian Society of Transfusion Medicine (ISTM) – TRANSmedicon on 14th September, 2013 at Bangalore.

Guest lecture on Stem Cell Transplantation – Indian Scenario at Pre-Conference CME on Celluar Therapy SAATM on 3rd October, 2013 at Fortis Memorial Research Center, Gurgoan.

Chairperson scientific session 1 – Seminar on Pathogen Reduction at IX Annual SAATM Conference at Gurgoan on 4-5th October, 2013.

Chairperson scientific session 1 – Seminar on Pathogen Reduction at IX Annual SAATM Conference at Gurgoan on 4-5th October, 2013.

Modular Models to predict blood component transfusion in living donor liver transplantation. (Poster presentation) at 23rd Regional Conference of International Society of Blood Transfusion (ISBT) at Amsterdam, The Netherlands 2-5 June, 2013.

Guest Lecture on Apheresis platelets collection efficiency & maximizing safety at IX Annual SAATM Conference at Gurgoan on 4-5th October, 2013.


Membership of editorial boards of peer reviewed journals
Editor in chief South Asian Association Transfusion Medicine (SAATM) News.
Associate editor Apollo Medicine Bulletin.
Editor in chief South Asian Association Transfusion Medicine (SAATM) News.
Member, Technical Advisory Committee Blood Transfusion Services, Govt. of India.

Member, National Accreditation Committee on Blood Donors, Govt. of India.

Qualified Assessor for NABH certification for Blood Banks.

Member, Task Force on Blood & Blood Safety, Government of India.

Member, Setting of Metro state of art blood banks, Govt. of India.

Member, National Haemovigilance Programme, Govt. of India.

Invited Examinership

External Examiner for post graduate diploma Blood Transfusion & Immuno-haematology, Sheri Kashmir Institute of Medical Sciences, Srinagar, Kashmir, 8–9 May, 2013.


Awards
Felicitated by the Honourable Health Minister of India on 1st October, 2013 (National Voluntary Blood Donation Day) for promotion of voluntary blood donation as Centurion blood donor.

Dr. Rajesh Chawla
Respiratory, Critical Care and Sleep Medicine, Indraprastha Apollo Hospitals, New Delhi

Publications


Guidelines for noninvasive ventilation in acute respiratory failure, Chawla R, Chaudhry D, Kansal et al., Indian J Critical Care Medicine, Supplement 2013 March; 17[5]:42–70.


“New Surviving Sepsis guidelines”, Update on Sepsis, India Habitat Centre, 10 February, 2013.


“Why we should talk about sepsis today”, World Sepsis Day organized by ISCCM, Delhi, 13-Sep–13.

Lectures
Pulmonary Embolism – ICU management, Critical Care Board Webinar Review Course of Indian College of Critical Care Medicine of ISCCM, 12th January, 2013.


Orations
“Why we should talk about sepsis today”, World Sepsis Day organized by ISCCM, Delhi, 13-Sep–13.

Lectures
Pulmonary Embolism – ICU management, Critical Care Board Webinar Review Course of Indian College of Critical Care Medicine of ISCCM, 12th January, 2013.


Moderated a panel discussion on Managing MDR infections”, Cricicare - 2013, 17th Annual Congress of the ISCCM, Kolkata, 3, 4 & 5 March, 2013.


“Non Invasive Ventilation”, Comprehensive Critical Care Course (Course director) - 2013, Kolkata, 08-Mar-13.

“Pulmonary Thromboembolism”, Comprehensive Critical Care Course (Course director) - 2013, Kolkata, 08-Mar-13.

“Coagulation & Anticoagulation”, 4th ECMO training course & Conference 2013 at Apollo Hospitals, New Delhi, 6-8 June 2013.

“Renal issues & Dialysis”, 4th ECMO training course & Conference 2013 at Apollo Hospitals, New Delhi, 6-8 June 2013.

“Decannulation”, 4th ECMO training course & Conference 2013 at Apollo Hospitals, New Delhi, 6-8 June 2013.

“Respiratory ECMO - Indian Scenario”, 4th ECMO training course & Conference 2013 at Apollo Hospitals, New Delhi, 6-8 June 2013.


“Ultrasound in Emergency & Critical Care Course (WINFOCUS USLS BL1-P)”, Medanta The Medicity, 16-17 July 2013.


“Management of Acute Respiratory Failure”, FCCS course held at Medanta – The Medicity Hospital, Gurgaon, 19-20 July 2013.


“Venous thromboembolism and pregnancy”, 5th Apollo Critical Care Conference Taminadu, Dr. MGR Medical University, Chennai, 03-Aug-13.


“Mechanical Ventilation”, Comprehensive Critical Care Course (4c) at Tata Memorial Hospital, Mumbai, 6-8 September 2013.

“Pulmonary Thromboembolism”, Comprehensive Critical Care Course (4c) at Tata Memorial Hospital, Mumbai, 6-8 September 2013.

“Brain Death”, Comprehensive Critical Care Course (4c) at Tata Memorial Hospital, Mumbai, 6-8 September 2013.

“Non invasive ventilation – an overview”, VMMC & Safdarjang Hospital PG Pulmonary Update- 2013, Safdarjang Hospital, New Delhi, 14 – 15 September 2013.


Memorial of editorial boards of peer reviewed journals  
*Indian Journal of Critical Care Medicine*  
*Intensive Care Medicine*  
*Indian Journal of Chest Diseases & Allied Sciences*

**Positions held**  
Vice-President, National College of Chest Physicians (NCCP), 2011-2013.  
Vice Chancellor, Indian College of Critical Care Medicine, 2011-2014.

**Invited examinership**  
National Board for FNB Critical Care

**Membership of editorial boards of peer reviewed journals**  

**Positions Held**  
Treasurer, Delhi Ophthalmological Society, April 2011- April 2013.

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**Dr (Prof) Raju Vaishya**  
*Orthopaedics and Joint Replacement Surgery*, Indraprastha Apollo Hospitals, New Delhi

**Publications**  

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**Orations**  

**Lectures**  

“Modified Insall’s approach for Primary TKA”, *DOACON*, N Delhi, Nov 2013.


“Tuberculosis of the mid foot- a review of 10 cases”, Annual Conference of DOA, Nov 2013.


“Megaprosthetic replacement of the knee in a young boy of 14 years”, Boscon, March 2013.

Membership/Reviewer of editorial boards of peer reviewed journals

BMC Musculoskeletal Disorders
Lancet
British Medical Journal
Journal of Bone & Joint Surgery (Br)
Indian Journal of Orthopaedics
Journal of Orthopaedic Surgery and Research
JIMA
Apollo Medicine
OMICS Group- Medical Journals

Positions held

Awards
Adjunct Professor of Apollo Hospitals for Educational and Research Foundation [AHERF] (2012-13, 2013-14).

Got the honor of doing a bilateral Total Knee Replacement in the oldest couple in a single sitting & created a world record [published in Limca Book of Records and India Book of Records 2013].


Lectures


The 2nd World Congress on Controversies, Debates & Consensus in Bone, Muscle & Joint Diseases (BMJD), Brussels, Belgium, November 21-24, 2013, Invited Chair: “Session on New molecules in development”.

Dr. Ramji Gupta
Dermatology, Indraprastha Apollo Hospitals, New Delhi

Books published
“Can we cure Psoriasis?”, Dr. Ramji Gupta, Prayatna, 2013.

Publications

Lectures
“Prolong Remission of Psoriasis by Azathioprine Pulse Therapy”, Hyderabad (7-8/9/2013) Pemphigus and Pulse therapy Foundation, Delhi (4-7/12/2013) International Conference of IADVL.

Awards
Dr. Sardari Lal Memorial Award, 17/11/2013.

Dr. Rohini Handa
Rheumatology, Apollo Indraprastha Hospitals, New Delhi

Publications


Lectures


The 2nd World Congress on Controversies, Debates & Consensus in Bone, Muscle & Joint Diseases (BMJD), Brussels, Belgium, November 21-24, 2013, Invited Chair: “Session on New molecules in development”.

Dr. Rohini Handa
Rheumatology, Apollo Indraprastha Hospitals, New Delhi

Publications

41st National Conference of Indian Association of Dermatologists, Venereologists & Leprologists- Dermacon 2013, Ahmedabad, January 24-27, 2013, Invited talk: "Recent Investigations in Connective Tissue Diseases”.

Delhi Rheumatology Association Update 2013, New Delhi. February 17, 2013, Invited talk: “Optimum use of Non-Biologic DMARDs in RA- Which drug, what dose, how to monitor, when to change?”

Conference on SLE, Odisha Chapter of IRA, Cuttack. April 24, 2013, Invited talks: “Diagnosis of Lupus: Lessons from real life” and “Minor Organ involvement in SLE- Minor but not unimportant!”


Annual Conference of Delhi Orthopaedic Association, New Delhi, November 9-10, 2013, Invited talk: “Rheumatology-Orthopedics Interface- Name changers & Game changers in 2013”.

Rheumatology Update 2013, Postgraduate Medical Institute, Chandigarh. November 10, 2013, Invited talk: “Gout: Moving from Evidence to Practice”.

15th Postgraduate Instructional Course in Orthopedics, Maulana Azad Medical College, New Delhi, November 13-14, 2013, Invited talk: “Management of Rheumatoid Arthritis”.

Association of Physicians of India-DIAS Programme (Dissemination of Updated Information through API Speakers), New Delhi. November 17, 2013, Invited talk: “Differential Diagnosis & Treatment of Rheumatoid Arthritis”.


Membership of editorial boards of peer reviewed journal
Member Editorial Board, Clinical Rheumatology Member Editorial Board, Current Rheumatology Reports Member Advisory Board, Journal of Association of Physicians of India Member Editorial Board, Indian Journal of Rheumatology Positions held Vice Dean, Indian College of Physicians (2013-2016).

Elected Chair Scientific Committee, Annual Conference of Indian Rheumatology Association (IRACON) 2014, Chandigarh.

Elected Chair Scientific Committee, Asia Pacific League of Associations for Rheumatology (APLAR) Congress 2015, Chennai.

Invited Examinership National Board of Examinations: DNB Rheumatology

Dr. S. K. Agarwal
Internal Medicine, Indraprastha Apollo Hospitals, New Delhi

Awards
Life time achievement award, East Delhi Physicians Association (EDPA).

Dr. Sapna Nangia
Radiation Oncology, Indraprastha Apollo Hospitals, New Delhi

Presentations

Lectures
Radiation Oncology in India: “Into Ever Widening Thought & Action”, Annual Meeting of Indo-American Cancer Association, Nov-13, Atlanta, USA.

Prof. Dr. Shakti Bhan Khanna
Obstetrics & Gynaecology, Indraprastha Apollo Hospitals, New Delhi

Lectures
‘Role of Robotic in Gynae Onco Surgeries’, XXII annual convention Indian Medical Association South Delhi Branch on 3rd Feb 2013.

‘Role of Well Woman Check in Screening for Gynaecological Malignancies’ in 23rd national convention of Forum of Women in Public Sector on 12th February 2013.
‘Gynae Cancer Screening’, Annual conference of Kashmir Medics Association in India, on 28th April 2013.

‘Role of robotic surgery in Gyna Oncology’ in National Oncology CME on 30th June 2013.

‘Endometrial Stromal tumors-then and now’, AOGD monthly clinical meeting on 26th July 2013.

‘Robotic Surgery In Gynaecology’, AOGD monthly clinical meeting on 26th July 2013.

‘Swine flu in pregnancy’, AOGD monthly clinical meeting on 26th July 2013.

Panelist, ‘Paediatric & Adolescent issue’ in AICC-RCOG conference on 1st September 2013.

‘Cervical Cancer in Pregnancy Wait, treat and Interrupt’, on Gynae Oncology on 7th September 2013.

Presentations

Membership of editorial boards of peer reviewed journals
Apollo Medicine, 2013.

Positions held
Member representing India, Asian football confederation ADhOC committee for disorders of Sex development from 2011 to 2015.

Member, south and south east district, Family welfare Govt of NCT of Delhi.

Dr Shuaib Zaidi
Surgical oncology, Indraprastha Apollo Hospitals, New Delhi

Publications in peer reviewed journals


Dr Sohani Verma
Obstetrics & Gynaecology, Indraprastha Apollo Hospitals, New Delhi

Chapters contributed to text books

Publications

Lectures


“Human Oogenesis - Embryology”, Certification Course, 4-6 Dec 2013.


Organized 28th Annual National Conference of AICC RCOG and 9 pre and post Conference Workshops as Organizing Chairperson, 28 Aug - 2 Sept 2013.

Organized RCOG UK Franchised Courses for MRCOG Part II, Basic Practical Skills twice a year, [January and July 2013].

Positions held
Chairperson, North Zone AICC RCOG India, since May 2012 [Five year post].

Vice President, Indian Fertility Society, since 1 April 2012.

Honorary Professor, Centre for Reproductive Biology, Amity University UP, since 5th Dec 2013.

Dr Sohani Verma
Obstetrics & Gynaecology, Indraprastha Apollo Hospitals, New Delhi

Chapters contributed to text books

Publications

Lectures


“Human Oogenesis - Embryology”, Certification Course, 4-6 Dec 2013.


Organized 28th Annual National Conference of AICC RCOG and 9 pre and post Conference Workshops as Organizing Chairperson, 28 Aug - 2 Sept 2013.

Organized RCOG UK Franchised Courses for MRCOG Part II, Basic Practical Skills twice a year, [January and July 2013].

Positions held
Chairperson, North Zone AICC RCOG India, since May 2012 [Five year post].

Vice President, Indian Fertility Society, since 1 April 2012.

Honorary Professor, Centre for Reproductive Biology, Amity University UP, since 5th Dec 2013.
Dr. Subhash Gupta
Liver Transplant Surgery, Indraprastha Apollo Hospitals, New Delhi

Publications


Dr. Subhash Kumar Wangnoo
Endocrinology, Indraprastha Apollo Hospitals, New Delhi

Publications
Wangnoo SK, Bader G, Gawai A, Singh S, “Effectiveness and Tolerability of Vildagliptin in Indian Patients with Type 2 Diabetes Mellitus: Results from Edge–A Real-World Observational Study”, IJCP, 2013; 24(6):537-42.


Presentations


Membership of editorial boards of peer reviewed journals:
Diabetes Technology and Therapeutics Journal of Associations of Physicians of India Indian Journal of Endocrinology Diabetes & Metabolic Syndrome: Clinical Research & Reviews

Lectures

“Role of Sulphonylurea in Gliptin Era”, 5th World Congress of Diabetesindia, Kochi, April 18-21, 2013.


Dr Sundeep Upadhyaya
Rheumatology, Indraprastha Apollo Hospitals, New Delhi
Indian Association Orthopaedics Delhi chapter, 2013 Goa: “Advances in the management of rheumatoid arthritis”.

Delhi Rheumatology Association annual meet 2013: “Approach to MCTD, Sjogrens Syndrome and Other CTDs”.

Clinical Immunology Society of India 2013 Kochi - “Do antiphospholipid antibodies co-relate with clinical features?”

International Conference of Antibodies: 2013, Hangzhou China, “Antibodies to cytokine targets in Rheumatoid Arthritis and Spondyloarthritis: the clinical science and unmet needs. Results of a single centre.”

International Conference of Vaccines: 2013, China, “Immunotherapy and Vaccines for RA and Spondyloarthritis”.


“Role of Sulphonylurea in Gliptin Era”, 5th World Congress of Diabetesindia, Kochi, April 18-21, 2013.

Dr V P Singh
Neurosurgery, Indraprastha Apollo Hospitals, New Delhi

Publications
Progress in Clinical Neurosciences, Volume 27, Jaypee.

Membership of editorial boards of peer reviewed journals
Journal of paediatric neurosciences.

Positions held
Secretary of Indian society for stereotactic & functional neurosurgery, 2013.

Dr. Vinit Suri
Neurology, Indraprastha Apollo Hospitals, New Delhi

Publications


Conducted first summer school of Indian Stroke Association at wild Flower Mashobra, Simla-7 & 8th June 2013, Summer school of Indian Stroke Association, 7- 8- June 2013.

Given talks on
i) Basilar artery occlusion
ii) Thrombolysis Beyond Guidelines
iii) Personalized, prevention of Stroke
iv) Restarting antplatelets anticoagulation after ICh and hemorrhagic stroke.

Positions held
Executive Member, Delhi Neurological Association, 2012-2015
Secretary, Indian Stroke Association, 2012 -2015.

Lectures
“IV thrombolysis vs mechanical thrombectomy in posterior circulation Stroke”, annual DNA Delhi Neurological Association Conference, 02-01-2013.

Dr Yatinder Kharbanda
Orthopedics, Indraprastha Apollo Hospitals, New Delhi

Publications
Yatinder Kharbanda, Mrinal Sharma, AnandVadhera, Vivek Srivastava, Apollo Medicine, December 2013, Volume 10, Number 4, PP.276-279.


Presentations
Chairman, Hip Arthroplasty Cadaver Course at M S Ramaiah Advanced Learning Centre, Bangalore, 30th June 2013.

Faculty, Revision Hip Course at M S Ramaiah Advanced Learning Centre, Bangalore, 24th August 2013.


Infected Total Knee Arthroplasty, 2 stage revision surgery – Annual Conference, Delhi Orthopaedic Association, 9th-10th November 2013.

Course Director, Basic Primary Knee Cadaver Course, Himalayan Institute of Medical Science, Dehradun, November 24th 2013.

Course Director, Basic Primary Knee Cadaver Course, Himalayan Institute of Medical Science, Dehradun, March 2013.

Dr Rajesh Taneja
Urology, Andrology and Robotic Surgery, Indraprastha Apollo Hospitals, New Delhi

Publications
Article review, Testicular function in male patients with lepromatous leprosy, reviewed in March 2013.


Lectures
Delivered a guest lecture to IMA Jalandhar, “Role of Robotic Surgery in Urology”, on 20 December 2013

Conducted a round table meeting with academic forum of doctors at Sarita Vihar on Uro oncology, 28 November 2013.
Delivered a guest lecture in a meeting held by IMA Patiala, “Robotic surgery in Uro Oncology” on 16 November 2013.

Delivered a talk on ‘Role of Robotic Surgery in Urology’ at IMA meeting at Mathura, 31 August 2013.

Chaired a session on “Robotics in Urology” during a CME organized by Indraprastha Apollo Hospitals, New Delhi, 18th July 2013.

Delivered a talk on ‘Role of Robotic Surgery in Urology’ at IMA meeting at Mathura, 31 August 2013.

Chaired a session on “Robotics in Urology” during a CME organized by Indraprastha Apollo hospitals, New Delhi, 18th July 2013.

Delivered a talk on “Role of Robotic Surgery in Urology” at the annual conference of DMA, GPCON 2013 at New Delhi on July 17, 2013.

Delivered a talk on ‘Diseases of prostate in elderly, Benign and Malignant’ on 4th July 2013.

Invited to deliver a talk on ‘Role of Robotic Surgery in Diseases of Urinary Tract’ at CME held at Kabul, 4th May 2013.

Delivered a talk on ‘Robotic Radical Prostatectomy’ during Annual convention of IMA South Delhi Branch, held on 3rd February 2013.

Conducted a training workshop and performed live HoLEP in Vizag, 6 December 2013.

Conducted a mentoring session and demonstrated live the art of HoLEP at Care Hospital, Hyderabad on 25th October 2013.

Conducted a Mentorship program on Holmium Laser Enucleation of Prostate (HoLEP) at Nova Surgical center, Bangalore, on 13th September 2013.

Conducted live operative workshop on Holmium laser enucleation of prostate (HoLEP) at SMS Medical College and hospital Jaipur, 6th July 2013.

Invited to mentor a program of holmium laser prostatectomy (HoLEP) at Nawaloka Hospitals, Colombo, Sri Lanka in 18th May 2013.

Conducted a mentorship program on Holmium Laser Enucleation of Prostate, (HoLEP) at Rama Krishna Mission Hospital, Kolkata on 9th March 2013.

Invited to Demonstrate and supervise HoLEP (Holmium Laser Enucleation of Prostate) at Fortis Hospital Mohali, Chandigarh, on 10th February, 2013.

Conducted a Mentorship program for HoLEP at Apollo Hospitals Kolkata on 4th and 5th January 2013.

National level conferences

Delivered a talk ‘How to prevent Stress Urinary Incontinence during HoLEP’ at the annual conference of Urology society of India held at Pune, 17-20 January, 2013.

Chaired a session on ‘Uro Oncology’ held at the annual conference of Urology society of India held at Pune, 17-20 January, 2013.

Delivered a talk ‘Preventing complications during HoLEP’ during the annual conference of Urology society of India held at Pune, 17-20 January, 2013.


Delivered a guest lecture on Oligo AsthenioTerato spermia During annual conference of north zone Urological society of India, held at Chandigarh on 15th November, 2013

Chaired a session on “Robotic Radical Prostatectomy” during a CME held at Medanta Medcity, Gurgaon on 14th September 2013.

Dr. Anisur Rahman
General Surgery, Apollo Hospitals, Dhaka

Presentations
Poster presentation, World Congress of Surgery, Obstetrics, Trauma and Anaesthesia, October 16-17, 2013, Port of Spain, Trinidad and Tobago.

Dr. Sandip Kumar Dash
Neurology, Apollo Hospitals, Dhaka.

Publications


Hyderabad

Dr. R Paul
Critical Care, Apollo Hospitals, Jubilee Hills, Hyderabad

Member of task forces of Government of India or State Governments


Dr Rachna Vinaya Kumar
Paediatric Ophthalmology and Adult Strabismus, Apollo Hospitals, Jubilee Hills, Hyderabad

Presentation ‘Amblyopia in congenital ptosis– Factors that matter’”, 28th Congress of the Asia Pacific Academy of Ophthalmology in conjunction with the 71st Annual Conference of the All India Ophthalmic Society, Hyderabad, January 2013.
"Amblyopia in congenital ptosis- Factors that matter" at the young ophthalmologists’ session at the American Association for Paediatric ophthalmology and Singapore National Eye Centre collaborated Intercontinental Perspective of Paediatric Ophthalmology and Strabismus, Singapore, July 2013.

Awards
Best rapid fire case presentation in neuro ophthalmology for "Convergence insufficiency in Parkinsons’ disease" at Confluence Eye and Beyond - the International masters’ course in Oculoplasty, Aesthetics, Ocular Oncology, and Neuro-opthalmology, Hyderabad, December 2013.

Dr. Sai Praveen Haranath
Pulmonary & Critical Care Medicine, Apollo Hospitals, Jubilee Hills, Hyderabad

Publications

Vaccine update, B Positive.

Lectures
A prospective observational study on the impact of a structured mechanical ventilation workshop on pre-test and post test assessment, ESICM, Paris 2013.


Positions held
American College of Chest Physicians.

Chair, Disaster Response Network Steering Committee, ACCP till 2015.

Member, Occupational and Environmental Diseases Network Steering Committee, ACCP.

Chest 2013 Liaison: Scientific Program Committee.

Srinivas Jakkinaboina
Critical care medicine , Apollo Hospitals, Jubilee Hills, Hyderabad

Presentations

“Outcomes of sepsis in patients admitted to a tertiary hospital in India after implementation of a sepsis pathway: a retrospective study”, European Society Of Intensive Care Medicine Annual Conference, October 9th 2013, Paris, France.

Publications

Proof-read paper
“A randomised, multicentre, open-label, phase 3 study of panitumumab vs cetuximab for previously-treated wild-type (WT) KRAS metastatic colorectal cancer (mCRC)”, The European Cancer Congress 2013, Session title: GI malignencies - Colorectal Cancer I, Session type: Proffered Papers Session, Abstract number: 18.

Guest of Honour and Guest lecture

Positions Held
Member- National Advisory board, Jawaharlal Nehru Institute of Advanced Studies, 2 years.

Member of task forces of Government of India or state Governments
Hemovigilence committee, NBI, Govt of India, In collaboration with CDSCO, AP branch, 1 year.
Invited examinership
3 thesis as external expert examiner, PhD Review committee, NIMS, Hyderabad.

Dr Sudha Ranganathan
Transfusion medicine, Apollo Hospitals, Jubilee Hills, Hyderabad

Invited speaker
Feb 23rd ISBT Karnataka chapter held at BELLARY – invited to participate on a debate: on “NAT is the need of the hour”.

March 16th, “Safe blood transfusion – a collective responsibility” at LTMG medical college and Sion hospital Mumbai.

March 31st, “Blood transfusion in clinical practice” as a part of annual update on Haematology and Transfusion medicine”, Hyderabad.

May 26, Blood transfusion update for clinicians as a part of Indian Medical Association, Pune.

October 26, “Overview of blood and blood components as a part of CME on blood conservation in cardiovascular thoracic surgeries” Star hospital, Hyderabad.

Nov 7-9th, Attended the National conference of the Indian Association of Hematology and Blood transfusion and presented the topic “Experiences with Autologous Periphera Blood Stem cell transplants”.

November 23rd, JNMC and KLE society Belgaum for the following topics: Recent trends in blood banking, safe blood transfusion, Triggers of blood transfusion.

Lectures
December 1-4, 25th Regional congress of the ISBT at Malaysia and presented a poster on the topic: The impact of Nucelic Acid testing (NAT) in the detection of occult Hepatitis B infection in a blood donor population in India.

Talk on “Role of emergent technologies in blood transfusion”, Nov 12-14th, National Conference of the Indian Society of Transfusion Medicine (ISTM), Bangalore.


Poster presentation- “case of platelet refractoriness, diagnosis and management”, Nov 12-14th, National Conference of the Indian Society of Transfusion Medicine (ISTM), Bangalore.

June 2-5, 23rd regional congress of the ISBT Amsterdam, poster presentation, “Experiences on Autologous Peripheral Blood Stem cell cell”.

Karimnagar
Dr. Pankaj Kumar
Orthopedics, Apollo Hospitals, Karimnagar

Publications
“Experiences on Autologous Peripheral Blood Stem cell collection”, Vox sangunis volume 105 s1 June 2013.

The impact of Nucelic Acid testing (NAT) in the detection of occult Hepatitis B infection in a blood donor population in India, vox sangunis, Dec 2013, volume 105, issue s2 page 91.

Karimnagar
Dr. Pankaj Kumar
Orthopedics, Apollo Hospitals, Karimnagar

Publications
“Experiences on Autologous Peripheral Blood Stem cell collection”, Vox sangunis volume 105 s1 June 2013.

The impact of Nucelic Acid testing (NAT) in the detection of occult Hepatitis B infection in a blood donor population in India, vox sangunis, Dec 2013, volume 105, issue s2 page 91.

Karimnagar
Dr. Pankaj Kumar
Orthopedics, Apollo Hospitals, Karimnagar

Publications
“Experiences on Autologous Peripheral Blood Stem cell collection”, Vox sangunis volume 105 s1 June 2013.

The impact of Nucelic Acid testing (NAT) in the detection of occult Hepatitis B infection in a blood donor population in India, vox sangunis, Dec 2013, volume 105, issue s2 page 91.
Kolkata

Dr Anjan Bhattacharya
Developmental Paediatrics, Apollo Gleneagles Hospital, Kolkata

Chapters contributed to text books

Behavioural Paediatrics, West Bengal Academy of Paediatrics, 2013, “Developmental Coordination Disorder”.

Publications

“What is a multidisciplinary developmental input for a child with special needs?”, Anjan Bhattacharya et. al., Conference brochure publication, Jharkhand State Annual Paediatric Conference, 2013, 13:32-37.


Lectures
Chair, “Paediatric Stroke”, East Zone PEDICON, 17/11/13, Tezpur.
Panel Discussion, “Autism - what’s new?”, GDBP & State PEDICON, 12-08-2013, Kolkata.
Monthly Contact Program, International Teaching Course, DCH/ IPPC, 3rd Sundays/month, AGH, Kolkata.
Monthly Academic Meetings, Child Development Centre, Paediatricians & Developmental Professionals of the metropolis, 1st Thursdays of every month, AGH, Kolkata.
Membership of editorial boards of peer reviewed journals
Associate Editor, Journal of Indian Medico-legal and Ethics Association, since June-2013.
Issue Editor, OMICS, since Dec 2013.

Invited examinership
National Board of Examinations, DNB Centre Appraisal, Tata Memorial Hospital, Jamshednaga, Jharkhand.
Invigilator, Examiner Elect, MRCPCH, UK.

Awards by state or national or international professional bodies
Pioneer, East Zone IAP, 16/11/2013.

Positions held
Organizing Secretary, Preconference Workshop, Growth & Autism, AGH, Kolkata, 12-06-2013.
Jt. Organizing Secretary, National GDBP & WB State PEDICON, Paediatric Annual State & National Chapter Conference, Kolkata, 7-8/12/2013.
Sponsor and Patron, India ICF Group, Kochi, 3-4/12/2013.

Dr Saikat Gupta
Medical Oncology, Apollo Gleneagles Hospitals, Kolkata

Abstract
Acceptance of abstract for poster presentation at the European Breast Cancer Congress at Glasgow.

Dr Binod Kumar Singhania
Neurosurgery, Apollo Gleneagles Hospitals, Kolkata

Publications
“Osteosynthesis a physiological way of managing Hangman’s fracture, Dr Binod Kumar Singhania, Dr Sapna Sirohi”, Apollo Medicine- Sept 2013, Vol 10.

Expert opinion, “City Scientists on way to Dementia Cure”, Times of India, 5th Dec 2013.


Dr Kumud Sankar Ray JIMA Oration, Neurosurgery in present and future, IMA, Kolkata, 2013.

Lectures
C1-C2 Screws are better option for traumatic Dislocation, ANEICON 2013, 17th Nov, 2013.

Dr Vikash K Agarwal
Onco-surgery, Apollo Gleneagles Hospitals, Kolkata

Abstract
Gouri Shankar Bhattacharyya, Hemant Malhotra, Purvish M. Parikh, Kanaka Govindbabu, Tanweer Shahid, Vikash Agarwal, Saumen Basu, Raja Dhar, Sushmita Roychoudhury, Raman Deshpande, Abstract 1356, “Heterogeneity of Adeno carcinoma of Lung - change in Immunohistochemistry and histopathology chacter in patients treated with chemotherapy or EGFR-TKIs”.

Invitations
Dr Anjan Bhattacharya
Invited to present poster at the European Breast Cancer Congress at Glasgow.

Dr Saikat Gupta
Invited to present poster at the European Breast Cancer Congress at Glasgow.

Dr Binod Kumar Singhania
Invited to present poster at the European Breast Cancer Congress at Glasgow.

Dr Chinmay Nath
Orthopaedic Spine Surgery, Apollo Gleneagles Hospitals, Kolkata

Lectures
Lecture delivered at 34th SICOT Orthopaedic World Congress 17-19 October 13, “Management option for tandem spinal stenosis [TSS]”, Hyderabad.

Poster presentation at 34th SICOT Orthopaedic World Congress 17-19 October 13, “A case of post operative spondylodiscitis”, Hyderabad.

Dr. Dev Roy
Head & Neck Oncology And Facial Cosmetic Surgery, Apollo Gleneagles Hospital, Kolkata

Publications

Lectures
Panelist, Rhinology Symposium, 5th Jan 2013.

Complications and how to avoid pitfalls in Botox injections in the face, 13th Annual Plastic Surgery Association State Conference, Ramkrishna Mission Hospital, Kolkata, 17th Feb 2013.

Infections in Head & Neck, Emergency, Apollo Hospital, Kolkata, 12th April 2013.

Allergic rhinitis—Pearle Hotel, Cipla, Kolkata, 27th April 2013.

Surgical management of snoring & sleep apnoea, World asthma day, National Allergic Asthma Bronchitis Institute, Swabhumi, Lupin, 7th May 2013.

Hair transplant workshop, Indore, 2nd June 2013.

Allergic rhinitis Hotel Pearle, Cipla, 3rd August 2013.


Invited Guest speaker and Live Surgery on Rhinoplasty, Koti ENT Hospital, Hyderabad, Organised South Zone All India Otolaryngology Association of India (Feb 2013).

Dr Sudipta Sekhar Das
Transfusion Medicine, Apollo Gleneagles Hospitals, Kolkata

Publications


Invited speaker
Organizing secretary, speaker, Moderator. First Eastern India wet workshop on basic Immunohematology on 20th January, 2013 Kolkata under Indian Society of Transfusion Medicine.

Speaker, Clinical Blood Transfusion Practice on 7th of March, 2013 at Thakurpukur Cancer hospital, Kolkata.

Speaker, Role of Leukoreduction in clinical practice at Fortis Hospital, Kolkata on 23rd March, 2013.

Speaker, Clinical Blood Transfusion Practice at Fortis hospital, Kolkata on 25th April, 2013.

Speaker on “Outcome of platelet transfusion” at the 23rd Regional Congress of the International Society of Blood Transfusion, Amsterdam, The Netherlands, from June 2 – 5, 2013.

Speaker, “Need for safe blood & blood products with special emphasis on use of blood components” at ESI Hospital Kolkata on 12th June, 2013.

Speaker at the Fresenius Kabi Advanced Course on Transfusion Technology July 19, 2013 Taipei, Taiwan.

Guest speaker at the Transfusion Summit – Advancing Practices in Transfusion Medicine September 5-6th, 2013, Phuket, Thailand.

Speaker, “Rational Use of Blood & Blood components” at ESI Hospital Kolkata on 27th September, 2013.

Moderator & Speaker, National immunohematology workshop of Indian Society of Transfusion Medicine, 12th September 2013, Bangalore.

Moderator & Speaker, National conference of Indian Society of Transfusion Medicine, 13-15th September 2013, Bangalore.

Speaker, “Blood Component Therapy” at ESI Hospital Kolkata on 8th November, 2013.
Speaker, CME on "Enhancing Blood Safety through NAT" organized by Apollo Gleneagles Hospitals, Kolkata, 1st December, 2013.

Chairperson
Chairperson, National conference of Indian society of blood transfusion and Immunohematology, 13-15th September 2013, Bangalore.

Chairperson, Fresenius Kabi Advanced Course on Transfusion Technology July 19, 2013 Taipei, Taiwan.

Member of task forces of Government of India or State Governments
External resource person, Transfusion Medicine, National AIDS control organization, Government of India.

Technical expert, Transfusion Medicine & Blood banking, Govt. of West Bengal.

Awards
"Best Scientific paper of the Year Award" in 2013 by Indian Society of Transfusion Medicine, in September 2013, Bangalore.

Dr. Chandrashish Chakravarty
Critical care, Apollo Gleneagles Hospitals, Kolkata
Publications

Dr. Debasish Chowdhury
Nuclear medicine, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books
Current Trends In Cardiology, April 2006, Ramkrishna Seva Pratishthan & Vivekananda Institute of Medical Sciences, “Nuclear Imaging in Cardiology: Current Status”.

Position Held
Secretary, Society of Nuclear Medicine (EC), last 4 years.

Dr. Amitabha Ghosh
Neurology, Apollo Gleneagles Hospitals, Kolkata
Publications

Dr. Sanjay Chatterjee
Diabetology, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books

Dr. Amitabha Ghosh
Neurology, Apollo Gleneagles Hospitals, Kolkata
Publications


Dr. Debasish Chowdhury
Nuclear medicine, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books
Current Trends In Cardiology, April 2006, Ramkrishna Seva Pratishthan & Vivekananda Institute of Medical Sciences, “Nuclear Imaging in Cardiology: Current Status”.

Position Held
Secretary, Society of Nuclear Medicine (EC), last 4 years.

Dr. Sanjay Chatterjee
Diabetology, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books

Dr. Sanjay Chatterjee
Diabetology, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books

Achievements
"FTD: Disorders in disguise", Annual Conference of Indian Academy of Neurology, October 2013, Indore.

Membership of editorial boards of peer reviewed journals
Apollo medicine, since 2013.

Positions held

Dr. Sanjay Chatterjee
Diabetology, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books


“FTD: Disorders in disguise”, Annual Conference of Indian Academy of Neurology, October 2013, Indore.

Membership of editorial boards of peer reviewed journals
Apollo medicine, since 2013.

Positions held

Dr. Sanjay Chatterjee
Diabetology, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books


“FTD: Disorders in disguise”, Annual Conference of Indian Academy of Neurology, October 2013, Indore.

Membership of editorial boards of peer reviewed journals
Apollo medicine, since 2013.

Positions held

Dr. Sanjay Chatterjee
Diabetology, Apollo Gleneagles Hospitals, Kolkata
Chapters contributed to text books


“FTD: Disorders in disguise”, Annual Conference of Indian Academy of Neurology, October 2013, Indore.
Publications


Positions held

- Organizing Chairperson, IDEACON 2013 – the annual conference of the Integrated Diabetes & Endocrine Academy.

Ludhiana

Dr. Anurakti Dev Single

Pedicratic Cardiology, SPS Apollo Hospitals, Ludhiana

Chapters contributed to text books


Publications


Dr. Hitish Narang
Transfusion Medicine, SPS Apollo Hospitals, Ludhiana.

Presentations
Overcoming the challenges of Introducing Leucoreduction, 9th Annual Conference of South Asian Association of Transfusion Medicine, 4-5th October, 2013 at Gurgaon.

Biomedical Waste Management in Blood Bank: An 18 month audit at SPS Apollo Hospitals, Ludhiana, 9th Annual Conference of South Asian Association of Transfusion Medicine, 4-5th October, 2013 at Gurgaon.

Pattern of Blood Procurement and Utilisation at SPS Apollo hospitals, Ludhiana, Punjab, 38th National Conference of Indian Society of Blood Transfusion and Immunohematology, 18-20th October, 2013 at Surat.


Positions held
President, Indian Society of Blood Transfusion and Immunohematology (Punjab Chapter).

Awards
Best Poster Award at the 48th Indian Orthodontic Conference, National conference at Ahmedabad (November 2013).

Dr. G. L. Avasthi
Medicine, SPS Apollo Hospital, Ludhiana

Publications
"Role of Intravenous Immunoglobulin in neurological recovery and its effect on circulating TNF-α levels in Guillain-Barré syndrome", Gurcharan Avasthi, Prashant Bhatt, Amit Kumar Soni, Rajinder Bansal, Journal of International Medical Sciences Academy, Accepted for publication.

Orations
"G.S. Sainani Pushpa Sainani Oration, Cancer Screening- A Physician’s perspective", 21st Annual conference of Indian Association of Clinical Medicine, October 26-27, 2013, Medical College, Kota, Rajasthan, India.

Positions held
President, Punjab Chapter, International Medical Sciences Academy, since 2011.

Invited examinership
DNB-General Medicine
DNB-Family Medicine

Dr. J. Kanna Peruman
Orthodontics, Apollo Hospitals, Madurai

Publications


Lectures

"Osseointegrated implants in Orthodontics", 66th Indian Dental Conference, February 2013, Kolkata.

"Implant Anchors", Indian Dental Association, Tamil Nadu State Conference, December 2013, Pondicherry.

Madurai

Dr. J. Kanna Peruman
Orthodontics, Apollo Hospitals, Madurai

Publications


Lectures

"Osseointegrated implants in Orthodontics", 66th Indian Dental Conference, February 2013, Kolkata.

"Implant Anchors", Indian Dental Association, Tamil Nadu State Conference, December 2013, Pondicherry.

Membership of editorial boards of peer reviewed journals
Associate Editor, Indian Orthodontic Society Times (Official Newsletter of the Indian Orthodontic Society).

Executive Board, Dental Journal of Indian Dental Association, Madurai Branch.

Positions held
Indian Dental Association, State Executive Committee Member (Tamil Nadu).

Executive Member, Indian Orthodontic Society (National Association for Orthodontic Professionals).

Panel member in Colgate oral devices expert group, Representative for Tamil Nadu.

Awards
Best Poster Award, Awarded at the 48th Indian Orthodontic Conference, National conference at Ahmedabad (November 2013).

Dr. Krishnan Swaminathan
Endocrinology, Apollo Hospitals, Madurai

Publications

Mysore

Dr. Raghavendran,
Urology and Transplant Surgery, Apollo Hospitals, Mysore

Membership of editorial boards of peer reviewed journals
Reviewer, American Urological Association’s guidelines for Urotrauma and Cryptorchidism.

Noida

Dr. Bincy Varghese
Dermatology, Apollo Hospital, Noida

Publications

Awards
IADVL Training Fellowship award 2013, Paediatric Dermatology under Dr. G. Sethuraman at AIIMS, New Delhi in August 2013.

WCPD grant from International Society of Paediatric Dermatology (ISPD) for attending the 12th World Congress of Paediatric Dermatology at Madrid, Spain, September 25th to 27th 2013.

Pune

Dr. Jyothi Unni
HOD, Obstetrics & Gynaecology, Jehangir Hospital, Pune

Chapters contributed to text books

Publications

Orations
Prof Tarun Banerjee Memorial Oration on Current Usage of Menopausal Hormone Therapy, 24 Nov 2013 at IMS Kolkata Chapter Annual Conference.

Lectures
Moderator, Panel Discussion on Multi-specialty partnerships in Pregnancy and Delivery, 19 Jan 2013, All India Congress of Obstetricians and Gynaecologists in Mumbai.


Dr. Prasad Walimbe
Ophthalmology, Jehangir Apollo hospital, Pune

Presentations

Combined (small incision cataract surgery) with trabeculectomy with ologen implant (FP-000322), 9th International Symposium of Ophthalmology (ISO 2013), Guangzhou, China (9-11 Nov 2013).

Combined Trabeculotomy with Trabeculectomy in Congenital Glaucoma [FP-000323], 9th International Symposium of Ophthalmology (ISO 2013), Guangzhou, China (9-11 Nov 2013).
Combined Trabeculotomy With Trabeculectomy in Congenital Glaucoma, AAPOS and SNEC Joint Meeting, An Intercontinental Perspective of Pediatric Ophthalmology and Strabismus, Singapore (July 14-16, 2013).

Surgical Techniques in Various Types of Pediatric Cataract, AAPOS and SNEC Joint Meeting, An Intercontinental Perspective of Pediatric Ophthalmology and Strabismus, Singapore (July 14-16, 2013).

Orations


Dr Vikram Padbidri
Microbiology & Infection Control, Jehangir Hospital, Pune

Presentations

Our experience with VAP over three years, Apollo International forum for Infection Control, 5th & 6th January 2013.