



Department of  
**ORTHOPAEDIC SURGERY**  
Ganga Hospital, Coimbatore, India



*Activity Report*  
2019 - 2022

## Founders



Mrs. Kanakavalli Shanmuganathan & Dr. J. G. Shanmuganathan

### Vision

- To showcase to the world the best in patient care, surgical expertise, academics, medical ethics and state-of-the art technology.
- To be a center which will be a pride of our country.

### Mission

- To provide quality treatment at affordable cost so that the expertise will be available to every citizen of our country.



From L to R: Mrs. Rama Rajasekaran, Dr. S. Rajasekaran, Mrs Kanakavalli Shanmuganathan, Dr J.G.Shanmuganathan, Mrs Nirmala Rajasabapathy Dr. S. Raja Sabapathy  
Board of Directors



## Chairman & Head of the Department

*“Small Aim is a Crime”*

*- Shri APJ Abdul Kalam*

Our focus has been on an all-round growth on all the four pillars of Clinical work, Academics, Research and contribution to society. On the research side, we started an '**Advanced Centre for Research for spinal disorders**' with a grant from the Department of Biotechnology, Government of India. The centre has all facilities for an Omics approach for spinal disorders with full inhouse capacity for proteomics, genomic and large data analysis. We are glad that our research has been recognised internationally, having been awarded the 'North American Spine Society award consecutively for four years from 2019-22 and also having won the prestigious ISSLS Research award for the fifth time in 2023. In addition we have numerous other international and national awards.

The years 2019 – 2022 were remarkable with the unforeseen pandemic exerting a major influence on every individual and institution in the world. I am happy to inform that our services in the field of trauma care, orthopaedic and plastic surgery were fully active during this entire period and we performed surgery on more than 12,000 sick patients during this period. During the second and third phase, we created a 110-bed facility for acute care of Covid treating 924 number of patients. I would like to record my deepest appreciation to the nursing, medical and paramedical staff who braved through the entire pandemic and worked selflessly.

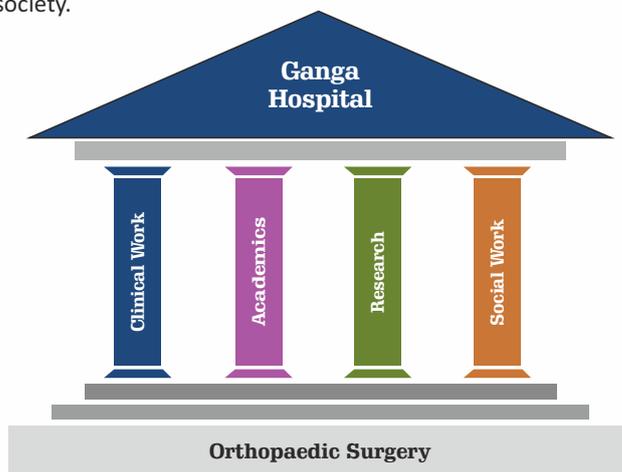
The new 'B' Block was inaugurated in December 2021 which increased our bed strength to 650, the number of operating theatres to 38 making the unit one of the largest in South Asia for the twin specialties of orthopaedic and plastic surgery. The extra facility has allowed us to cater to more than **2,50,000 outpatient visits and 26,000 major surgeries** in 2022. Apart from numbers, we also placed our focus on remaining state-of-the-art by the acquisition of the best in technology in every field of orthopaedics including the purchase of the **fourth generation Robot – VELYS** for improving the precision of joint replacements. A new unit specializing and completely focusing on '**Musculoskeletal Sarcoma and Oncology**' has been started and a multi-disciplinary team with orthopaedic surgeons, oncology surgeons, soft tissue reconstruction surgeons, adult and pediatric chemotherapists. The improved patient outcomes has led us to be judged first among all private hospitals in India continuously for seven years.

**Prof. S. Rajasekaran**

*M.S., DNB., F.R.C.S.(Ed.), M.Ch(Liv), FACS., F.R.C.S.(Eng), Ph.D  
Chairman, Dept of Orthopaedics, Trauma & Spine Surgery.*

We have been enthusiastic on our fourth pillar of 'Giving Back to the Society'. The Ganga Spine Injury Rehabilitation Centre expanded its scope of work to stroke patients and till now has serviced 1780 number of patients. The total subsidy provided to patients to-date exceeds Rs.12.5 Crores. We joined hands with Karur Vysya Bank and Lakshmi Machine Works Limited in providing free or highly subsidized treatment to patients who are ill-afford to bear the cost of major surgeries. I thank both the above organisations, the Rotary Clubs of Coimbatore Central and Sai City and the numerous philanthropical individuals who have helped us to provide free service to the needy.

No growth happens spontaneously. I record our gratitude to all our referring physicians for their support, our patients for their trust and the God Almighty for his continued and abundant blessings. We are committed to pay back His Blessings by constantly improving and dedicating ourselves back to our society.



# Ganga Hospital - The Journey

*The journey of a thousand miles begins with one step*  
- Lao Tzu



## 1978 - 1991

The hospital is named after Shri. J. S. Gangadharan, father of the founder of the hospital, Dr. J. G. Shanmuganathan.

- 17 beds
- Two Operating Rooms



## 1991 - 1996

### The First Expansion

Specialty centre for Orthopaedic Surgery and Plastic Surgery

- 42 beds
- Four Operating Rooms



## 1996 - 2007

### The Second Expansion

Sub-specialty niche areas - Spine, Arthroplasty, Pediatric Orthopaedics, Sports medicine, Brachial plexus injury, etc.

- 135 beds
- Six Operating Rooms



## 2010

### Ganga Institute of Health Sciences

- 10 Courses
- 32 Class rooms
- 13 labs
- 2 "State of the Art" Auditoriums
- In Campus Hostel Facility
- Comprehensive Infrastructure



## 2007 - 2019

### The Third Expansion

Cutting edge technology for "safe surgery" Intra-operative CT navigation (AIRO) Navigation assisted Spine & Arthroplasty

- 500 beds
- 24 Operating Rooms
- Intensive Trauma Care Unit
- Regional Blood Bank
- Bone & Tissue Bank
- In-house radiology department with 1.5 T MRI and 16 slice CT Scan
- In-house Conference facility with 425 seated Auditorium



## 2014

### Ganga Spine Injury & Rehabilitation Centre

- 38 Inpatient beds
- 6 Private Rooms
- 4 Semi Private rooms
- 2 General Wards
- Total Area 1.67 Acres. Building Area 16000 sq ft.
- 7000 sq ft Basketball Ground
- Free Vocational Training Units to learn tailoring, embroidery and umbrella making are available to in-patients and their caretakers



## 2020...

### The Fourth Expansion

- Total of 650 Beds & 38 Operating Rooms
- Addition of one more 3T MRI, 16 slice CT Scan and 6 Digital X-ray Machines
- 120 additional beds and 10 Operation theaters



## 2022

### Ganga Research Centre (GRC)

The basic science research wing of GOREF Jointly funded by the Department of Biotechnology, Government of India

- The new research facility was inaugurated on Feb 6th 2022 and has infrastructure to perform basic research using the Multiomics approach.
- The infrastructure includes
  1. Genomics facility
  2. Proteomics facility
  3. Metabolomics facility
  4. Transcriptomics facility
  5. Bioinformatics facility for big data analysis
- GOREF has established a "Center for advanced Research in Low Back Pain and Degenerative Disc Disease" jointly funded by Department of Biotechnology, Government of India.

Team 2023



“ If you want to walk fast, walk alone - If you want to walk far, walk together ”  
- Ratan Tata



Sitting (L to R) : Dr.Rishi M Kanna, Dr. N. Rajkumar, Dr. SR Sundararajan, Prof. S. Rajasekaran, Dr. J Dheenadhayalan, Dr. T Ajoy Prasad Shetty, Dr. P Dhanasekara Raja, Dr. K. Venkatadass  
Standing 1st Row (L to R) : Dr BRW Armstrong, Dr.SP Sivakumar, Dr. Devendra A, Dr.Arun Kamal C , Dr.Velmurugesan P, Dr. Ramesh Perumal, Dr. Mohammed Zackariya,

*Clinical Division*

**Prof. S. Rajasekaran**  
Chairman

*Consultants*

<b>Dr. J Dheenadhayalan</b> Complex Trauma Reconstruction Upper Limb Surgery	<b>Dr. T Ajoy Prasad Shetty</b> Spine Surgery	<b>Dr. SR Sundararajan</b> Arthroscopy & Sports Medicine	<b>Dr. P Dhanasekara Raja</b> Arthroplasty
<b>Dr. N. Rajkumar</b> Arthroplasty	<b>Dr. K. Venkatadass</b> Paediatric Orthopaedics	<b>Dr. P. Rishi Kanna</b> Spine Surgery	<b>Dr. Devendra A</b> Trauma Surgery
<b>Dr. Ramesh Perumal</b> Trauma Surgery	<b>Dr Arun Kamal C</b> Trauma Surgery	<b>Dr Mohammed Zackariya</b> Trauma Surgery	<b>Dr. Velmurugesan P</b> Trauma Surgery

*Associate Consultants*

<b>Dr. Roy Wilson Armstrong</b> Trauma Surgery	<b>Dr. S. P. Sivakumar</b> Trauma Surgery
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*Senior Registrars*

<b>Dr. R. Ramakanth</b> Arthroscopy & Sports Medicine	<b>Dr. Sri Vijay Anand K.S</b> Spine Surgery	<b>Dr. Soundararajan</b> Arthroplasty	<b>Dr. Muthukumar</b> Trauma Surgery
<b>Dr. Raja Bhaskara Kanakeshwar</b> Musculoskeletal Oncology & Arthroplasty		<b>Dr. Terence Dsouza</b> Arthroscopy & Sports Medicine	<b>Dr. Karthik Ramachandran</b> Spine Surgery

*Department Secretaries*

Mr. V Mohana Krishnan, Mr. G Prabhu, Mrs. R Radha, Mr. Bala Krishnan



**Prof. S. Rajasekaran**

M.S, DNB, F.R.C.S.(Ed), M.Ch(Liv), F.A.C.S, F.R.C.S.(Eng), Ph.D,  
Chairman, Dept of Orthopaedic, Trauma & Spine Surgery.

Dr Rajasekaran had a brilliant academic career and was the 'Best outgoing student' of Coimbatore Medical College and stood first in the University of Madras in the orthopaedic post-graduate examinations. He was awarded the Khazenifer Gold Medal and Norman Roberts Medal for best performance during his M.Ch exams in Liverpool, UK. He completed his Ph.D in 2000.

He has special interest in spine surgery, arthroplasty and clinical research in spine and major trauma. He has led the unit's basic science research in spinal deformities, disc nutrition and biology and genetics of disc degeneration which have been recognised with numerous awards and published in international journals. He was also instrumental in the evolution of 'Ganga Hospital Open Injury Severity Score' which guides critical decisions in saving and reconstructing severely injured limbs.

He has also been passionate about road safety and preventing unnecessary loss of lives on roads with the successful PIL in the Supreme Court and also being the Managing Trustee of UYIR, an NGO for road safety in Coimbatore city.

**Academic:**

- Chairman, Dept of Orthopaedic & Spine Surgery
- Adjunct Professor, The Tamilnadu Dr MGR Medical University.
- Hunterian Professor, Royal College of Surgeons of England, 2011 - 12

**Current Positions:**

- President, Asia Pacific Spine Society 2021 - 2022

**Past Positions:**

- Chair, AOSpine International Board 2019 - 2021
- President - SICOT 2016 - 2018
- President- Cervical Spine Research Society-AP, 2017-2018
- Chair, International Research Commission- AOSpine, 2015 - 2017
- President - Indian Orthopaedic Association 2011-2012
- President - International Society for the Study of Lumbar Spine, Canada, 2011 - 2012
- President - Association of Spine Surgeons of India, 2008 - 2012
- President - Tamilnadu Orthopaedic Association, 2012

**International Awards:**

- NASS Outstanding Paper Award, 2019, 2020, 2021 & 2022
- ISSLS Spine Research Award 2004, 2010, 2012, 2017 & 2023
- ISSLS Best Clinical Science and Basic Science Award – 2021
- SICOT Pioneer Award 2022 - Best Research Paper Awards.
- SICOT Research Award 2021 - Best Basic Science Paper.
- Asia Pacific Orthopaedic Association – Best Presentation Award- Infection Category– 2021
- Cited in Top 2% of world scientists contributing to orthopaedic surgery by the Stanford University group, USA from 2020 to 2022
- Asia Pacific Spine Society Best Clinical Research Award for 2019
- Asia Pacific Spine Journal Award for Best Clinical Paper for 2019
- Asia Pacific Spine Society Basic Science Research Award for 2019
- Asia Pacific Spine Journal Award for Best Basic Science Paper for 2019
- Hunterian Professorship of the Royal College of Surgeons of England 2012
- Walter P. Blount Humanitarian Award, Scoliosis Research Society, USA -2015
- EuroSpine Open Paper Award 2008
- Honorary Fellowship, Royal College of Surgeons of England, 2010
- ISSLS Macnab La Rocca Award 2005, 2014
- ISSLS Sofamer Danek Award 1996, 2002, 2006
- Harvard Medical International Award, 2007

**National Awards:**

- JC Bose Lifetime Achievement Award 2023 by Indian Science Monitor
- ASSI Clinical Research Award 2022
- CME Dronacharya Award 2021 for continuous education of Doctors across India.
- ASSI Basic Science Award -2020
- ASSI Publication Award – 2019, 2020, 2021 & 2022
- ASSI Clinical Research Grant Award 2019
- Lifetime Achievement award 2019 by COS
- Hari Om Ashram Alembic Research 2017
- Golden Jubilee Research Award IOA 2010
- MCI Silver Jubilee Research Award 2002
- Tamilnadu Government Scientist Award 2000
- ASSI Research Awards 2005,06,07,08,09,10,14
- ASSI Publication Award 2013 to 2016, 2018
- Hari Om Ashram Alembic Research Award 2004

**Textbooks**

- Chief Editor, ASSI Textbook of Spinal Infections & Trauma
- Chief Editor, Video Atlas of Spine Surgery
- Editor, Textbook of The Spine, Medical & Surgical Management

**Journals**

- European Spine Journal - Past Editorial Board Member.
- Spine - Deputy Editor.
- JBJS - Deputy Editor.
- Journal of Orthopaedic Surgery, Hong Kong - Editorial Board Member
- Journal of Orthopaedic Science, Japan - Editorial Board Member

**Academic:**

- Chairman, Dept of Plastic, Hand and Microsurgery, Burns and Aesthetic Surgery
- Hon Consultant, Armed Forces Medical Services of India
- Sushruta –Guha Professor of Plastic Surgery and Wound Healing, Royal College of Surgeons of Edinburgh - 2016

**Leadership in Professional Bodies:**

**Current Positions:**

- Immediate Past President: Asian Pacific Federation of Societies for Surgery of the Hand (APFSSH)
- President Elect: International Federation of Societies for Surgery of the Hand (IFSSH)
- Editor-in-Chief: Journal of Hand Surgery (Asia Pacific)
- Vice-President - Diabetic Foot Society of India

**Past Positions:**

- President, Association of Plastic Surgeons of India
- President, Indian Society for Surgery of the Hand
- President, Indian Society for Reconstructive Microsurgery
- President, Brachial Plexus Surgery Group of India
- President, International Trauma Care (Indian Section)

**International Awards:**

- Douglas Lamb Lecturer of the British Society for Surgery of the Hand
- AC Boonzaire Lecturer of the South African Society for Hand Surgery
- Shivas Medal of Central Traumatology Institute, Moscow
- Global Alumni Award for Service to Humanity, Rotary Foundation
- Bangladesh Society for Surgery of the Hand Award
- Honorary Memberships of the Royal College of Surgeons of Glasgow, British Society for Surgery of the Hand, South African Society for Hand Surgery, Serbian Microsurgery Society
- Visiting Professor at the Mayo Clinic, Yale, Washington University
- Invited International Member of the American Association of Plastic Surgery

**National Awards:**

- Silver Jubilee Oration Award of AIIMS, 2015
- Gilles Oration, 2013, Mukerjee Oration 2008, Peet Prize 1993, 2002, NH Antia Prize, 2006, 2008,2019, RN Sinha Award 2003 of APSI
- Tamilnadu Scientist Award 2007
- Conferred Doctor of Science (Honoris Causa) of Dr MGR Educational&Research Institute
- Delivered 30 Eponymous Orations in Professional Associations

**Textbooks**

- Co Author- Microsurgery Practice Manual
- Editor, Text book of Plastic Surgery, Hand Section
- Authored 47 book chapters

**Journals**

- Editor, Indian Journal of Plastic Surgery (1994-99)
- Regional Editor, Plastic and Reconstructive Surgery Global Editorial Board
- Dy Editor, Hand Surgery, Asia Pacific Volume
- Guest Editor, in international journals, Seminars in Plastic Surgery, Hand Clinics and Injury

**Editorial Board Member**

- Hand (American Association of Hand Surgery)
- Techniques in Hand and Upper Extremity Surgery
- Hand Surgery (Springer)



**Dr. S. Raja Sabapathy**

M.S. (Gen),M.Ch, (Plastic),DNB (Plastic), FRCS (Edin.),  
Hon FRCS (Glas),FAMS, D.Sc (Hon)

Chairman, Division of Plastic Surgery, Hand Surgery,  
Reconstructive Microsurgery and Burns

Dr Raja Sabapathy, Chairman, Department of Plastic, Hand and Reconstructive Microsurgery and Burns graduated as the Best Outgoing Student of Stanley Medical College, standing first in Medicine and Surgery in the Madras University.

His chief interests are Hand Surgery, Microsurgery and complex reconstruction following trauma, cancer and burns.

2024 Surgeons from 68 countries have visited the Plastic Surgery department to observe the surgical procedures and system of care.. Organizations like Resurge Africa, B First, Medecins San Frontiers (MSF) IMET 2000, CoRSU Uganda, Rotary International have partnered with the unit for capacity building across the world. Recognizing his Leadership qualities in putting India in the World map of Reconstructive Surgery, the Association of Plastic Surgeons of India has instituted the APSI – Raja Sabapathy Leadership Award to recognize future leaders in the field.

He is passionate to provide free reconstruction for burn survivors through the project, "Hope after Fire", an initiative with Rotary Club of Coimbatore Metropolis.



**Dr. J. Dheenadhayalan**

M.B.B.S, D.Ortho, DNB Ortho.,  
Senior Consultant &  
Director of Trauma Services  
Chief of Shoulder & Elbow Surgery

**Leadership in Professional Bodies:**

Past President -  
Tamilnadu Orthopedic Association 2019

**Dr. J. Dheenadhayalan** joined the department in 1992 after basic training at Mysore Medical College. He had his advanced training at Nuffield Orthopaedic Center and Milton Keynes General Hospital UK and fellowship training in joint replacement at Tübingen and Regensburg, Germany. He is a Founder member of the APOA trauma section. He is a life member of Shoulder Society of India. He was the editor of Tamil Nadu Orthopaedic Journal. His field of interests are shoulder surgery and surgery in complex trauma situations. He was the first Indian to perform Live Webcast on Nailing in open fractures from Muttensz, Switzerland. He was the Past President of Tamil Nadu Orthopaedic Association and received the Prestigious A.K.Gupta Trophy which is the Best Chapter Award under Indian Orthopaedic Association. Presently he is the Country Education Chair for AO Trauma.

**International Awards:**

- "SICOT Best Paper Award" SICOT Meeting, San Diego, USA. Aug, 2002
- "ISSLS - Sofamer Danek Award", Best Clinical Research Paper, Singapore, 1996

**National Awards:**

- Delivered Silver Jubilee Oration Lecture at Association of Orthopaedic Surgeon Indore on 11th September - 2022
- Prof P. Dhanarajan Gold Medal - TNOA 2017
- Professional Achievement Award Spot Hospital - 2014
- Prof P. Dhanarajan Gold Medal - TNOA 2013
- Best Paper Award AO Trauma India - 2012
- Prof. P. Dhanarajan Gold Medal for Innovation in Trauma, TNOA - 2011



**Dr. S. R. Sundararajan**

M.B.B.S, M.S (Orth).,  
Senior Consultant,  
Arthroscopy and Sports Medicine

**Leadership in professional bodies:**

President - Tamilnadu Arthroscopy Society  
Committee Member - ISAKOS - Leg, Foot & Ankle  
Past Secretary - Indian Arthroscopy Society  
Past President - Indian Foot and Ankle Society  
Past President - Indian Association of Sports Medicine  
ISKSA - Executive Member

**Dr. S.R. Sundararajan** joined the department in 1997 and working as a Senior Consultant in Arthroscopy, Sports Medicine and Foot & Ankle Surgery. After finishing his post graduation training, he had advanced training in Flinders Medical Centre in Australia and also short-term training at Arthroscopic Centres in France and Cape Town, South Africa. He had won the Best Paper Awards in Indian Arthroscopy meetings of 2008 and 2013 and medals in 2013, 2014, 2017 and 2022 of TNOA. He is conducting Ganga Arthroscopy course and rehabilitation course every alternate years with attendance of around 500 delegates. He finished his presidential post in the Indian foot and ankle society and Indian Association of Sports Medicine. He served as secretary of Indian Arthroscopy society and conducted IAS ONE programmes in different parts of India. He also conducted successful annual meeting of Indian Arthroscopy society in Coimbatore with record 37 live surgeries, attended by more than 1100 delegates. He is also the regular faculty in national and international conferences including ISAKOS.

**National Awards:**

- Best Publication award - Indian Arthroscopy society. 2022, 2017, 2016
- Foot and Ankle Subspecialty Medal - Tamil Nadu Orthopaedic Association, 2018
- Best paper award - Indian Arthroscopy Society, 2013
- Prof Ramanathan consultant Gold medal - TNOA 2013
- Prof Ramanathan consultant Gold medal - TNOA 2014
- Prof Ramanathan consultant Gold medal - TNOA 2022
- Best paper award - Indian Arthroscopy Society 2008

**Dr. Ajoy Prasad Shetty** joined the department in 1994 and became a consultant in 2000. Initially trained in Orthopaedics at Bangalore Medical College, he had advanced training in Spine Surgery at The Queen Elizabeth Hospital, Adelaide, Australia. He is a Senior Consultant in the department of Orthopaedics and Spine surgery and also the co-ordinator of the FNB Spine Surgery Courses. He is involved in various research activities of the department and has got 273 publications. He has won various national and international awards. He is also an associate editor of the Journal of Orthopaedics and Journal of Musculo- skeletal disorder and is a editorial board member of Indian Spine Journal and Asian Spine Journal.

**International Awards:**

- ISSLS Spine Research Award - 2004, 2010, 2012, 2017 & 2023.
- NASS Outstanding Paper Award, 2019, 2020, 2021 & 2022.
- ISSLS Best Clinical Science and Basic Science Award - 2021.
- SICOT Member Award - 2021
- Asian Spine Journal Award for Best Clinical Paper - 2019
- ISSLS-Sofamer Danek Award - 1996, 2002, 2006.
- Brit-Spine Award Best Basic Science Research Presentation Award, 2004.
- Macnab LaRocca Research Award for the year 2005 (ISSLS) Canada.
- ISSLS International Fellowship Award 2007, ISSLS, Hong Kong.
- Eurospine Open Paper Award : 2008.

**National Awards:**

- Prof. TK Shanmughasundaram Gold Medal for best paper in TNOA, 1996
- RC Rallan Gold Medal for Basic Science, IOA 2011.
- Prof Ramanathan Consultant Medal, TNOA 2011
- Lifetime Achievement Award 2022 - Spinal Cord Society.



**Dr. Ajoy Prasad Shetty**

M.B.B.S, D.Ortho, DNB Ortho.,  
Senior Consultant & Spine Surgeon,

**Leadership in Professional Bodies:**

Chairman - AO Spine India  
Interim chair - Education committee - APSS  
Co chair - ASSI Education Committee  
Past Secretary & Treasurer - ASSI  
Member -  
SRS, NASS, SICOT, WOC, IOA, TNOA

**Dr. P. Dhanasekara Raja** joined the department in 2002 and is a Consultant Joint replacement surgeon. After his basic training in orthopaedics he has completed Fellowships in Arthroplasty at Adelaide & Sydney, Australia, Hospital for Special Surgery, New York, USA, APOA Travelling Clinical Arthroplasty Fellowship in 2010 and Diploma in Tissue banking from the National University of Singapore with distinction. His area of expertise includes primary & revision total knee and hip replacements, trauma surgery and tissue banking. His surgical skills and clinical research in arthroplasty is well recognised & has received many accolades.

**International Awards:**

- Distinction in NUS/IAEA "Diploma in Tissue Banking" exam, 2008, Singapore
- Best paper award, Asia Pacific Arthroplasty Society Meeting, 2018, Bangkok.

**National Awards:**

- Indian Orthopaedic Association Annual Conference, IOACON 2018.
- Indian Society of Hip & Knee Surgeons Meeting 2017.
- Indian Arthroplasty Association Annual Conference, IAACON 2004 & 2013.
- Best paper award - Ranawat Orthopaedic Conference 2012
- TNOA- Annual Conference, 2003, 2009, 2010, 2012
- Indo German Orthopaedic Foundation Meeting, IGOF 2005.

**Text book Chapters:**

- Text book of Orthopaedic Surgery, Kulkarni.
- APAS Delta Compendium.
- Knee Arthroplasty, New & Future Directions.

**Journals Reviewer:**

- Journal of Arthroplasty, USA,
- Journal of Orthopaedic Surgery, Hong Kong,
- Indian Journal Of Orthopaedics.



**Dr. P. Dhanasekara Raja**

M.B.B.S, D.Ortho, DNB Ortho.,  
Senior Consultant & Arthroplasty Surgeon

**Leadership in Professional Bodies:**

Education Chair, ISHKS(2023-25)  
Membership Chair, ISHKS (2021-23)  
Executive council member, TNOA (2022-24)  
Executive council member,  
Indian Arthroplasty Association (2013-14)  
Secretary - COS (2019-2021)  
Member :  
IOA, TNOA, APOA, APAS, ISHKS, IAA



**Dr. N. Rajkumar**

M.B.B.S, M.S (Orth),  
Senior Consultant & Arthroplasty Surgeon  
Leadership in Professional Bodies  
**Membership Chair -**  
Indian Society of Hip & Knee Surgeons (ISHKS)  
**Executive Committee Board Member -**  
Indian Arthroplasty Association (IAA)  
Indian Orthopaedic Association (IOA)  
**Life Member -**  
IOA, TNOA, APOA, APAS, ISHKS, IAA, AAHKS

**Dr. N. Rajkumar** is a Consultant in Joint Replacement surgery. He is a specialist in Hip & Knee replacements, both primary and complex revision procedures and Partial knee replacements. He underwent his advanced training in Arthroplasty and Traumatology at Flinders Medical Centre, Adelaide and Prince Charles Hospital, Brisbane, Australia and Hip & Knee Revision surgery fellowship in Belgium. Has won Best Paper awards in national level ISHKS meetings and Traveling Fellowship Award of Japanese Orthopaedic Association. He is a regular faculty in national & international meetings of arthroplasty and has published many research articles in indexed journals and chapters in reputed journals.

**International Awards:**

- Travelling Fellowship award, Japan Orthopaedic Association 2008”
- Podium Presentation in SICOT meeting, Montreal, Canada 2018

**National Awards**

- Best Research Paper Award, ISHKS 2015, Mumbai
- First Prize in the CTLS Course, International Trauma & Critical Care Society Meeting 2007

**Author in Text Books :**

Asia Pacific Arthroplasty society Delta Compendium

**Reviewer in Indexed Journal :**

The Journal of Arthroplasty  
The Journal of International Medical research



**Dr. Rishi Mugesh Kanna**

M.B.B.S, MS Ortho, MRCS, FNB Spine  
Consultant & Spine Surgeon,

**Leadership in Professional Bodies:**

Associate Member -  
AO Spine Knowledge Forum.  
Research Officer – AO Spine India  
Treasurer and Jt Secretary - ANBAI  
Committee member - ASSI.  
Editorial Board member - ESJ.  
**Reviewer -**  
ESJ, ASJ, GSJ, IJO, BMC, ISJ.

**Dr. Rishi Kanna** finished his graduation from the Madurai Medical College in 2002, where he was the best outgoing student with four gold medals. He pursued his post graduation from Post graduate Institute at Chandigarh. He was elected as a member of Royal College of Surgeons of Edinburgh in 2007. He completed the fellowship training in spine surgery at Ganga Hospital and advanced FNB spine surgical fellowship at Nottingham, England. He delivered the Silver Jubilee Oration of Indian Orthopedic Association at Hyderabad in 2014. He recently was awarded the Best Clinical Research award by the North American Society of Spine Surgeons. His clinical interests include back pain, spondylosis, spinal infections, trauma and deformities. His research focus includes genetics of disc disease, cervical spine imaging and spinal trauma techniques.

**International Awards:**

- Best Clinical Research award - North American Society of Spine Surgeons, Chicago 2022.
- Best Podium Presentation - British Association of Spine Surgeons, 2011
- IOA Hong Kong - Young Ambassador Award 2013

**National Awards:**

- ASSI Best Research Award 2009
- Dr VT Ingalthalikar Gold medal 2009
- Prof A Subramanian Best Research Paper Award 2009
- ASSI Best Clinical Research Award 2010
- ASSI Best Basic Science Research Award 2011
- Dr RC Rallan – IOA Best basic science research award 2012
- IOACON Silver Jubilee Oration 2014
- TNOACON Basic Science Research Award 2015
- TNOACON Best published paper award 2015 & 2018
- TNOACON President’s appreciation award 2022

**Dr. Venkatadass K** is the head of the Paediatric Orthopaedic division of the Department of Orthopaedics and Spine Surgery at Ganga Hospital. After completing his basic Orthopaedic training at KMC, Mangalore he had further specialized training in Paediatric Orthopaedics and Limb reconstruction. He had his Hip Preservation Fellowship at Rady Children's Hospital, San Diego, USA. He was part of the research team that won the Eurospine Award in 2008. He got the IOA Young Ambassador Award in 2016 and won the IOA Silver Jubilee Oration in 2018. He has won Gold Medals in many National Conferences and is a invited faculty in paediatric orthopaedic meetings across the country. He has many international publications and has authored three book chapters. His main area of interests are Paediatric Trauma and Hip Preservation Surgery.

**International awards:**

- Orthopediatrics SICOT Best Poster Award, SICOT 2022 (Co-author)
- POSNA COUR Scholar, 2019
- Eurospine Open Paper Award 2008
- Best Publication Award, ISSICON 2009
- IOA Young Ambassador Award 2016

**National Awards**

- Best Paper Award, POSICON 2023, 2011
- Prof K Sriram Gold Medal for Paediatric Orthopaedics, TNOA 2022
- IOA Silver Jubilee Award, 2018
- Dr SS Yadav Gold Medal, IOACON 2017
- Dr Joy Patankar Gold Medal, IOACON 2014
- P. Dhanarajan Gold Medal for Innovation in Trauma, TNOA, 2009, 2018

**Journals:**

- Associate Editor, Indian Journal of Orthopaedics.



**Dr. Venkatadass K**

M.B.B.S, M.S (Orth),  
Consultant, Paediatric Surgery.

**Professional Memberships:**

Treasurer, POSI (POSI 2023-2026)  
Affiliate Member, POSNA  
Member of Academic Sub-Committee of IOA

Member of AO Trauma  
Member of Specialist Board of  
National Board of Examinations

**Life Member :**

IOA, POSI, TNOA, IAS  
Associate Editor - IJO  
Reviewer - IJO, JCO, PORS

**Dr Ramesh Perumal** had his basic orthopaedic training at Kilpauk Medical College, Chennai in 2004 and completed his Diplomate National Board in Orthopaedics from Ganga hospital in 2006. He joined the unit as a registrar in 2007 and became a senior registrar in 2009 and promoted as Associate consultant in 2013. He completed pelvi- acetabular and geriatric trauma fellowship in the University of Johannes-Gutenberg, Mainz, Germany and Medical University of Innsbruck, Austria in 2014. He is a invited faculty for pelvi-acetabular workshop and delivered many lectures including live surgical demonstrations. He has presented more than 100 presentations and 30 publications in the field of trauma surgery and pelvi-acetabular fractures. Currently working as Associate Consultant in Trauma surgery.

**National Awards:**

- PG quiz in 2005 state conference
- Clinical commitment award as the best outgoing student in DNB training period.
- He received the Prof M. Natarajan gold medal in TNOACON 2010
- RC Rallan Gold Medal for basic science research in IOACON 2013 and 2015.
- Innovative Award, work on posterior wall fractures of the acetabulum AOPAS 2018



**Dr Ramesh Perumal**

M.B.B.S, D.Ortho, DNB Ortho.,  
Consultant & Trauma Surgeon

**Professional Memberships:**

Life Member :  
Indian Orthopaedic Association  
Tamilnadu Orthopaedic Association  
AO Trauma Membership  
Pelvi-Acetabular Surgeons of India



**Dr. A. Devendra**

M.B.B.S, DNB Ortho.,  
Consultant, Trauma Surgery.

**Professional Memberships:**

Life Member :  
Indian Orthopaedic Association  
Tamilnadu Orthopaedic Association  
AO Trauma, GOSI, AOPAS, SICOT

**Dr. A. Devendra** has completed orthopedic training at Ganga hospital and is currently working as a Trauma specialist Consultant. His special interest is in treating major open injuries, long bone defects, and Non-unions. He is the scientific and processing manager of Ganga hospital Tissue bank since 2008. He completed a trauma fellowship at the University of Innsbruck in 2011 and is involved in training trauma fellows and post-graduates. He is the recipient of 5 Gold medals in the national and state meetings, and authored 36 publications including two book chapters.

**National Awards:**

- Best student of the Year 2006.
- Prof M. Natarajan Gold medal for trauma in 2008.
- Prof M V Daniel Gold medal 2009.
- Prof A A Mehta Gold medal for Trauma 2015.
- Prof Bakshi Gold medal 2017.
- Prof Ramanathan Gold medal for Consultants



**Dr. P. Velmurugesan**

M.B.B.S, M.S. Orthopaedics.,  
Consultant, Trauma Surgery.

**Professional Memberships:**

Life Member :  
Indian Orthopaedic Association  
Tamilnadu Orthopaedic Association  
AO Trauma Membership

**Dr. P. Velmurugesan** completed his M.B.B.S., and M.S. Ortho from Sri Ramachandra university, Chennai, Tamil nadu in 2006 and 2011 respectively. He was awarded the best outgoing student medal during his postgraduate training. He joined the Department of Orthopaedics at Ganga hospital in 2013 and was promoted to Associate Consultant in Trauma surgery in 2017. In 2018, he completed the AO Master's course on Lower limb trauma in 2018 in Davos. He has presented papers at various state and national level conferences and served as a scientific committee member in Ganga trauma conferences in 2016, 2018 and 2022. He has four international publications. Special interest lies in the field of limb reconstructive surgery and deformity correction.

**National Awards:**

- Prof. Xavier Medal for hand surgery - TNOACON 2017, Coimbatore.
- International Research Grant : AO TAP Research Grant for the year 2021.
- AO TAP Research Grant for the year 2022.



**Dr. C. Arun Kamal**

M.B.B.S, M.S Ortho, DNB Ortho,  
Consultant & Trauma Surgeon

**Professional Memberships:**

Life Member :  
IOA, TNOA, AO Trauma,  
Indian Foot and Ankle Association

**Reviewer -**

European Journal of Orthopaedic  
Surgery and Traumatology

**Dr. C. Arun Kamal** completed his orthopaedic training from Govt. Kilpauk Medical College, Chennai, in 2008. He joined the Department of Orthopaedics at Ganga hospital in 2009 and was promoted as Associate Consultant in Trauma surgery in 2014. He has completed AO Advanced and AO Master's course on Pelvic-acetabular trauma. He has completed a six-week Foot and Ankle Surgeries fellowship with Professor Dr Rajiv shah in Vadodara. He is particularly interested in complex trauma involving lower extremities and foot and ankle surgeries. He won the prestigious Dr Bakshi Gold Medal at the IOA conference in Kolkata in 2019. He won the Best Publication Gold Medal at the TNOA Conference held at Vellore in 2020.

He has presented more than 20 scientific papers at Tamilnadu state and national conferences. He has worked as a scientific committee member at Ganga Operative Trauma conferences in 2016, 2018 and 2022. He has many Publications in renowned Orthopaedic Journals.

**National Award:**

- "Dr Bakshi Gold Medal in 2019

**Dr J. Mohamed Zackariya** completed his M.B.B.S., and M.S. Ortho from Al-Ameen Medical College, Bijapur, Karnataka in 2005 and 2007 respectively. He has joined Department of Orthopaedics at Ganga hospital in 2011. He was promoted as Associate Consultant in Trauma surgery in 2017. He has completed AO Master's course on Pelvi-acetabular trauma in 2017 at Bankoke Thailand and AO Master in lower limb trauma in Davos ,Siwis.2019 He has presented many papers at various state and national level conferences. He has worked as scientific committee member in Ganga Trauma conferences in 2016 and 2018. He has three national & international publications.

**National Award:**

- Prof M. Natarajan Gold medal for trauma in 2008.



**Dr J. Mohamed Zackariya**

M.B.B.S, M.S Ortho.,  
Consultant & Trauma Surgeon

**Professional Memberships:**

Life Member :  
Indian Orthopaedic Association  
Tamilnadu Orthopaedic Association

## Department of Anaesthesia

The Department of Anaesthesia offers complete and comprehensive perioperative care for every surgical patient. This encompasses Pre Anaesthesia Evaluation and Prehabilitation, Intraoperative Care aided with the state of the art monitoring and a comfortable postoperative care with emphasis on Pain relief, Early Mobilisation and Rehabilitation. Our dedicated team of anaesthesiologists are available round the clock and look after the surgical patients in the wards, High Dependency Unit, Postoperative Unit and Intensive Care Unit. The department utilises cutting-edge technology and advanced techniques and provides patient-centric perioperative services.

Trauma Resuscitation and Optimisation are spearheaded by the Anaesthesia team. Pain relief on Arrival is a unique concept evolved and practised here. We use Ultrasound Guided Nerve blocks to provide instant pain relief to an injured patient immediately on arrival to the hospital. All the patients undergoing surgery receive Multimodal Analgesia and an Ultrasound guided selective nerve block. This helps to considerably decrease the pain and facilitates early return to normalcy.

The 38 Operation theatres are equipped with the state of the art Anaesthesia Workstations, Multiparameter monitors, Infusion pumps for Total Intravenous Anaesthesia and Target Controlled Infusion, Online fluid warmers, Body Warmers, Rapid blood transfusion systems, Depth of Anaesthesia Monitoring and specialised monitoring for the functions of the spinal cord. We ensure the highest level of safety and precision. Blood conservation strategies are implemented and protocols are followed to minimise blood loss during surgery. The availability of an inhouse Regional Blood bank with the facility to get blood and blood component therapy at any time gives us the opportunity to do major surgical interventions and adequately resuscitate patients with major injuries. The rapid blood transport system facilitates the arrival of blood from the Blood bank to the operation theatre in split seconds. The department is recognised by the National Board of Examinations for training Postgraduates in Anaesthesiology.

The Postdoctoral Fellowship in Nerve Block and Pain Management is affiliated to Dr MGR Medical University. The Academy of Regional Anaesthesia of India has recognised our department to conduct a one year fellowship in Regional Anaesthesia. We train 4 Anaesthesiologists from across the globe through the Fellowships recognised by WFSA, World Federation of Society of Anaesthesiologists and 2 Fellowships for the Asiapacific region accredited to the Asian Oceanic Society of Regional Anaesthesia.

The department is involved in clinical research, clinical audits and publishes their work in National and International Journals.



**Dr. C Sekar**

M.B.B.S, MD (Anaes).,  
Senior Consultant & Head Dept. of Anaesthesia.

**Leadership in Professional Bodies:**

- Organising Chairman :**  
ISACON Tamil Nadu 2018-State Conference
- President :**  
ISA City Branch 2011 & 2017.
- Organising Co-Chairman :**  
CASCO 2012, ISA South Zone.
- Advisory Committee Member :**  
Coimbatore anaesthesia Programme 2013

**Dr. C Sekar** joined the institution as a Consultant in 1995. His special interest is in anaesthesia for spine surgery and Ultrasound-guided nerve blocks. He has been an invited faculty for the Oman Medical University Conference for the past two years. He materialized the training initiative at our hospital for the anaesthesia Students from Oman in collaboration with The Oman Medical Specialty Board. He has delivered 6 lectures nationally and 2 lectures internationally and has been a faculty in 8 live workshops. Currently he is Head - Department of Anaesthesia.

**Publications:**

- 1) "Preemptive Analgesia for Postoperative Pain Relief in Lumbosacral Spine Surgeries: A Randomized Controlled Trial" The Spine Journal 2004; 4(3): 261-64.
- 2) "Transient Paraplegia Due to Accidental Intrathecal Bupivacaine Infiltration Following Pre - emptive Analgesia in a Patient with Missed Sacral Dural Ectasia.
- 3) Ultrasound guided subclavian perivascular block: The modified parasagittal approach, Saudi Journal of Anesthesia, July, September 2019.
- 4) Supra-axillary Block: A Novel Ultrasound-Guided Supplement to Brachial Plexus Block for Surgery Around Elbow. 2018 Anesthesia: Essays and Researches | Published by Wolters Kluwer - Medknow

**Dr J Balavenkatasubramanian** joined the institution in 1995. He currently serves as the Senior Consultant & Academic Director of the Department of Anaesthesia and Perioperative Care. He currently serves as the Member of the Educational Committee of World Federation of Society of Anaesthesiologists and Academic Chairman of Asian Oceanic Society of Regional Anaesthesia and Pain Medicine. He is a member of the Scientific Committee of World Congress of Regional Anaesthesia in Paris 2023 and Co-Chair, Regional Anaesthesia Track, World Congress of Anaesthesia, Singapore 2024. Associate Editor of the Journal of Regional Anaesthesia and Pain Medicine, Section Editor: Regional Anaesthesia of Indian Journal of Anaesthesia. Also served as Core Scientific Committee member for the World Congress of Anaesthesia 2021 at Prague. He also serves as the Program Head for the World Federation of Society of Anaesthesiologists-Ganga Hospital Regional Anaesthesia Fellowship and the Course Director for the Aesculap Academy Regional Anaesthesia Guidance Course. Has so far delivered 16 Orations, 607 Lectures Nationally, 47 lectures Internationally and conducted 52 hands on workshops in Regional Anaesthesia. He was the Organising Chair for the 9th Annual National Conference of Academy of Regional Anaesthesia of India 2019 conducted at Coimbatore. He is the Conference Chair for the Annual GARC 2015.

**Awards:**

- Life Time Achievement Award Presented by Sancheti Hospital, Pune.
- The Anaesthesiologists of the Year Dr Subromanian Memorial Award.
- Tamil Nadu State ISA. AORA Dr Ravindra Bhat Oration at AORA, Pune.
- Area of Interest: Perioperative Care, Geriatric Anaesthesia and Anaesthesia for Major Orthopaedic procedures.



**Dr. J. Balavenkatasubramanian**

M.B.B.S, MD (Anaes).,  
Senior Consultant & Academic Director  
Dept. of Anaesthesia.

**Leadership in Professional Bodies:**

- President: AOSRA(2019-22)
- Member, EC, WFSA(2020-24)
- National Chairman: AORA India(2018-2023)
- Associate Editor, Journal of RAPM( 2019-2023)
- Track CO-Chair - Regional Anaesthesia
- World Congress of Anaesthesia-2024
- National Governing Council Member, ISA(2019-2022)

**The Various Anaesthesia Techniques Performed 2016 - 2022**

Year	2016	2017	2018	2019	2020	2021	2022
Spinal Anaesthesia	3216	4600	4546	4388	2777	3429	4788
Spinal and epidural	4137	3588	3748	4093	2945	4226	5201
General Anesthesia	936	3337	3412	3385	1984	3156	3925
Regional Blocks	4811	6049	6251	6982	5421	8272	10770
Others	2229	191	227	324	233	401	473
<b>Total</b>	<b>17,329</b>	<b>17,765</b>	<b>18,184</b>	<b>19,172</b>	<b>13,360</b>	<b>19,484</b>	<b>25157</b>

## Department of Anaesthesia - Consultants



**Dr. Maheshwari S Kumar**  
M.B.B.S, DA, DNB (Anaes),



**Dr. P Gurumoorthy**  
M.B.B.S, MD, DA (Anaes),



**Dr. Vivekanandan N**  
M.B.B.S, MD (Anaes),



**Dr. Sateesh Kumar**  
M.B.B.S, DA (Anaes),



**Dr. Kartik B. Sonawane**  
MBBS, MD, EDRA, MBA,



**Dr. Vipin Kumar Goel**  
MBBS, DA



**Dr. Senthilkumar B**  
MBBS, MD, EDRA



**Dr. Santhosh Kumar .D**  
MBBS, DA, DNB (Anaes),

### Junior Consultants

<b>Dr S P Vinothkumar</b>	<b>Dr C Madhanmohan</b>	<b>Dr Sathish Rajaselvam</b>	<b>Dr Tuhin Mistry</b>
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### Senior Registrars

<b>Dr Stephen Jebaraj</b>	<b>Dr Preethi Dhamothiran</b>	<b>Dr Aparna Jayaraj</b>
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### Anaesthesia Courses Offered



Diplomate of National Board in Anesthesia ,Session starts in January, 8 seats per year



Post Doctoral Fellowship in Nerve block and Pain management:  
Affiliated to Dr MGR medical University Session starts in September, 1 year Course, 2 seats per Year

Academy of Regional Anaesthesia Fellowship, 1 year, Course starts in January, 8 seats per year



Ganga Hospital Fellowship in Regional Anaesthesia & Trauma(6 months) Session starts in January/ July every year



WFSA Ganga Hospital Regional Anaesthesia International Fellowship for anaesthesiologists from Low and Middle income countries (4 seats per year). Session starts in January/ July every year (6 months fellowship)



Asian Oceanic Society of Regional Anaesthesia-Ganga Hospital Regional Anaesthesia International Fellowship, 2 seats per year

## Department of Plastic and Reconstructive Surgery, Hand and Microsurgery, Burns and Maxillofacial Surgery.



*Sitting (L to R) : Dr. Raja Shanmuga Krishnan S, Dr. Hari Venkataramani, Dr.Senthil Kumaran M, Dr. S.Raja Sabapathy, Dr. Ravindra Bharathi R, Dr.Sanjai Ramkumar and Dr.Madhu Periyasamy, Standing (L to R) : Dr Sunilkumar T, Dr. Praveen Bhargwaj, Dr. Vimalambika Ramasamy, Dr. Kannan Balaraman and Dr.Keerthana Bhat*

Dr S Raja Sabapathy heads this department which has a committed, skillful workforce which aims to provide the best possible outcome in everything they do. The team introduced Reconstructive Microsurgery to this region in 1991, and revolutionized trauma care. The unit continues to be a leader in trauma reconstructive surgery with maximum number of procedures done in the country. This is made possible by the availability of senior level input 24 x 7 x 365 for a patient in need. The department justifiably takes pride in providing this quality care.

Hand Surgery and limb salvage continues to be the core strength of the unit. Over a period of time the same skills and attitude has helped the unit to push the frontiers in the growth of subspecialties like Birth defects of the Hand, Brachial plexus surgery, Wrist surgery, Peripheral nerve reconstruction and surgery for paralytic disorders including Cerebral palsy. One of the department which has taken wings recently is the special Diabetic Foot care unit. The unit has a busy programme in the management of Cleft lip and Palate patients partnering with Smile Train.

The facial trauma unit is well experienced and has the benefit of having renowned and skilled Maxillo facial surgeons in the team. The collaborative effort ensures good outcome in jaw bone fractures and jaw and facial deformity correction.

The team has a special interest in burns management and has achieved remarkable results in the correction of post burn deformities. Though the quantum of work in reconstructive surgery overshadows the aesthetic surgery work, the unit continues to do high quality aesthetic surgery.

The work of the department has won international recognition. It is a preferred centre for training and over 100 surgeons visit the unit every year to observe the work done in the department. Currently it is the only centre in the country recognized by the National Board of Examinations offering post doctoral training in Hand and Microsurgery. The microsurgery lab of the department has trained more than 650 surgeons from 49 countries.



Sitting : Dr. Pushpa B.T

Left to Right : Dr. Bhupendar singh, Dr. Karthik Shyam, Dr. Geethanjali, Dr. Nitish Gupta, Dr. Ram sanjith, Dr. Sai venisha

The Department of Radiology is equipped with state of art equipments, which are the most sophisticated and technologically advanced available for medical imaging. The department provides "round the clock" services with a wide range of investigations – X-ray, Ultrasound, CT and MRI. It is a very busy department with a quick turn round time and approximately 400 X-rays, 35 CT and 40 MRI scans are performed everyday.

The Musculoskeletal radiology department is headed by Dr Pushpa BT. The unit is efficient in diagnosing all musculoskeletal pathologies and specialized in interventional therapeutic procedures. The Department has 1 full time consultant, 1 registrar and 6 fellows running the Department.

Annual Statistics				
Year	2019	2020	2021	2022
MRI	8622	6994	10332	11583
CT	8896	8025	7807	9937
USG	5220	4977	4222	5640
X-ray	1,28,188	88,201	123181	143335
Intervention Procedure	230	409	884	1464
Mammogram	63	65	126	13801

**List of Diagnostic Equipments**

<p><b>MRI: 2</b></p> <ul style="list-style-type: none"> <li>Siemens Lumina 3T MRI</li> <li>Siemens Magnetom Symphony 1.5 Tesla MRI</li> </ul> <p><b>CT Scan: 2</b></p> <ul style="list-style-type: none"> <li>Siemens MDCT (Somatom 128 slice)</li> <li>Siemens Multi-Slice CT (Somatom Emotion)</li> </ul> <p><b>Ultrasound Machines: 4</b></p> <ul style="list-style-type: none"> <li>Esoate (Mylab 5) - 1</li> <li>Philips Affinity 70 - 1</li> <li>Siemens Acuson 500 - 1</li> <li>Wipro GE Logiq S7 - 1</li> </ul>	<p><b>X-Ray Machines: 14</b></p> <ul style="list-style-type: none"> <li>Siemens Digital X-Ray - 7</li> <li>Digital X-Ray-4</li> <li>Siemens Mobile X-Ray - 3</li> </ul> <p><b>Wipro GE DEXA Scan - 1</b></p> <p><b>OPG (Myray) Hyperion -1</b></p> <p><b>Hologic 3D Digital Mammogram - 1</b></p>
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**List of Therapeutic Equipments**

<p><b>CT Scan:</b></p> <p>AIRO - intra-operative</p> <p>CT navigation - 1</p> <p><b>Image Intensifiers</b></p> <p>(C-Arm) - 10</p> <p>Siemens - 9</p> <p>GE - 1</p> <p><b>Ultra-sound machines - 9</b></p> <p>(for Image guided procedures)</p> <p>Sonosite - 7</p> <p>Mindray - 1</p>
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**Dr. Pushpa BT** did her MBBS from Vijayanagar institute of medical sciences, Karnataka in year 2003. Her Radiology training includes DMRD in Father Muller medical college in year 2007 and DNB in Sai Sathya Sai hospital in year 2009. She obtained her Fellowship in Royal College of radiologist UK in year 2015. She joined as senior resident in year 2012 and worked for 2 years in CMC Vellore, before working as consultant in Sathya Sai hospital in the year 2014 to 2016. She also worked as visiting consultant in Royal national orthopedic hospital Stanmore, UK where she was trained exclusively in musculoskeletal radiology and related interventions. She joined as consultant in Ganga hospital in the year 2017 and heads the department. She is also course director for musculoskeletal fellowship in the department.



**Dr Pushpa B.T**

M.B.B.S, DMRD, DNB(Radio),FRCR  
Senior Consultant Radiology

**Professional Memberships:**

Royal College of radiologist, United kingdom  
Indian college of radiology  
Indian musculoskeletal radiology society  
European skeletal society

**Reviewer :**

JCOT & IJRI

**Awards:**

- ISSLS best basic science paper 2023
- IRIA- best scientific paper award 2014
- North American spine society and the spine journal 2021 Outstanding paper award.
- ISSLS best clinical science paper 2021
- Consultant proffered paper award –AMS&MSS 2021
- Best educational exhibit –AMS& MSS 2021
- ARRS 2021 certificate of merit
- Certificate of Merit at RSNA 2018 & 2015

The unit is highly specialised in Musculoskeletal (MSK) Imaging and has a Fellowship programme in MSK Imaging which is accredited by the Tamilnadu Dr MGR Medical University. The unit is also actively involved in the research activities of the hospital which helps to bring novel concepts in the field of MSK Radiology.

Fellowship in Clinical Musculoskeletal (MSK) Radiology was started in July 2016, for Radiologists aspiring to sub-specialize in MSK radiology, various fellowship in our institute are Dr MGR University fellowship, Ganga MSK fellowship, ICRI (Indian College of Radiology and Imaging) Fellowship, and FNB fellowship. The course offers adequate exposure, free reporting opportunity of high volume radiological investigations. It also provides hands on experience in joint injections, arthrograms, selective nerve root block, image guided biopsies and vertebroplasty.



USG Guided Intervention



**Tamilnadu Dr MGR  
Medical University Fellowship**

Doctor's Name	Year
Dr. Rajarama Ravivarma	2018
Dr. Liter Nguri	2018
Dr. Sanjay Kumar P	2019
Dr. Venkata Suman Kuna	2020
Dr. Sabari S Ramesh	2020
Dr. Alagiri K	2020
Dr. Kanchan Vivek Dhanokar	2020
Dr. Meena N	2021
Dr. Cibi M	2021
Dr. Gaurav Chauhan	2021
Dr. Mehak Garg	2021
Dr. Aabind S Dev	2021
Dr. Suraj Gowda	2022
Dr. Pyla Sudharani	2022
Dr. Mohammad Salman Mapara	2022
Dr. Karthik Shyam	2021
Dr. Nirnay K. K	2022
Dr. Kushal Gupta	2022
Dr. Ram Sanjith V	2023
Dr. Nitish Gupta	2023
Dr. Geethanjali S	2023
Dr. Bhupendra Singh	2023
Dr. Amit Kumar Mishra	2023
Dr. Kushal Gupta	2022
Dr. Ram Sanjith V	2023
Dr. Nitish Gupta	2023
Dr. Geethanjali S	2023
Dr. Bhupendra Singh	2023
Dr. Amit Kumar Mishra	2023

**Dr. V. Rajesh Babu** is a Senior Neurosurgery Consultant at Ganga Hospital and also the President of the Indian Medical Association (IMA), Coimbatore. He completed his MBBS in 1987, M.S (General Surgery) in 1997 & M.Ch.(Neuro Surgery) in Sep 2001 & has been working as a consultant neurosurgeon at Ganga Hospital since 2010. During his tenure Ganga hospital was awarded the 'Neurotrauma Institutional Award' in 2017. He has been a recipient of many National and State awards for his contributions in the field of Neurosurgery and at various state and national medical associations. He is the Founder Member of The Erode Neurofoundation Trust, Erode & Coimbatore Neurological Society, Coimbatore. He served as the Executive committee member of Neurological society of India between 2013 - 2015.



**Dr V. Rajesh Babu**  
M.B.B.S, M.S. (General), M.Ch (Neuro)  
Consultant, Neurosurgery



**Dr Shaji**  
M.B.B.S, MCH (Neuro)  
Consultant, Neurosurgery

**Dr Shaji** completed his MBBS from Coimbatore Medical College in 1983 and worked as resident in neurology and neurosurgery in KG hospital for three years. He did M.Ch neurosurgery in Madurai Medical College between 1987 and 1992 and worked as consultant neurosurgeon in PVS hospital and National hospital Calicut from 1992 to 2000. following this he was a consultant neurosurgeon in King Fahd hospital, Gizan, KSA between 2000 and 2005. In 2006 he returned back to Coimbatore and served as consultant neurosurgeon in Kongunad Hospital, Coimbatore till 2010. In 2010, again he shifted back to Jeddah National Hospital, Jeddah, KSA for 8 years after which he joined Ganga Hospital. His special field of interest is trauma and tumours.



**Dr Pandi kumar**  
Consultant, Medical Specialist  
Orthogeriatrics , Rheumatology

**Dr Pandi kumar Ramachandran** has graduated from Madras medical college in 2014, with a University gold medal in clinical pharmacology. Since then he worked as a junior resident in National Healthcare group in Singapore from 2014 to 2017 and has been awarded as Employee of the month in his clinical rotation in Medical oncology for the year 2016, in Johns Hopkins International Medical centre. He was an Infection control ambassador to promote hand hygiene during his tenure in Singapore. He has cleared his exams from the Membership of Royal College of Physicians (London) part 1 and 2 and he worked as a Specialist medical registrar in Queens hospital, London in 2019. He was a speaker on Dengue awareness organised by Indian Medical Association ( IMA) in the year 2018. He was a facilitator for the students of Singapore Institute of Technology and also conducted teachings for medical students of LKC school of medicine, Singapore during his tenure from 2014 to 2017. He has been working as a Tutor for Truro medical school in the University of Exeter, England from 2019 to till date. His area of clinical interest in Rheumatology and Geriatrics.



**Dr Shyam Kumar**  
M.B.B.S, Consultant,  
Head of the Laboratory & Blood Bank

**Dr Shyam Kumar** completed his M.B.B.S in 2000. He finished his Diploma in Clinical Pathology in 2003. He has worked in Coimbatore Medical College Hospital as Tutor in Blood Bank between 2004–2010. During this period he has conducted around 500 blood donation camps and been a training faculty to CEMONC centres Doctors and paramedics. In the year 2005 he was awarded for his commendable humanitarian service by the District Collector. Then in the year 2010 he joined Ganga Hospital as Consultant and headed blood bank and laboratory services. He completed the Internal auditor & Quality Management Systems certificate course in 2014. He actively conducts blood donation camps to support the needs of our patients. In the year 2019, he got our laboratory NABL Accredited as per ISO 15189 standards. He is part of the Continuous Quality Improvement Committee member and also the Infection Control Officer.

**Dr Jayanthi Kamashi S** completed her M.B.B.S in 2009 from Thanjavur Medical College and finished her MD Pathology in 2014 from GMC, Trivandrum. In 2017, she did a Post-doctoral fellowship in Oncopathology from Regional Cancer Centre, where she got trained in immunohistochemistry interpretation and intraoperative frozen consultations. She has since then been working as an Oncopathologist with special interests in Soft tissue and bone tumours, Female genital pathology and Cytopathology. She has presented posters and papers in various state, national and international conferences. Being at the diagnostic end of patient care, her belief and so her strength is paying attention to detail so as to provide quality diagnostic service to the patients.



**Dr Jayanthi Kamashi S**  
M.B.B.S, MD Pathology  
Consultant, Pathologist



**Dr R. Suresh Prabhu**  
Consultant,  
Diabetes & Endocrinology

**Dr. R. Suresh Prabhu** completed his MBBS and MD (Internal Medicine) from Coimbatore Medical College. He worked as Assistant Professor in Internal Medicine in PSG IMS & R and later joined as senior resident in Department of Endocrinology CMC Vellore. He completed his DNB (Endocrinology) Training in 2011 and worked as Tutor there. He is an International Osteoporosis Federation (IOF) certified Densitometrist (2011). After working in ACEER clinic, Adayar Cancer Institute as Consultant Endocrinologist, he joined Ganga Hospital in 2016. He has Co-Authored 8 Scientific Publications. His Thesis Poster on Male Osteoporosis won Best Poster award in British Endocrine Society.

“Wherever the art of medicine is loved,  
there is also a love for humanity.”



With an annual influx of over 200,000 new out-patients and nearly 20,000 major surgeries, the unit has established itself as a leader in the field of orthopaedic surgery in this region. The department performs nearly 60 major orthopaedic surgeries every day, alongside a similar number in the Plastic and Hand surgery department. A healthy symbiosis and collaboration between the orthopaedic, plastic, anaesthetic, neuro and facio-maxillary surgery departments ensure high-quality trauma care. The clinical work is subject to periodic audits to ensure that the highest standards are consistently upheld at all stages of treatment.

The high clinical load is well supported by excellent infrastructure facilities. The unit has 650 beds, 38 operating theaters, and a state-of-the-art radiology department with in-house MRI and CT scan facilities. The operating theaters are equipped with AIRO CT guided computer navigation surgery platform, VELY'S 4th generation Robot for joint replacement, sophisticated C-arms, high-end operative microscopes, 4K UHD Arthroscopic equipment and state-of-the-art operative equipment. All of these amenities ensure the best possible outcomes for patients. Additionally, the department of physiotherapy and rehabilitation is well-equipped to aid in the excellent recovery of patients.

Out-Patient Registrations						
2016	2017	2018	2019	2020	2021	2022
2,21,107	2,49,738	2,00,210	2,00,548	1,28,224	1,98,971	2,15,606

Emergency Casualty Attendance						
2016	2017	2018	2019	2020	2021	2022
18,865	20,540	20,904	21,700	15,431	16,755	18,808

Major Orthopaedic Surgeries						
2016	2017	2018	2019	2020	2021	2022
16,709	16,450	16,855	17,926	13,438	16,024	19,080

Orthopaedic Physiotherapy Patients						
2016	2017	2018	2019	2020	2021	2022
47,854	49,445	54,149	54,197	28,079	63,313	68,231

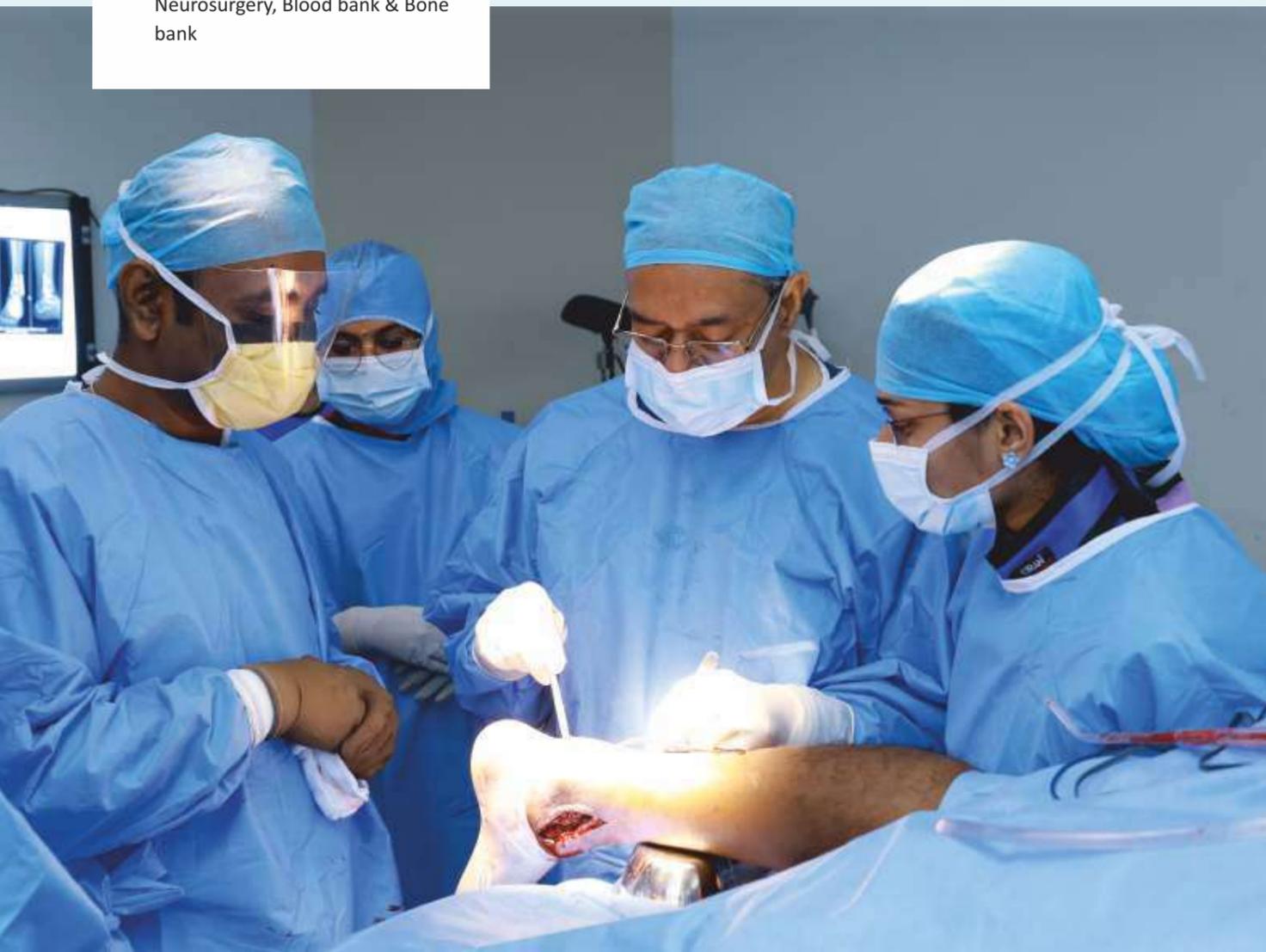


# Trauma Surgery

## Setting High Standards

- Over 15,500 major trauma surgeries done every year
- 12 State-of-the-art operating treaters dedicated to orthopaedic trauma surgery
- Polytrauma team to enable optimal care of critically injured patients with systemic injuries and multiple fractures
- State-of-the-art Trauma Intensive Care Unit
- Round the clock trauma and emergency services
- Dedicated and experienced team of trauma surgeons
- On arrival anaesthesia ("nerve blocks") to provide immediate pain relief
- In-house availability of supportive services like Radiology, Neurosurgery, Blood bank & Bone bank

“ Its all about saving lives ...”



Sitting (L to R) : Dr.BRW Armstrong, Dr.Sivakumar S P, Dr.Velmurugesan P, Dr.Devendra Agraharam, Dr.S.Rajasekaran, Dr.J.Dheenadhayalan, Dr.Ramesh Perumal, Dr.C.Arunkamal, Dr.Mohamed Zackariya  
 Standing 1st Row (L to R) : Dr.Aravindasabari, Dr.Almaw Bites Asres, Dr.Harshavardhan, Dr.Jefferson Samuel, Dr.Roopesh Kumar, Dr.Nagashree, Dr.Sanjana, Dr.S. Yamajala, Dr.Thirumurugan, Dr.Surendran, Dr.Imran, Dr.Jafri S. Shahidali

Standing 2nd Row (L to R) : Dr.Kartik Ghate, Dr.Rakesh Krishna Gade, Dr.Prem Kumar, Dr.Harish, Dr.Arun Joy, Dr.Hemathkumar, Dr.Ashwanth Narayan, Dr.Kavinkumar Vembanan, Dr.Lokesh

The hospital has a state of the art orthopaedic trauma unit catering to a huge population of the western zone of Tamilnadu, adjoining states and also complex trauma are referred from remote frontiers of India and other neighboring countries like Bangladesh, Nepal, Maldives etc. The trauma team is headed by Dr. J. Dheenadhayalan and includes five Consultants: Dr. Ramesh Perumal, Dr Devendra Agraharam and Dr. Arunkamal, Dr Mohammed Zackariya, Dr. Velmurugesan P, and Associate Consultants Dr Sivakumar and Dr BRW. Armstrong. Pediatric trauma surgery is covered by Dr K Venkatadass and the pediatric orthopaedic team. The consultants along with 6 registrars, 12 fellows and 12 post graduate students provide round-the-clock trauma and emergency cover. The unit has 12 dedicated operation theaters for trauma surgeries. Additionally 3 operation theatres are available for emergency surgeries and open injury management. The 24 x 7 availability of trauma anaesthetist, plastic surgery consultant and orthopaedic consultant enables the unit to provide resuscitation and appropriate management for all major injuries at any time of the day. The consultant level input right at the arrival of the patient makes a huge difference in decision making and ensures the right management for these complex injuries.

Year	2018	2019	2020	2021	2022
Acetabular Fractures	108	89	120	96	128
Pelvis Fractures	21	30	32	53	109
Hip fractures	401	349	614	409	486
Femur fractures - Nailing	1489	1722	798	1249	1524
Femur fractures - Plating	378	446	439	410	471
External fixator Application	900	934	580	869	1068
Knee joint Fractures	166	278	487	157	345
Tibia fractures - Nailing	843	901	416	653	811
Tibia fractures - Plating	758	752	559	825	1076
Ankle joint Fractures	679	587	521	518	17
Foot Injuries	93	112	275	117	7
Miscellaneous Procedures	1590	1947	1178	1606	1495
<b>Total</b>	<b>7,426</b>	<b>8,147</b>	<b>6,019</b>	<b>6962</b>	<b>7537</b>



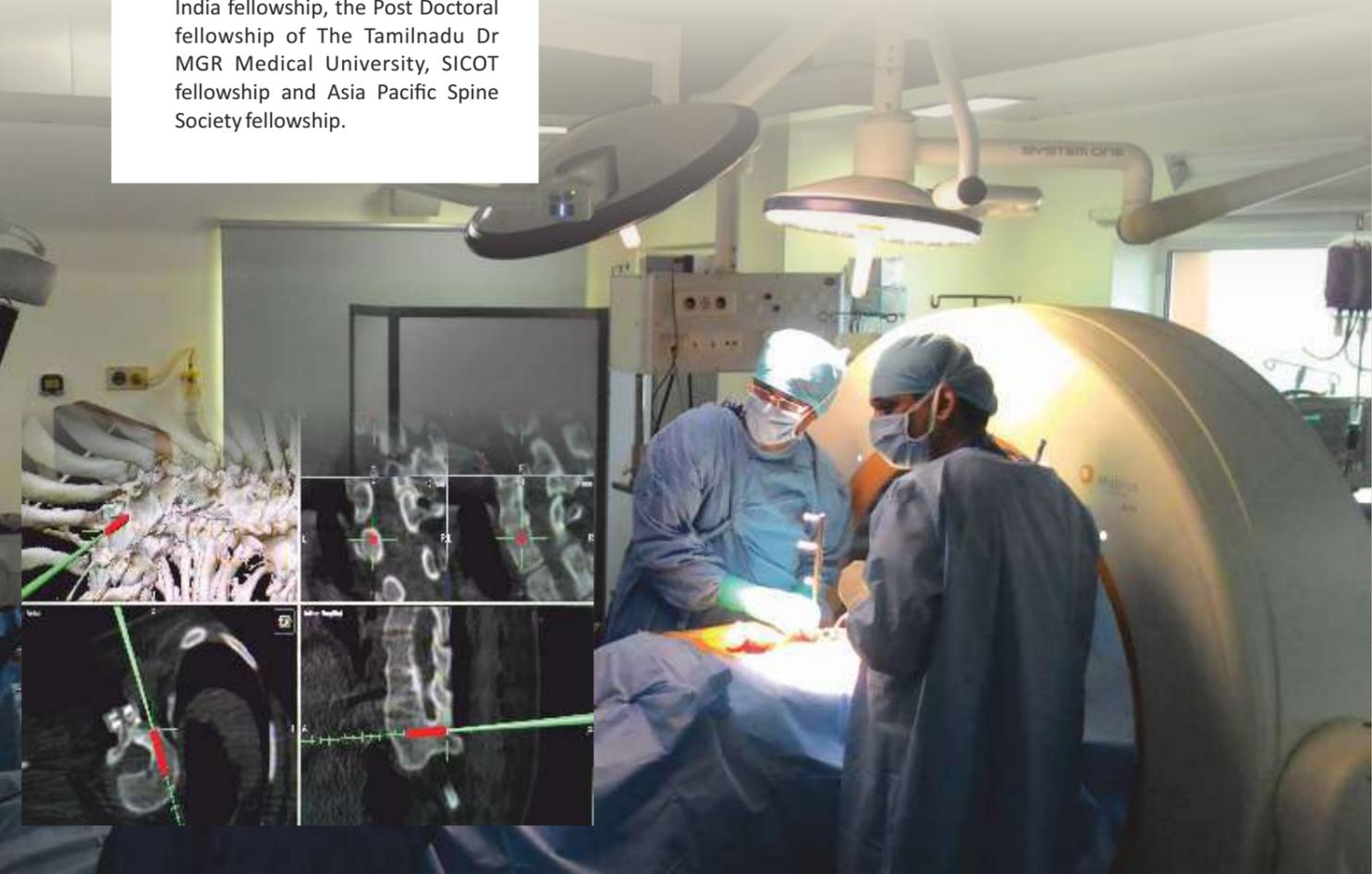
A bilateral severe open injury of legs successfully salvaged with restoration of normal function.

# Spine Surgery

## Safe Spine Surgery

- Ganga hospital is the first unit in the Asia Pacific region to install the BrainLab CT AIRO navigation services for computer aided spine surgery. This ensures safety and precision.
- Intra-operative neuromonitoring enables performance of complex spinal cord surgery without risking injury to the spinal cord.
- The Spine Unit is one of the largest in South Asia catering to nearly 20,000 outpatients every year and performing 3500 spinal surgery procedures.
- Comprehensive safe spine surgery by the combination of intra operative navigation, availability of intra operative continuous spinal cord monitoring and cell saver, provides numerous opportunities for training through the fellowship of National Board of Examinations, Association of Spine Surgeons of India fellowship, the Post Doctoral fellowship of The Tamilnadu Dr MGR Medical University, SICOT fellowship and Asia Pacific Spine Society fellowship.

“  
“You are only as  
strong as  
your back is”  
”



Sitting (L to R) : Dr.Rishi Mughesh Kanna, Dr.S.Rajasekaran, Dr.T.Ajoy Prasad Shetty.  
Standing(L to R): Dr.Karthik R, Dr.Thirumurugan A, Dr.Pranavakumar, Dr.Prashashth S, Dr.Dinesh Iyer, Dr.K.S. Sri Vijay Anand, Dr. Tolgou Yempabe, Dr.Praveen Iyer, Dr.Gnanaprakash, Dr.Ashish Naik, Dr.Shamsundar Y, Dr. Jagadish.T

Over the last 25 years, the Spine Surgery unit of Ganga has provided comprehensive services and is one of the largest tertiary care referral centres in India and so far, more than 25000 spine surgeries have been performed.

The unit is headed by Prof S Rajasekaran, and comprises of two Consultants Dr Ajoy Prasad Shetty and Dr Rishi M Kanna. The clinical team includes two senior registrars, eleven Spine Fellows, ably supported by three physician assistants and spinal physiotherapists to provide specialised care to all patients with spinal pathologies. Bolstered by periodic technological advancements, the unit currently has one Intra-operative computer navigation system, intra-operative spinal cord monitoring systems and advanced cell saver technology, the only centre in the country to have all under one roof. The unit is well known internationally for its path breaking research works in the field of disc biology. It has been the proud recipient of many international awards such as ISSLS award in 2004, 2010, 2012 and 2016, EuroSpine Open Paper Award in 2008, Sofamer Danek award in 1996 and 2002, Silver Jubilee Research Award in 2004, and ASSI Research Awards from 2000-2014. The unit has also more than 200 journal publications in spine surgery and many chapters in international textbooks.

Year	2018	2019	2020	2021	2022
Lumbar Micro Discectomy	361	390	121	290	246
Lumbar Micro Decompression	195	157	61	146	103
Trans Foraminal Lumbar Fusion	473	596	193	475	572
Thoracic Decompression, Fusion	68	59	10	65	74
Spinal Infections – Surgery	74	44	32	122	82
Anterior Cervical Micro Surgery	341	263	98	231	236
Posterior Cervical Decompression	188	170	52	148	151
Spinal Fractures – Surgery	269	387	122	239	266
Percutaneous Biopsy	74	77	32	74	39
Scoliosis / Kyphosis Surgeries	166	155	39	165	157
Spinal Cord Surgeries	33	49	14	24	25
Tumor Surgeries	17	9	9	51	26
Vertebroplasty/ Kyphoplasty	38	10	19	54	22
Spinal Injections	404	516	175	722	996
Thoracotomy / Laprotomy	-	-	-	11	6
Endoscopy	-	37	35	66	53
Tubular Disc	-	-	3	2	1
MISTLIF	-	-	-	3	15
Spinal Pelvic Fixation	-	24	23	13	25
Miscellaneous	164	160	84	11	201
<b>Total</b>	<b>2,865</b>	<b>3,003</b>	<b>2,260</b>	<b>3,117</b>	<b>3296</b>

# Arthroscopy and Sports Medicine

## Key Hole Surgeries

- Competent Arthroscopic surgical team with more than 20 years experience.
- Three Fully furnished operation theatres with a dedicated team of surgeons, nurses, and anesthetists.
- State of the art Advanced arthroscopic equipment 4K - Ultra High Definition System).
- Specialized Musculoskeletal radiologists and physiotherapists to ensure the best outcomes for the patients.
- Key hole surgeries are performed for Knee, Shoulder, Ankle, Hip, Elbow and Wrist Joints.

“ Key Hole Surgery .....Where Big is Achieved through Small.. ...”



Sitting (L to R): Dr.S.R.Sundararajan, Dr.S.Rajashekarar  
 Standing (L to R): Dr.Sujith B S, Dr.Terrence Derryl D'Souza, Dr.Ramakanth R, Dr.Pratheeban K, Dr. Sameer Muhammed

The Arthroscopy and sports medicine unit of Ganga hospital is headed by **Dr. S R Sundararajan**. The unit is efficient in performing several complex surgeries of knee, shoulder, hip, ankle, wrist and elbow joint. Our centre has an intake of yearly one FNB (national board of examinations) and two Tamilnadu Dr MGR University Post doctoral fellow students. It is one of the few centres in India to have FNB course in sports medicine.

The unit has several research publications in national and international indexed journals. The unit has won the best publication award at the for 4 consecutive years in Indian Arthroscopic Society Annual meeting. Team has won the International ISAKOS Research Grant award (2022-2024), ISAKOS young investigator-mentorship award(2012), ISAKOS Achilles Sports research award (2023) and Best Young Investigator Award(2022).

Year	2018	2019	2020	2021	2022
ACL reconstruction/ fixation	648	624	400	586	789
PCL reconstruction/ fixation	39	26	26	34	54
Multi-ligament reconstruction	66	94	57	47	44
Meniscal repair or removal	162	246	128	173	146
Cartilage surgeries	27	5	5	5	41
Patellar instability	14	6	5	31	9
Shoulder Arthroscopy	247	333	204	251	21
Other joints (ankle, elbow, hip)	9	6	7	13	360
HTO	-	-	-	41	29
Miscellaneous	26	30	67	29	31
<b>Total</b>	<b>1,238</b>	<b>1,370</b>	<b>899</b>	<b>1210</b>	<b>1595</b>

The Unit also conducts international and national level meetings in Sports Medicine and Arthroscopy & Training Courses and Workshops for Physiotherapists. We have three well-equipped operation theatres with experienced theatre staff. All procedures are performed based on current clinical evidence and implants used are of best quality available on par with international standards at a very affordable cost. Apart from good surgical results, post-operative rehabilitation is provided through experienced physiotherapists to get patients back to normal activities. Comprehensive post operative rehabilitation for all Sports and Ligament injuries are guided by an exclusive team comprising of 19 trained physio-therapists.



ACL+PCL Reconstructed knee with full range of motion      Arthroscopic View of Mucoïd Degeneration of ACL & After ACL Reconstruction

# Joint Replacement Surgery

## Joints For Life

- Ultra clean, spacious operating rooms, coupled with strict aseptic techniques and highly trained professionals enable results on par with international standards.
- 4th generation VELYS Robotic surgery for precise joint replacement.
- Specialized anesthesia techniques (“nerve blocks”) ensure that the post-operative periods are less painful and comfortable for elderly patients and enable early mobilization
- Digital alignment Xrays for specific planning & templating for the most suitable sized artificial joints for each patient
- Latest and time tested high performance bearing implants are used

“Add Life to your Years,  
not just Years to your Life.”

”



Robotic Surgery in progress...



Sitting L-R: Dr.N.Rajkumar, Dr.S.Rajasekaran, Dr.P.Dhanasekara Raja  
Standing L-R: Dr.Manideep Reddy, Dr.Anubhav Sharma, Dr.Sahil Kanwar, Dr. Sagar Venkataraman, Dr.Soundarajan, Dr.Raja Bhaskara Kanakeshwar, Dr.Rithika Singh, Dr.Jeshwanth, Dr.Martha Balakrishna, Dr.Shrikant Savant, Dr.Abhishek Sandeep

The incidence of arthritis in the joints is increasing as a result of our increased longevity of life. Arthritis leads to a loss of normal mobility in affected individuals. The Arthroplasty unit at Ganga Hospital specializes in joint replacement surgeries that help to alleviate pain and disability caused by advanced arthritis. The unit's exceptional results have enabled us to offer the 'Ganga Joint for Life' Assurance Program, an insurance coverage for our joint replacement patients.

The unit has three consultants, Prof S Rajasekaran, Dr P Dhanasekara Raja, and Dr N Rajkumar, as well as six fellows, dedicated physician assistants, and physiotherapists. The unit collaborates with three other major South Indian Arthroplasty centers (South Indian Arthroplasty Association) to facilitate the exchange of knowledge, periodic academic, and education.

The unit's growth has been remarkable, having performed 2520 surgeries in 2022. The unit has embraced the most recent advances in joint replacement surgeries to ensure the best functional outcomes for our patients. Joints with newer bearing surfaces such as ceramic-on-ceramic, modular hips with larger heads, augments for acetabular defects, rotating platforms for knee, and metaphyseal sleeves for bone defects are routinely performed. Our vast experience in treating complex arthritic conditions has resulted in low infection rates and safe procedures, thus enabling our patients to heal and recover faster with fewer post-operative complications.

Year	2018	2019	2020	2021	2022
Primary TKR	1309	1432	608	1310	1937
Revision TKR	81	125	40	50	37
Primary THR	300	250	47	279	345
Revision THR	26	77	174	59	85
Miscellaneous TKR	-	51	60	68	39
Miscellaneous THR	-	44	51	116	77
<b>Total</b>	<b>1,716</b>	<b>1,979</b>	<b>980</b>	<b>1882</b>	<b>2520</b>



A 75 year old gentleman with severe osteoarthritis of both knee joints treated by total knee replacement.

4th generation Velys Robot

Combining Artificial Intelligence & Human Intelligence to deliver better outcomes



# Foot & Ankle Surgery

## Highlights

- The specialist centre and team of highly experienced specialist surgeons catering to wide range of foot disabilities and deformities.
- Complex deformities (Flat foot, Cavus foot, Hindfoot varus-valgus) are surgically addressed to provide planti-grade feet.
- Exclusive Diabetic Charcot foot clinics addressed in collaboration with experienced Plastic surgeons for correction of deformities and salvage of foot from Amputation.
- Advanced surgeries- Arthroscopic ankle joint management for ankle instability and Chronic painful ankle.

“  
The human foot is  
a masterpiece  
of engineering  
and a work of art  
”



Sitting L-R: Dr.Arunkamal C, Dr.S.Rajasekaran, Dr.S.R.Sundararajan  
Standing L-R: Dr. Sameer Muhammed, Dr.Terrence Derryl D'Souza, Dr.Ramakanth, Dr.Sujith,Dr.Pratheeban

The human feet and ankles are some of the most complicated parts of the body and results in a high number of injuries, many of which are misinterpreted and improperly diagnosed. In order to regain mobility and movement, it is absolutely necessary to obtain the appropriate care and therapy.

Ganga Hospital Foot and Ankle Service provides professional diagnosis and leads a multidisciplinary approach to treat the broad variety of foot and ankle diseases. Our state-of-the-art equipment at the Ganga Foot and Ankle Clinic allows us to offer treatments for any complaint, be it injuries or medical conditions. Our facilities at the hospital, combined with our team of foot experts are equipped to treat complex deformities and complaints resulting from injury.

The team is headed by Dr Sundararajan SR, and Foot and Ankle Surgeons Dr Arun Kamal, Dr Ramakanth R, 2 senior registrars and 4 fellowship trainees. subspecialty dedicated interest in Arthroscopy, Sports medicine and foot and ankle services.

Year	2019	2020	2021	2022
Arthroscopy ankle	17	8	23	24
Charcot's Midfoot & Hindfoot	40	27	40	38
Neglected trauma	19	24	25	21
TA Tear & Tendinopathy	52	48	51	64
Deformities (Flat foot, cavus foot, arthritis)	80	14	58	88
Miscellaneous (Infection, Implant removal, Benign tumor)	34	69	54	104
Fractures around ankle	514	387	413	509
Talus and Calcaneal fractures	171	97	142	165
Foot fractures (navicular, cuboid, Lisfranc's MT#s)	53	50	43	56
<b>Total</b>	<b>980</b>	<b>724</b>	<b>849</b>	<b>1069</b>

The unit carries 20 years of experience in surgically and non-surgically treating complex conditions of the foot and ankle. It provides a wide range services to treat a variety of conditions including: Ankle and Subtalar Arthroscopy surgeries, Achilles Repair, Foot Rheumatoid arthritis, Heel pain-Retrocalcaneal bursitis, Haglund's bump, insertional tendinopathy, Ankle injuries, Ankle instability, Podiatry, Hallux valgus deformity, Charcot's foot, Retrocalcaneal bursitis, Haglund's bump, Midfoot deformities (Flat foot and cavus foot), Rocket bottom foot, Hindfoot deformities, claw toe deformities and OCD talus. Foot and ankle unit has been the proud recipient of State awards in Tamil Nadu State Orthopedic conferences in 2018, 2021, 2022 and ISAKOS international award in 2023.

# Paediatric Orthopaedics

## Children's Orthopaedics

- Trained pediatric orthopaedic specialist to provide optimal care to children.
- Weekly group meetings and scientific deliberations are conducted to facilitate the most appropriate care.
- Exclusive club foot clinics to provide Ponseti method of correction for clubfoot.
- 24 x 7 pediatric trauma care services enabling appropriate treatment for each child with trauma.
- Special clinics for children with neuromuscular disorders and disability such as cerebral palsy, muscle dystrophy and poliomyelitis.

“  
“In all this world,  
there is nothing  
more beautiful than  
a happy child”  
-Frank Baum  
”



L to R: Dr. Ilavarasan, Dr. K. Venkatadass, Dr. S. Rajasekaran, Dr. T. Senthilkumar

The Paediatric Orthopaedic division of Orthopaedic surgery provides dedicated care to the musculoskeletal problems of children. Dr Venkatadass K is the Lead Consultant of the unit and along with a team of doctors, physiotherapists and physician assistants work together to provide optimal care to all the children admitted in the unit. A child is not a 'small adult'; the tender musculoskeletal system behaves different from that of an adult. Moreover, they have growth potential which needs to be preserved for them to become mature adults. All these make children so special and thus the need for trained specialists to make sure that they get the best possible care. Any musculoskeletal problem, be it a congenital deformity (birth defect), a fracture involving the growth plate or an infection can cause alteration in growth and deformity. Timely identification of the problem and right intervention will go a long way in preventing long-term disability. Specialised services of paediatric orthopaedics include pediatric trauma care and hip preservation. Hip Preservation Surgery is a specialty developed to preserve the native hip to its maximum function and postpone arthritis. Femoroacetabular impingement (FAI) and Hip Dysplasia are two leading causes of early arthritis and there are advanced surgeries available now to restore the normal anatomy and biomechanics of hip and thereby preserve its function.

Year	2019	2020	2021	2022
Pediatric trauma	531	34	229	361
CTEV Tenotomy	43	40	35	56
CTEV Surgery	22	11	45	68
Cerebral Palsy	37	67	3	15
Hip Preservation Surgery	64	80	115	160
Limb Deformities	123	16	106	143
Surgery Osteomyelitis	29	259	20	20
Miscellaneous	45	110	312	260
<b>TOTAL</b>	<b>1,081</b>	<b>617</b>	<b>865</b>	<b>1083</b>



A case of congenital pseudoarthrosis of right tibia treated with vascularised fibular grafting



12 year girl with severe deformity of both legs (Blount's disease) corrected by surgery

# Upper Limb

## Highlights

- Shoulder and upper limb clinics operate twice a week in collaboration with the plastic surgery and hand department, especially in the management of brachial plexus injuries.
- Treatment is focused on conservative measures and restorative techniques through Minimally invasive surgeries, including arthroscopy.
- Surgical options are comprehensive and matched, based on patient needs.
- Joint replacement is employed selectively, when required.
- All surgeries and outcomes are analyzed to improve quality of care and develop new techniques for future applications.

“  
Our Shoulders  
are unique due  
to its mobility  
and stability  
”



Left to Right: Dr.B Roy Wilson Armstrong, Dr.Sivakumar S P, Dr.Velmurugesan P, Dr.J.Dheenadhayalan, Dr.S.Rajasekaran, Dr.Ramesh Perumal, Dr.Mohamed Zachariya, Dr.C.Arunkamal, Dr.Devendra Agraharam

The unit led by Dr. Dheenadhayalan, manages all shoulder pathologies including trauma and arthritis. The team includes 3 associate consultants and two fellows. The entire team focuses on adhering strictly to principles of evidence-based medicine and offers their patients the most current, proven techniques of management in shoulder and limb reconstruction. Advanced surgical techniques are employed to improve comfort and outcome of the patients. Of the 600 and more shoulder surgeries done annually, Shoulder arthroscopy, open repairs, shoulder joint replacements-including reverse shoulder arthroplasty are routinely performed in improving patient's quality of life. The unit is ably backed by well equipped radiology department and a dedicated physiotherapy section with advanced pre and post operative rehabilitation protocols.

Diagnostic and therapeutic arthroscopic procedures for the shoulder are performed by the Sports Medicine team headed by DrSR Sundararajan.

Year	2018	2019	2020	2021	2022
Shoulder Reconstruction	92	29	14	77	63
Shoulder injections/manipulation	100	67	59	50	66
Humerus fractures	370	530	376	467	573
Elbow joint fractures	330	277	295	229	318
Elbow replacement	5	3	4	3	4
Shoulder Replacement	4	10	1	6	7
Fractures of shoulder joint	291	145	79	113	131
Forearm fractures	542	528	477	501	598
Wrist fractures	866	757	598	551	694
<b>Total</b>	<b>2,600</b>	<b>2,346</b>	<b>1903</b>	<b>1997</b>	<b>2454</b>



A 77 year old patient was unable to lift his arm due to massive cuff tear and subsequent arthritis. Within days of undergoing Total Reverse shoulder arthroplasty, the patient is able to reach near normal range of overhead movements.



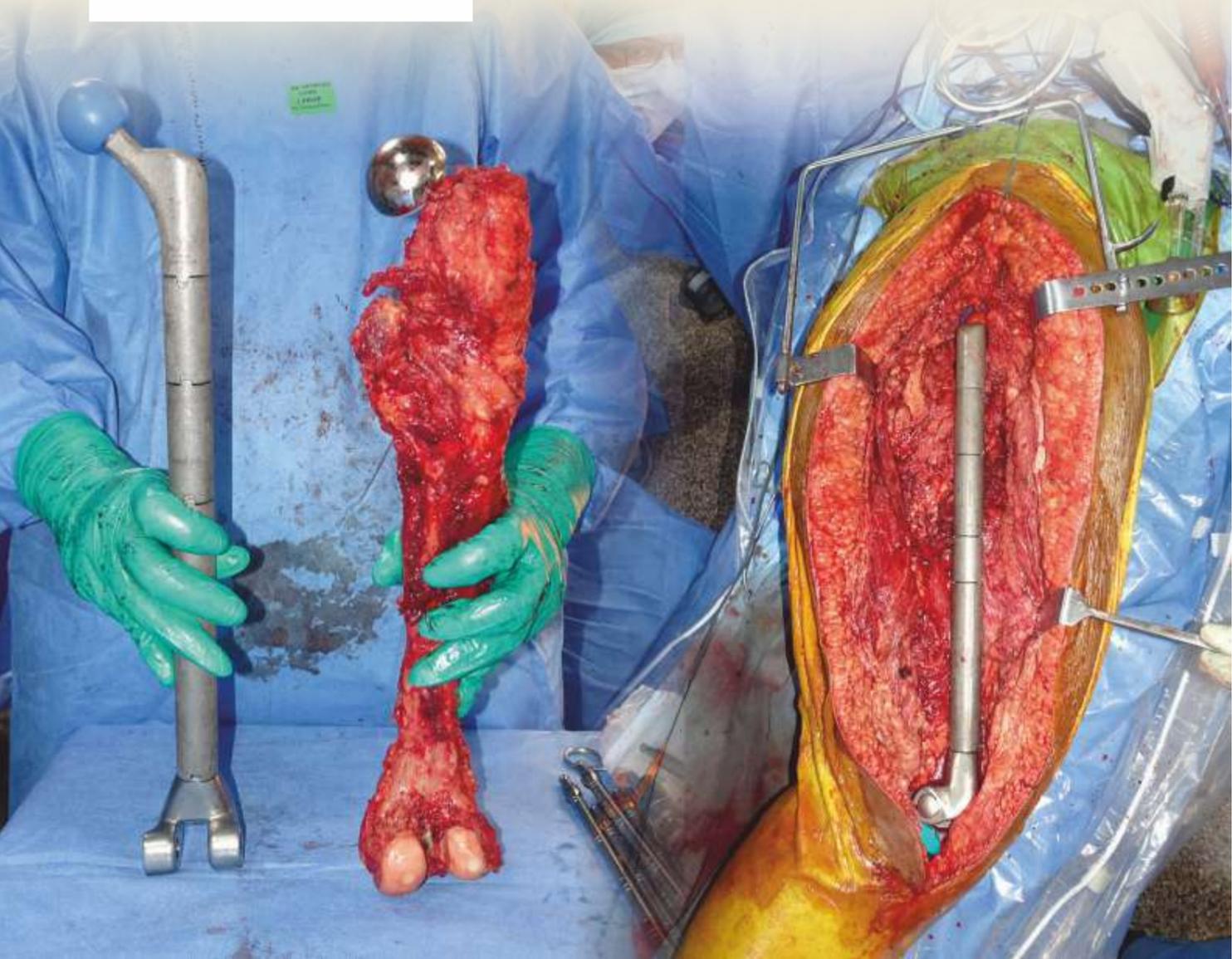
A patient with Impingement syndrome and cuff tear treated by mini-open repair and sub-acromial decompression with good range of movements

# Musculoskeletal Oncology

## Highlights

- Highly skilled Multi-disciplinary surgical team with state-of-art operating theatres for Oncology cases
- Use of Intra-operative CT Navigation for Complex resections and reconstructions.
- Fortnightly Multi-disciplinary Meeting.
- Bone Bank for procuring Allografts
- Extra-corporeal Radiation Therapy (ECRT)
- Custom Megaprosthesis
- Expandable Endoprosthesis for Children

“ Multidisciplinary care is the mantra of cancer care ...”



**Dr. (Prof) S Rajasekaran**  
Chairman, Dept of Orthopaedics,  
Trauma & Spine Surgery.



**Dr. Raja Bhaskara Rajasekaran**  
Orthopaedic Oncosurgeon



**Dr T. Sunilkumar**  
Surgical Oncologist



**Dr Hari Venkatramani**  
Reconstructive Microsurgeon



**Dr S. Krupa Shankar**  
Medical Oncologist



**Dr Jayanthi Kamashi S**  
Onco-pathologist



**Dr Pushpa BT**  
Senior Consultant-Radiology



**Dr Sashi Ranjini**  
Pediatric Oncologist

The Department of Musculoskeletal Oncology was officially established in April of the year 2022. It currently serves as one of the premier tertiary referral centers in Orthopaedic Oncology, catering to a wide range of musculoskeletal oncology cases, including benign tumors, malignant tumors, and metastatic bone diseases, that are routinely managed by the unit. In order to provide the best possible care for the patients, the Department hosts a Multi-disciplinary Team meeting every fortnight, which involves the participation of Orthopaedic Oncologists, Medical Oncologists, Surgical Oncologists, Paediatric oncologists, Reconstructive Microsurgeons, Radiologists, and Pathologists who offer invaluable insights into their respective areas of expertise.

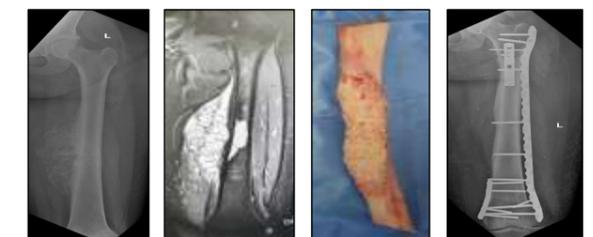
The in-house Chemotherapy suite provides patients with focussed Chemotherapy care throughout the course of their treatment, thus ensuring that they receive the most effective and comprehensive care possible. Additionally, the Bone and Tissue Bank enables surgeons to use allografts for Biological reconstructions, thereby further enhancing the Department's unparalleled range of services. Furthermore, the Department is supported by a World-Class Plastic surgery unit, which routinely performs Microvascular reconstructions after resection, thus significantly augmenting the Department's offerings and contributing to the overall excellence of the reconstructive limb salvage procedures. The unit offers wide range of reconstructive surgical options including wide excision, extra-corporeal radiation therapy, wide excision and microvascular reconstruction and wide excision with custom made megaprosthesis and expandable endoprosthesis for growing children. All of these efforts are geared towards ensuring that patients receive the highest quality of care.

### April 2022 - March 2023: Annual Statistics

Giant Cell Tumour	37
Malignant Tumours	29
Benign Tumours	72
Pelvic Sarcoma	08
Others	17
<b>Total No: of Cases</b>	<b>187</b>
Endoprosthesis for Tumours	24



High-Grade Chondrosarcoma of the Pelvis - Managed with with Wide Resection followed by re-implantation of the resected bone following Irradiation (ECRT)



Successful union following re-implantation of irradiated bone in a case of diaphyseal Osteosarcoma of the femur



Recurrent Giant Cell tumour of the proximal tibia treated with Endoprosthesis replacement.

# Geriatric Bone Health Clinic

## Setting High Standards...

- Comprehensive Geriatric assessment for elderly patients visiting the clinic with a dedicated panel of Orthopedician, Geriatric consultant, Endocrinologist, Physiotherapist and Nutrition specialist in elderly nutrition.
- Advanced equipments to measure Bone density, Sarcopenia assessment, Bone turn over markers, Bone Mineral Density estimation(BMD), Risk assessment for sustaining fractures, Osteoporosis profile etc.
- Orthopaedic unit manages Fragility fracture fixation aiding early mobilization and rehabilitation.

“The aim of modern medicine is to make patients live very young as long as possible ...”

”



### Dr. R. Suresh Prabhu

completed his MBBS and MD (Internal Medicine) from Coimbatore Medical College. He worked as Assistant Professor in Internal Medicine in PSG IMS & R and later joined as senior resident in Department of Endocrinology CMC Vellore. He completed his DNB (Endocrinology) Training in 2011 and worked as Tutor there. He is an International Osteoporosis Federation (IOF) certified Densitometrist (2011). After working in ACEER clinic, Adayar Cancer Institute as Consultant Endocrinologist, he joined Ganga Hospital in 2016. He has Co-Authored 8 Scientific Publications. His Thesis Poster on Male Osteoporosis won Best Poster award in British Endocrine Society.



### Dr Pandi kumar Ramachandran

has graduated from Madras medical college in 2014, with a University gold medal in clinical pharmacology. Since then he worked as a junior resident in National Healthcare group in Singapore from 2014 to 2017 and has been awarded as Employee of the month in his clinical rotation in Medical oncology for the year 2016, in Johns Hopkins International Medical centre. He was a facilitator for the students of Singapore Institute of Technology and also conducted teachings for medical students of LKC school of medicine, Singapore during his tenure from 2014 to 2017. His area of clinical interest in Rheumatology and Geriatrics.



### Dr. A. Devendra

has completed orthopedic training at Ganga hospital and is currently working as a Trauma specialist Consultant. His special interest is in treating complex hip fractures in the elderly. He is the scientific and processing manager of Ganga hospital Tissue bank since 2008. He completed a trauma fellowship at the University of Innsbruck in 2011 and is involved in training trauma fellows and post-graduates. He is the recipient of 5 Gold medals in the national and state meetings, and authored 36 publications including two book chapters.



Geriatric medicine as a specialty was established to recognize and cater to the rapidly growing elderly population in the constantly evolving modern healthcare system. Ganga hospital launched its Comprehensive Ortho-geriatric clinic in July 2021 with vision of ensuring that the elderly patients who are admitted to the hospital receive appropriate and requisite support under the guidance of an experienced geriatric physician. With the escalating number of falls in elderly patients and the consequential burden on the mental health of the patients and their loved ones, the department has ingeniously developed advanced geriatric tools to cater their special needs.

The concept of Ortho-geriatric clinic is the first of its kind in the region, and it boasts of its unique clinic visit pathways for both fragility fracture and non-fragility fracture and Comprehensive Geriatric Assessment(CGA) of all our elderly patients. The team also conducts regular clinical audits related to polypharmacy, DVT prevention in elderly surgical patients, and antibiotic stewardship activities, in order to maintain the highest standards of healthcare provision and ensure the well-being of all our patients.

Year	2019	2020	2021	2022
Neck of Femur	22	207	235	285
Intertrochanteric Femur	16	143	179	257
Subtrochanteric Femur	1	15	13	31
Distal Radius	8	97	65	67
Vertebra	2	19	23	38
<b>Total</b>	<b>49</b>	<b>481</b>	<b>515</b>	<b>678</b>

Year	2022
Outpatients	7244
Inpatients	262
Diagnosed as Osteoporosis' using DEXA scan	542
Advanced Monoclonal Antibody Treatment for Osteoporosis	147
<b>Total</b>	<b>7537</b>

## Ganga Hospital Founder's Oration

Living meaningfully.. leading gracefully...



Founders Mrs. Kanakavalli Shanmuganathan & Dr. J. G. Shanmuganathan

Ganga Hospital had its beginning in 1978 to establish a hospital that would provide every patient the best treatment at affordable cost. The journey was never easy but their relentless spirit, determination and hard work made their dream come true. They preached integrity, ethics, professional and family values by example, which brought in trust and confidence to the team and to the patients.

Today, Ganga Hospital stands tall amongst medical institutions for its professional and academic excellence. It has placed Coimbatore in the World Map of Orthopaedics and Plastic and Microsurgery by excellence in clinical work, academics and research. All made possible because of their dream. To celebrate the journey of our Founders who inspired and set an example for us, we instituted the Founder's Oration in 2013.

Every year, an eminent person who stands as high example of success achieved through hard work, honesty, ingenuity, social commitment and passion in what they do will deliver the Oration. We are sure that their presence and words will inspire people to dream and create institutions of excellence for the benefit of our society.



Hon. Justice Shri P Sathasivam handing over the orator's plaque to Dr Devi Shetty. Shri D R Kaarthikeyan, Shri K Venkataraman and the founders Dr JG Shanmuganathan and Mrs Kanakavalli Shanmuganathan are also seen along with Dr S Rajasabapathy, Mrs Nirmala Rajasabapathy, Dr S Rajasekaran & Mrs Rama Rajasekaran



1st Ganga Hospital Founder's Oration : Friday 14th June, 2013

### Dr. Devi Shetty

Chairman, Narayana Group of Hospitals, Bengaluru delivered the first Founder's Oration on **'Affordable Health Care'**.

2nd Ganga Hospital Founder's Oration : Saturday 1st November, 2014

### Mr. N. Gopalswami

IAS(Retd), Former Chief Election Commissioner of India, delivered the second Founder's Oration on **"Governance and the Governed"**.



3rd Ganga Hospital Founder's Oration : 31st October 2015

### Mr. N. Gopalakrishnan

Director of Tata Group Promoter holding company delivered the third Founder's Oration on **"Achieving Excellence: an attitude or a goal"**.

4th Ganga Hospital Founder's Oration : October 22nd, 2016

### Mr Venu Srinivasan

chairman of the Sundaram Clayton Group, (TVS Motor Company) delivered the fourth Founder's Oration on **"Values that build Institutions"**.



5th Ganga Hospital Founder's Oration : 10th of June 2017

### Mr. Subroto Bagchi

Chairman, Skill Development Authority and Co-founder of Mindtree delivered the fifth Founder's Oration on **"Platform Vs Purpose"**.

6th Ganga Hospital Founder's Oration : 27th October 2018

### Mr. B. Muthuraman

Chairman of Tata International Ltd and Vice-chairman of Tata Steel Limited delivered the sixth Founder's Oration on **"Institutional Transformation"**.



7th Ganga Hospital Founder's Oration : 6th November 2019

### Dr. Abhay Bang

Founder, SEARCH (Society for Education, Action and Research in Community Health) delivered the seventh Founder's Oration on **"Research with the People"**.

8th Ganga Hospital Founder's Oration : 22nd December 2022

### Mr Bhaskar Bhat

Director, Tata Sons delivered the eighth Founder's Oration on **"Responsible Business : Ethics with Economics"**.





## ACADEMICS HIGH STANDARDS

- Recognized for orthopaedic post graduate training by the National Board since 1997.
- First in the country for super speciality training in spine surgery, trauma, sports medicine.
- Recognised for PhD in Orthopaedic surgery under two universities (Madras University and Tamilnadu Dr MGR Medical University).
- Fellowships in all sub-specialities of orthopaedics (Trauma, sports medicine, spine surgery, pediatric orthopaedics, arthroplasty).
- Robust training programme with daily morning clinical case discussions, case reviews, audits and weekly general clinics.

“Education is not the learning of facts, but the training of the mind to think”  
– Albert Einstein



**Prof S Rajasekaran**  
Clinical Director  
President, ANBAI



**Dr Ajoy P Shetty**  
DNB Co-ordinator



**Dr Venkatadass K**  
DNB Co-ordinator



**Dr Rishi Kanna**  
DNB Co-ordinator  
Joint Secretary & Treasurer - ANBAI

### FNB (Fellowship in National Board)

#### FNB Spine Fellows

2017 Dr. Ankith N.V.  
2017 Dr. Renjith K.R.  
2017 Dr. R. Rajesh

2018 Dr. K. Dinesh  
2018 Dr. Naresh Kumar Eamani  
2018 Dr. Neerav Anand Singh

2019 Dr. Karthik R  
2019 Dr. Rohit Akshay Kavishwar  
2019 Dr. Guna Pratheep

2021 Dr. Nimish Rai  
2021 Dr. Jalaj Meena  
2021 Dr. Nishat Ahmed

2022 Dr. Dinesh Iyer  
2022 Dr. Thirumurugan A  
2022 Dr. Prashashth

#### FNB Arthroplasty

2019 Dr. Kashyap Laxmanbhai Zala  
2019 Dr. Uttam Singh  
2022 Dr. Jeshwanth  
2022 Dr. Savant Shrikant Pradeep

#### FNB Sports Medicine

2017 Dr. Joseph B Josep  
2018 Dr. Terrence D' Souza  
2021 Dr. Venugopal T  
2022 Dr. Sujith B. S.

#### FNB Trauma Fellows

2017 Dr. Durga Prasad  
2018 Dr. K. Gopikrishnan K  
2018 Dr. Gupta Nishith Pravenchandra  
2018 Dr. Sriresh Ravi  
2018 Dr. Shelke Uddhav Dnyanoba  
2021 Dr. Kavinkumar Vembanan  
2021 Dr. Nagashree V

The unit is very popular for its academic excellence and is a sought after center for training in orthopaedics and its sub-specialities. Teaching and training young surgeons has been a tradition of the unit. The academic activities are supervised by the Academic Director Prof M V Daniel, and guided by Dr S Rajasekaran. Dr Ajoy Prasad Shetty and Dr Venkatadass are the course co-ordinators for the academic training program. More than 200 orthopaedic surgeons have been trained from the institution so far. The unit is also supported by a 24 hours open library that provides an excellent ambience for studying, infrastructure for presentations, and a wide range of books to read. Contributions of books from Prof TK Shanmugasundaram, Chennai and Prof Chitranjan Ranawat, in addition to basic and advanced books on orthopaedics provide the students an excellent opportunity to learn. The students also have access to more than 10 online orthopaedic journals for constantly updating the changes in the field of orthopaedics.

## Courses

### National Board of Examinations, New Delhi

- DNB Orthopaedic Surgery
- FNB Spine Surgery
- FNB Trauma Surgery
- FNB Sports Medicine
- FNB Arthroscopy

### The Tamilnadu Dr MGR Medical University, Chennai.

- Ph.D in Orthopaedic Surgery
- Fellowship in Arthroplasty
- Fellowship in Spine Surgery
- Fellowship in Limb Reconstruction Surgery
- Fellowship in Arthroscopy
- Fellowship in Pediatric Orthopaedics
- Fellowship in Regional Anaesthesia
- Fellowship in Musculoskeletal Radiology

### University of Madras, Chennai

- Ph.D in Biotechnology and Biochemistry

### Ganga Institute of Health Sciences

- Diploma in Nursing & Midwifery
- B.Sc., Nursing
- Post Basic B.Sc., Nursing
- B.Sc., Physician Assistant(ETM)
- B.Sc., Operation Theatre Technology
- B.Sc., Critical Care Technology
- B.Sc., Accident & Emergency Care Technology
- B.Sc., Radiology & Imaging Technology



**Dr. MGR University Fellows 2019**

- Dr. Jyothswara Reddy (Spine)
- Dr. Swapnil Hajare (Spine)
- Dr. Durgaprasad V (Paediatrics)
- Dr. Ramesh Mada (Limb Reconstructive surgery)
- Dr. Prashanth Shibu (Limb Reconstructive surgery)
- Dr. Harshavardhan Goud (Arthroscopy)
- Dr. Azeem Jabar (Arthroscopy)
- Dr. Mohammed Basheer (Joint Replacement)
- Dr. Chandan Kumar Panda (Joint Replacement)

**Dr. MGR University Fellows 2020**

1. Dr. Abhijit Deb - Joint Replacement
2. Dr. Md Istiyak - Joint Replacement
3. Dr. Yogin Patel - Spine
4. Dr. Raunak Milton - Spine
5. Dr. Deepak Jain - Paediatric Orthopaedics
6. Dr. Aditya H Kumar - Limb Reconstructive Surgery
7. Dr. Tummala Mohit - Limb Reconstructive Surgery
8. Dr. Koribilli Sai Pradeep - Arthroscopy
9. Dr. Karthik - Musculoskeletal Radiology
10. Dr. John Paul - Nerve Blocks & Pain Management

**Dr. MGR University Fellows 2021**

1. Dr. Akhileswari - (Spine)
2. Dr. Meet Mehta - Arthroscopy
3. Dr. Sandeep Kumar Kanugula - Arthroplasty
4. Dr. Vinita Keshri - Nerve Block & Pain Management
5. Dr. Harshraj Deorao Bhendale - Nerve Blocks & Pain Management

**Dr. MGR University Fellows 2022**

1. Dr. Sagar Venkataraman - Joint Replacement
2. Dr. Martha Balakrishna - Joint Replacement
3. Dr. Jagadish T - Spine Surgery
4. Dr. Ilavarasan V - Paediatric Orthopaedics
5. Dr. Sameer Muhammed M - Arthroscopy
6. Dr. Pratheeban - Arthroscopy
7. Dr. Senthilkumar S A - Nerve Blocks & Pain Management
8. Dr. Aparna Jayaraj - Nerve Blocks & Pain Management

**Ganga - Trauma Fellows 2020 - 2022**

- Dr. Naveen B
- Dr. Girinivasan C
- Dr. Arunkumar R
- Dr. Anurag Jain
- Dr. Dharanikumar P S
- Dr. Arunkumar R

**Ganga - Trauma Fellows 2022 - 2024**

- Dr. Mahshook Irfan PC
- Dr. P. Aravindasabari
- Dr. Owais Ahmed
- Dr. Lokesh
- Dr. Prajin Raj
- Dr. Kartik Bhaurao Ghate



**Ganga - Paediatric Orthopaedics Fellows**

- 2020 Dr Deepak Jain
- 2021 Dr. Ilavarasan
- 2022 Dr. Senthilkumar T

**Ganga - Arthroscopy Fellows**

- 2020 Dr. Harshil Chhapan
- 2021 Dr. Shivam R Shah

**Ganga - Arthroplasty Fellows 2019**

- Dr. Raja Anurag Gautam
- Dr. Pratik Agrawal

**Ganga - Arthroplasty Fellows 2020**

- Dr. Gowtham Ram
- Dr. Chaitanya Kishore
- Dr. Kasa Sasank

**Ganga - Arthroplasty Fellows 2021**

- Dr. Rithika Singh
- Dr. Nihar Ranjan Mishra

**Ganga - Arthroplasty Fellows 2022**

- Dr. Anubhav Sharma
- Dr. Sahil Kanwar

**ASSI Spine Fellowship**

- 2019 Dr. Chandan Murugan
- 2021 Dr. Ashish Naik
- 2022 Dr. Gnanaprakash

**SIAA (6 Months Fellowship) 2019**

- Dr. Akshay Dudhanale Shivling
- Dr. Maulik B. Shah

**SIAA (6 Months Fellowship) 2020**

- Dr Lakshmi Narayan (July)
- Dr. Ketam Khatri

**SIAA (6 Months Fellowship) 2021**

- Dr. Alex Muttathupadom
- Dr. Preetam Raj Chandran

**SIAA (6 Months Fellowship) 2022**

- Dr. Sutharsen
- Dr. Ameya Katariya



**DNB (Primary)**

**2017 – 2020 (Primary)**

- Dr. A.Imran
- Dr. Balagurunathan D
- Dr. Ankit Kumar Garg
- Dr. Dharanikumar P.S.
- Dr. Kamal Krishna Parida
- Dr. Ashok Sri Perambuduri

**2018 – 2021 (Primary)**

- Dr. HarshJalan
- Dr. ChintanBhagchandani
- Dr. DhaniilCharly
- Dr. RahulSutariya
- Dr. Jomon De Joseph
- Dr. MahshookIrfan

**2019 – 2022 (Primary)**

- Dr. Preetish S
- Dr. P. Aravindasabari
- Dr. Ranjit Kumar Patra
- Dr. Hemath Kumar R
- Dr. Deepak Kumar Gour
- Dr. Manikandan R

**2020 - 2023 (Primary)**

- Dr. Hemraj Bhasker
- Dr. Ashwin Babu
- Dr. Pradeep
- Dr. Ishu Goyal
- Dr. Ruban A
- Dr. Vanamala Sai Keerthan

**2021 - 2024 (Primary)**

- Dr. Aditya Kamlesh Yagnik
- Dr. Ashutosh Kumar Gupta
- Dr. Vishnu Sankar
- Dr. Arvind P
- Dr.Thamizharasu
- Dr.Arun Ravindran

**2022 - 2025 (Primary)**

- Dr.Priyadarshan
- Dr.Naveen A
- Dr.Praveenkumar P
- Dr.Aravindhan S
- Dr.Arjun O
- Dr.Tamilkumaran

**DNB (Secondary)**

**2017 – 2019 (Secondary)**

- Dr. AshishAnand
- Dr. Naveen B
- Dr. ParrotPrasannan L
- Dr. Felix Emerson M.J

**2018 – 2020 (Secondary)**

- Dr. InamdarAnupamPradip
- Dr. Rathika K
- Dr. Deepak A
- Dr. ArulPrakash N
- Dr. Karthikeyan
- Dr. Sarfaraz

**2019 – 2021 (Secondary)**

- Dr. Chacko Paul Joseph
- Dr. Jefferson S. James B
- Dr. V. Srinivasa Rao
- Dr. Jafre S. Shahidali
- Dr. Sreeharsha P
- Dr. Hemant Kumar A

**2020-2022 (Secondary)**

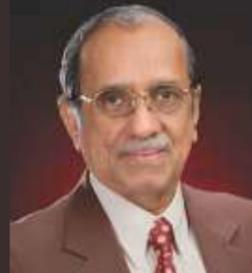
- Dr.Vinay K Y
- Dr.Gulam Muhammed Shafeeq
- Dr.Jagarlamudi Deepak
- Dr.Shabeet K T
- Dr.Owais Ahmed
- Dr.Sachin Angadi

**2021-2023 (Secondary)**

- Dr.Abinav M R
- Dr.Arvind Kumar Anal
- Dr.Chinmoy Sharma
- Dr.Naresh S
- Dr.Prasanth R

**2022-2024 (Secondary)**

- Dr.Mohammed Abbas
- Dr.Ankit Kumar Bhalotia
- Dr.Navneet Sharma
- Dr Arul Kumaran



**Prof Dr M V Daniel Gold Medal**

Our Academic Director Prof Dr M V Daniel has always been passionate and particular about clinical commitment in the trainees. To foster and promote patient care and compassion, a Gold Medal has been instituted in his name from 2009. Every year all the consultants select and vote for the best post graduate who had shown excellence in clinical care and commitment for whom the medal is awarded.

- 2009 - Dr. Devendra A
- 2010 - Dr. Srikanth K P
- 2011 - Dr. Ravichandra V
- 2012 - Dr. Ratna Mohan Rao
- 2013 - Dr. Sudhir G
- 2014 - Dr. Joydeep Mallik
- 2015 - Dr. Jishanth James B
- 2016 - Dr. Ankit Soni
- 2017 - Dr. E Sathyamoorthy
- 2018 - Dr. Parsana C Jagdishbai



2009 - Dr. Devendra A receiving the Prof M V Daniel Gold Medal



2010 - Dr. Srikanth K P receiving the Prof M V Daniel Gold Medal



2011 - Dr. Ravichandra V receiving the Prof M V Daniel Gold Medal



2012 - Dr. Ratna Mohan Rao receiving the Prof M V Daniel Gold Medal



2014 - Dr. Joydeep Mallik receiving the Prof M V Daniel Gold Medal



2015 - Dr. Jishanth James B receiving the Prof M V Daniel Gold Medal



2018 - Dr. Parsana C Jagdishbai receiving the Prof M V Daniel Gold Medal



**THE INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE**



**ISSLS Basic Science Best Podium Paper Award 2021**

"Spine and Radiology Unit of Ganga Hospital, Coimbatore has got the unique distinction of winning the Best Podium Scientific Research Paper Award in both categories of "Basic Science" and "Clinical Science" in ISSLS 2021. ISSLS Basic Science. Best Podium Paper 2021 Topic: Human Lumbar Discs are not sterile! - Defining the Normal Intervertebral Disc Microbiome.

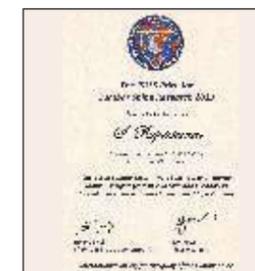
S Rajasekaran, Soundararajan Dilip Chand Raja, Tangavel Chitraa, Nayagam Sharon Miracle, Muthurajan Raveendran, Matchado Monica Steffi, K S Vijayanand"



**"ISSLS Clinical Science Best Podium Paper Award 2021**

Topic: The Nocebo Effects of an MRI Report on the Patient and the Benefit of Reassurance - Results from a Randomized Clinical Trial of 44 patients.

S Rajasekaran, Soundararajan Dilip Chand Raja , B T Pushpa, Behera Anand, Kanna Rishi Mugesh, Shetty Ajoy Prasad"



**ISSLS Prize 2023 : Basic Science Award**

Topic: Lactate in Lumbar Disc - Metabolic Waste or Energy Biofuel? insights from in-vivo mrs and T2R analysis following exercise and nimodipine in healthy volunteers

S Rajasekaran, Soundararajan Dilip Chand Raja , B T Pushpa, Behera Anand, Kanna Rishi Mugesh, Shetty Ajoy Prasad"



**AWARDS  
2019 - 2022**

**AWARDS  
AIMING HIGH**

- Winning awards in recognition of service to the people, meritorious academic work and original research works has been the tradition at Ganga Hospital.
- The institute has got more than 15 international awards of excellence and 100 national awards in various scientific and social forums in the last 25 years.
- During the years 2015-18, six international awards and 53 national awards were garnered including the Best Orthopaedic Hospital award 2016 by CNBC network & IMC RBNQ Performance Excellence trophy.

“ Excellence is doing ordinary things extraordinarily well - John Gardner ”





The team is a unique and multidisciplinary consisting of spine surgeons (Dr S Rajasekaran, Dr Dilip Chand Raja, Dr Vijay Anand, Dr Ajay Prasad Shetty, Dr Rishi Mugesh Kanna), radiologist (Dr B T Pushpa), Basic Science Specialists (Dr Raveendran Muthurajan, Dr Chitra Tangavel, Ms Sharon Nayagam, Mrs Sunmathi and Ms Steffi)

Ganga Hospital  
Spine Research Team,  
**Won** the prestigious  
North American Spine Society  
Research for four years  
consecutively -  
2019, 2020, 2021 and 2022



**North American Spine Society**

<p><b>2019 Award</b></p> <p><i>"Inflammaging Determines Health and Disease in Lumbar discs- Evidence from Differing Proteomic Signatures of Healthy, Aging and Degenerating Discs"</i></p>	<p><b>2020 Award</b></p> <p><i>"Uncovering Molecular Targets for Regenerative Therapy in Degenerative Disc Disease: Do Small Leucine-Rich Proteoglycans hold the Key?"</i></p>	<p><b>2021 Award</b></p> <p><i>"Why do Modic Changes Result in Poor Clinical Outcomes? – Novel Insights from Proteomic analysis of Lumbar discs with Modic changes"</i></p>	<p><b>2022 Award</b></p> <p><i>'Perioperative Analgesic Efficacy and Safety of Erector Spinae Plane Block in Posterior Cervical Spine Surgery – A Double-Blinded, Randomized Controlled Study'</i></p>
			

**Awards**

The Spine research team of Ganga Hospital, headed by Prof. Dr. S. Rajasekaran have been performing pioneering research in the field of spine surgery for which they have been the recipients of many national and international awards. This year the team has created a record by winning the North American Spine Society (NASS) Outstanding Research award for the fourth time consecutively this year.

The North American Spine Society (NASS) is one of the most prestigious premier multidisciplinary medical organization representing more than 9000 members comprising of 67 countries. Every year NASS and 'The Spine Journal' offer an award of USD 10,000 to recognize excellence in unpublished spine research which are one of the most prestigious awards in spine surgery worldwide and is fiercely competed by researchers from all over the world. The submissions are carefully vetted and evaluated by a panel of esteemed judges and the award winning research work is also published in 'The Spine Journal', the prestigious official journal of the society.



**4th Time in a Row..**

Dr Sri Vijayanand, Consultant Spine Surgeon received the NASS Outstanding paper award for the year 2022. This was awarded at the NASS Annual meeting held on Oct 12-15 at Chicago, USA, for the research paper titled, "Safety and efficacy of Erector spinae block in Posterior cervical spine surgery"



Dr Rishi Kanna, Consultant Spine Surgeon received the NASS Outstanding paper award for the year 2022. This was awarded at the NASS Annual meeting held on Oct 12-15 at Chicago, USA, for the research paper titled, "Safety and efficacy of Erector spinae block in Posterior cervical spine surgery"



**Spine Surgery Unit, Ganga Hospital, Coimbatore**  
**Won Five Major Awards in**  
**Asia Pacific Meeting in Seoul, Korea - 2019**



Dr S Rajasekaran getting the Award during the APSS APOSS meeting in Seoul, Korea

- 1) Asia Pacific Spine Society Best Clinical Research Award
- 2) Asian Spine Journal Award for Best Clinical Paper
- 3) Asia Pacific Spine Society Basic Science Research Award
- 4) Asian Spine Journal Award For Best Basic Science Paper
- 5) APSS – SICOT Exchange Travelling Fellowship 2019

Asia Pacific Spine Society meeting is the most prestigious meeting of all the countries of the Asia Pacific region where all prominent and pioneering spine surgeons from the countries of Japan, Korea, China, India, Singapore, Malaysia, Pakistan, Bangladesh and Australia participate and deliberate on scientific advances in the field of spine surgery. This year the annual meeting was held in Seoul, Korea from 4-6th April 2019 where more than 600 leading spine surgeons participated. The scientific research work presented from Ganga Hospital was awarded the four major awards. Ganga Hospital presented 9 oral podium presentations and six scientific poster presentations. r navigation surgery and also basic science proteomics work which analysed the proteome of fetal spine.

**'Harold Tschereene Teaching' Award - Dr S Rajasekaran**

The award is named in honour of eminent Prof. Harald Tschereene, Germany who contributed immensely by evolving concepts in management of limb injuries. In the last 20 years, the award has been given only to six eminent surgeons from different parts of the world who have contributed by their original and innovative techniques or concepts which has radically changed and improved the treatment of severely injured patients. Dr S Rajasekaran was awarded this prestigious award for devising 'Ganga Hospital open injury score'. He is the first person to be nominated and elected from the whole of Asia Pacific region to this prestigious position. While, all the previous Chairs hail from North America and Europe.



**Research Grant Award 2022 - 2023 - Dr SR Sundararajan**  
**Transactional Research in (ISAKOS)**

International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine. Mexico.

**COUR International Visiting Scholar Award 2019**

**Dr Venkatadass K**

from POSNA (Pediatric Orthopedic Society of North America). He attended the POSNA Annual Meeting held in Charlotte from May 17-20, 2019.



**Lifetime Achievement Award 2022**

**- Dr. Ajoy Prasad Shetty**

Dr. Ajoy Prasad Shetty received the Lifetime Achievement Award from the Spinal Cord Society during the Combined 22nd International Spine and Spinal Injuries Conference, 21st Asian Spinal Cord Network Conference (ISICON 2022), held in Indian Spinal Injuries Centre, New Delhi on 3rd December 2022. He got this award in recognition of his excellent contribution towards the management of spinal ailments and devoting his life to this noble cause."

**International-ISAKOS Award For Young Investigator Scholarship & Research Mentoring Award 2021, Boston USA.**

**- Dr. Ramakanth Rajagopalakrishnan**

Appreciation By Indian Arthroscopy Society (IAS) President



**Best Young Investigator Award, SICOT Congress 2022**

**- "Dr. Terence Dsouza,**

received the Best Young Investigator Award @ SICOT CONGRESS 2022 held @ Kuala Lumpur, Malaysia."

**OrthoPediatrics / SICOT Foundation Scholarship Best Poster Medal - (SICOT 2022)**

**- Dr Deepak Jain,**

"Isolated Volar-Lunate Facet Injury of the distal radius – does it exist in children? Report of an unreported injury" presented during 42nd World Orthopaedic Congress (SICOT 2022) held at Kuala Lumpur.



**Dr. Ketan Khurjekar Memorial Best Paper - APSS + BSS Mumbai 2020**

**- Dr. Dilip Chand Raja .S**

Topic: Preoperative Modic changes and Total End Plate Score are independent risk factor for developing postoperative surgical site infections - A single center retrospective analysis of 1124 patients



**APSS Best Clinical Research Award 2022**

**(Asia Pacific Spine Society )**

**- Dr. Karthik R**

Pre-emptive Analgesia through Erector Spinae Plane Block in Posterior Cervical Spine Surgery- A Prospective Randomized Controlled Study

**Dr Robert Bauze Gold medal for Trauma, APOA meeting Bangkok on Sep 21,2019**

**- Dr. Siva Kumar S P**

Topic: "Effectiveness of Ganga Hospital Open Injury Score in Predicting Salvage and Amputation in Open Injuries "



**2020 ISSLS Young Investigator Travel Grant**

**Dr. Dilip Chand Raja S**

Topic : "Disc 'Dysbiosis' as a cause of Inflammaging and Lumbar Intervertebral Disc Degeneration – Revelations form Next Generation Sequencing Analysis"

**ISAKOS Achilles Orthopaedic Sports Medicine Research Award, -2023**

**- Dr. Ramakanth Rajagopalakrishnan**

Topic: "Progressive foot peak pressure analysis after FHL transfer for Chronic retracted Tendo-achilles tear" - A Pedobarographic analysis of Normal Foot Versus affected foot.





**Dr B B Dixit Oration for the year 2022  
- Dr J Balavenkatasubramanian**

Dr B B Dixit Oration for the year 2022 in the 48th Annual Conference of the BJ Medical College Research Society at Pune on the 20th April 2022"

**Maruthuva Rathinam Award 2021  
- Dr J Balavenkatasubramanian  
presented by Rotary Club of Downtown**

Doing outstanding work to fight the Covid Pandemic.



**K.T. Dholakia Best Paper Award,  
18th ROC 2020, Mumbai  
Dr. Raja Bhaskara Rajasekaran**

Topic: Minimal undercorrection gives better outcomes following total knee arthroplasty in severe varus knees - Myth or Reality?- Analysis of 162 knees with varus greater than 15°

**Best Poster at POSICON 2019  
- Dr. Sangeet Gangadharan**

Topic: Software for planning precise intra-operative correction of rotational deformity of extremity.



**Best AO spine e-poster Award 2019,  
- Dr. Rajdeep Bagga**

Topic : Can unstable hangman's fracture be managed with anterior only surgery : A Comparative analysis



**AORA Dr Ravindra Bhat Oration 2023  
- Dr J Balavenkatasubramanian**

13th Annual National Conference of Academy of Regional Anaesthesia of India held at Pune

**Best Poster Medal - International Spine and Spinal Injury  
Conference (ISSICON 2021) at 18th - 21st November, 2021  
- Dr Karthik**

Radiological Predictors of SCI in cervicothoracic translational injuries



**66 Annual Conference of Indian Orthopaedic  
Association (IOACON 2021) at Goa,  
21st to 25th December 2021- Dr. Baksi Gold Medal  
- Dr Arunkamal C**

" An Analysis of Burst Olecranon Fractures associated with Elbow Dislocation".

**SS Yadav Gold Medal, IOACON 2019, Kolkata  
Dr. Raja Bhaskara Rajasekaran**

Topic: Role of Impaction bone grafting of allografts in the management of benign lesions of the femoral neck



**IOACON, 2022 GOA  
'A A Mehta Gold Medal'  
- Dr Dharanikumar**

Topic: Midterm followup of functional and radiological outcomes of calcaneal fractures treated by sinus tarsi pinning and lateral extensive plating - a prospective RCT



# Annual Conference of Tamil Nadu Orthopaedic Association Awards 2019 to 2022



**Dr Raja Bhaskara Kanakeshwar**  
TNOA Prof. Vyageshwaradu  
Gold Medal 2019



**Dr Sri Vijay Anand K S**  
TNOA Prof. A. Subramaniam  
Gold Medal 2019



**Dr Blessin Cherian**  
TNOA Dr David Rajan  
Sub-specialty medal in  
Arthroscopy 2019



**Dr Rishi M Kanna**  
TNOACON Certificate of  
Appreciation 2019



**Dr Raja Bhaskara Kanakeshwar**  
TNOA Publication Award 2019



**Dr. Arun Kamal C**  
Gold Medal for Best Publication -  
TNOA JOURNAL 2020



**Dr. Ramakanth R**  
Dr. David V Rajan Medal for  
Arthroscopy and  
Sports Medicine 2020



**Dr Rajesh R**  
Prof. S. Rajasekaran Medal  
for Spine 2020



**Dr Soundarajan D**  
Dr Vidhyasagar Arthroplasty for  
Best Poster Medal 2020



**Dr Sri Vijayanand K S**  
Prof. A. Subramanian Medal  
For Basic Research in Orthopaedics



**Dr. A. Devendra**  
Dr. Ramanathan  
Consultant Medal 2021



**Dr. K. Venkatadass**  
Prof. Sriram Medal for  
Paediatric Orthopaedics 2021



**Dr. Ramakanth R**  
Prof. B Radhakrishnan  
Gold Medal for Foot and Ankle 2021



**Dr. Kavinkumar**  
Prof. Myilvahanan Natarajan  
Gold Medal for Ortho-Oncolgy 2021



**Dr. Guna Pratheep**  
Prof. Vyageswarudu Medal 2021



**Dr. Deepak Jain**  
Erode Ortho Club Medal Poster 2021



**Dr SR Sundararajan**  
Prof M Ramanathan  
Gold Medal 2022



**Dr Rishi Mugesh Kanna**  
TNOA President's  
Appreciation Award 2022



**Dr Ramakanth R**  
Prof B Radhakrishnan  
Gold Medal 2022



**Dr Terence Dsouza**  
Dr David Rajan G  
Gold Medal 2022



**Dr Dharani Kumar P S**  
Subspecialty Medal  
for Foot and Ankle 2020



*Dr S Rajasekaran delivered the Hunterian Oration of the Royal College of Surgeons of England 2012*



*Dr S Rajasekaran receiving the award from Prof John P Dormans, President of the Scoliosis Research Society, USA and Prof Hani H Mahidli, Chairman, Global Committee.*



*Dr S Rajasekaran receiving the IOA Golden Jubilee Commemoration Lecture Award, Jaipur, 2010*



*Dr S Rajasekaran receiving the Twelfth Dr S Rangarajan Memorial Oration Award, Chennai, 2009*

- 1) **Late Air Marshal AS Chahal Oration - CME on 'Spinal Cord Injuries: Past, Present and Future', Military Hospital, Kirkee, Pune, 9-10 Dec 2022**  
Topic: Beyond Surgery – The Value of Rehabilitation
- 2) **Spinal Cord Society Oration Combined 22nd International Spine and Spinal Injuries Conference, 21st Asian Spinal Cord Network Conference (ISICON 2022), New Delhi**  
Topic: Value of End-to-End case of Spinal Cord Injuries
- 3) **Prof GDS Sundararaj Oration - CMC Vellore. 26th Nov 2022**  
Topic: Learning and reflections from three decades of spine surgery
- 4) **Plenary Talk - 7th Annual Conference of Minimally Invasive Spine Surgery of Bharat (MISSABCON 2022), 19th Nov 2022. Pune**  
Topic: Spine Surgery in Next generation: How will it change
- 5) **Special Invited Guest Lecture - 18th Annual Conference of IAACON (Indian Arthroplasty Association) 2022, 7-9 Oct 2022, Coimbatore**  
Topic: "Mentorship in the times of Google and Virtual Reality"
- 6) **Guest Lecture - 19th Annual Conference of IASCON (Indian Arthroscopy Society) 2022, 15-17 Sep 2022, Hotel Le Meridian, Coimbatore**  
Topic: Choosing Wisely
- 7) **Plenary Talk - Ganga Operative Trauma Course 2022, 1-3 July 2022, Ganga Hospital, Coimbatore**  
Topic: Why trauma surgery is the ultimate super speciality in orthopaedics.
- 8) **Plenary Talk - Ganga Anaesthesia Refresher Course 2022, 6-8 May 2022, Ganga Hospital, Coimbatore**  
Topic: David & Goliath: Lessons for us
- 9) **ASSI Clinical Research Award - Annual Conference of Association of Spine Surgeons of India 29 April to 1st May 2022, Gyan Bhawan, Samrat Ashok, Convention Centre, Patna**  
Topic: A Validated score for evaluating Spinal Instability to assess Surgical Candidacy in Active Spinal Tuberculosis – An Evidence based approach and multinational Expert Consensus study
- 10) **Presidential Guest lecture - Bombay Spine Society (BSSCON 2021) Annual Meeting, 20th & 21st November 2021**  
Topic: The significance of Thoracic inlet status in cervico-thoracic deformities'
- 11) **Dr. B. B. Ohari Oration - 39th Conference of MP-IOACON 2021, Bhopal, 16th October 2021**  
Topic: "Surgeon to Surgeon Scientist" - need for transformation
- 12) **TED TALK - TEDx Amrita Vishwa Vidyapeetham, Coimbatore, 9TH October 2021**  
Topic: "One Planet but Two Worlds" - Why developing countries must do their own research and innovation.



*Dr. S Rajasekaran delivering the Dr. Rajammal P Devadas Annual Oration 2007 at Avinashilingam University, Coimbatore*



*Dr. S. Rajasekaran receiving the "WOCKHARDT" Medical Excellence Award in the field of Orthopaedic surgery from the Union Minister of Commerce Shri Kamal Nath at New Delhi.*



*Prof C. Vyageswarudu Oration on "Role of Computer Navigation in Arthroplasty" delivered by Dr S Rajasekaran 22-23 October 2005, at 35th Andhra Pradesh Orthopaedic Association Conference, Guntur*



*Prof Kalyanaraman Oration, Chennai, 2008*

- 13) **ASSI Basic Science Award - Annual Conference of Association of Spine Surgeons of India (ASSICON 2021), 29-31 January 2021**  
Topic: Sub-clinical infection can be an initiator of inflammaging leading to degenerative disc disease – Evidence from host defense response Mechanism
- 14) **ASSI Research Grant Award 2019 - Annual Conference of Association of Spine Surgeons of India (ASSICON 2021), 29-31 January 2021**  
Topic: Investigating the pathogenesis of Adolescent idiopathic scoliosis and the Influence of mechanical loading on scoliotic disc - A proteomic analysis".
- 15) **BSS Oration - Annual Conference of Bombay Spine Society (BSSCON) 2020, 20th December 2020**  
Topic: – Spinal Tuberculosis - Surgical management - What has Changed, what's in future?
- 16) **GARC Oration - GARC 2020, 12th December 2020**  
Topic: Pandemic Blues – Observations and Lessons Learnt Beyond Medicine
- 17) **Key note Address - ISSICON (International Spine & Spinal Injuries Conference) 2020, 12th December 2020**  
Topic: - Kyphotic deformity in spinal tuberculosis.
- 18) **Plenary Lecture - 30th SBAOI 2020 (Society for Biomaterials and Artificial Organs-India) Annual Meeting. & International Conference on Biomedical Materials Innovation, 7 December 2020**  
Topic: The Science of Metallurgy regarding implants in Orthopaedic Surgery
- 19) **Dr. D. Subbarayan Oration - CME on Robotic Surgery (16th Anniversary Celebration of SPOT Hospital, Chennai, 20th September 2020**  
Topic: Advances in technology – How to evaluate & how to adopt
- 20) **Dr K P Srivastava Oration - 44th Annual Conference of UP Orthopaedic Association 2020, Lucknow, 15-16 February 2020**  
Topic: From Individual to an Institution – The Guru Mantra
- 21) **KM Yusuf Memorial Oration - CAPSON (Coimbatore Association of Pediatric Surgeons) 2019, July 13, PSG IMS & R, Coimbatore**  
Topic: Spinal Deformities in Children
- 22) **Key Note Address - 9th Annual Conference of the Academy of Regional Anaesthesia of India, 04-07 July 2019, Hotel LeMeridian, Coimbatore**  
Topic: Work Life Balance: A Challenge
- 23) **Bombay Hospital Oration - 7th Annual Bombay Orthopaedic Course (BOSC 2019), 28 - 30 June 2019, Bombay Hospital, Mumbai**  
Topic: Problem of Kyphosis in tuberculosis
- 24) **Prof. S.S.K. Marthandam Endowment 9th Oration SCORE 2019, Sri Ramachandra Institute of Higher Education & Research, 1st Feb 2019, Chennai**  
Topic: Achieving Professional Excellence

## Dr S Rajasekaran Orations and Plenary Lectures 2019-2022



Dr S Rajasekaran receiving the Dr K P Srivastava Oration Certificate from Dr Atul Srivastava



Dr S Rajasekaran delivering the Late Air Marshal as Chahal Oration



Dr. S. Rajasekaran receiving the plaque from IOA president Dr Mandeep Dhillon and IOA Secretary Dr Atul Srivastava



Prof. Dr. S. Rajasekaran receiving the KREST oration on the 6th of March 2016 at Hyderabad

- 1) **Plenary Talk**  
**22nd APOA Congress. Manila, Philippines, Nov 24-26, 2022**  
Topic: David Vs Goliath - The Role of APOA in the World Medical Scenario
- 2) **AO Spine Asia Pacific East Asia Conference, Aug 20,21, 2022, Singapore**  
Topic: How to translate basic science information for clinical use. Does Gut Bacteria influence DDD?
- 3) **Debate:**  
**48th ISSLS Annual Meeting, Boston, USA May 9-13, 2022**  
Topic: Is subclinical infection a cause for disc degeneration and low back pain? -Fact
- 4) **SICOT Pioneer – Research Award, 11th December 2021**  
Topic: Research in the developing world. Why is it necessary?
- 5) **NASS Outstanding Paper Award 2021**  
**36TH Annual Meeting of the North American Spine Society (NASS), Sep 29-Oct 2, 2021, Boston, USA**  
Topic: Modic Changes are Associated with Activation of Intense Inflammatory and Host Defense Response Pathways–Molecular Insights from Proteomic Analysis of Human Intervertebral Discs
- 6) **SICOT Research Award for Best Basic Science Paper 2021**  
**41ST SICOT Orthopaedic World Congress, Budapest, Hungary, 15-18 September 2021**  
Topic: Comparative Proteomic Analysis of Fetal, Healthy Adult and Diseased Discs to identify Biomarkers of Degeneration and Candidate Molecules for Regeneration”
- 7) **DEBATE**  
**21st Biennial Congress of the Asia Pacific Orthopaedic Association (APOA), 29-31 July 2021**  
Topic: Pedicle screw insertion in spine surgery: Should we rely on Computer navigation?
- 8) **Infection Award**  
**21st Biennial Congress of the Asia Pacific Orthopaedic Association, 29-31 July 2021**  
Topic: Presence of Pre-operative modic changes and end plate defects are independent risk factors for developing post operative surgical site infection – A retrospective case control study.
- 9) **Orthopaedic Research Award**  
**21st Biennial Congress of the Asia Pacific Orthopaedic Association, 29-31 July 2021**  
Topic: Human Intervertebral Discs harbor a unique microbiome and dysbiosis determines health and disease.
- 10) **Spine Award of APOA**  
**21st Biennial Congress of the Asia Pacific Orthopaedic Association, 29-31 July 2021**  
Topic: A Randomised controlled trial analyzing the efficacy of local osteophyte Graft Versus allograft in anterior cervical discectomy and fusion.

## Dr S Rajasekaran Orations and Plenary Lectures 2019-2022



Prof. S. Rajasekaran receiving the plaque from Dr. K. Raghuvver Adiga.



Platinum Jubilee Oration 2018, KEM Hospital, Mumbai



Dr Verghese Chacko Oration 2015 Karnataka Orthopaedic Association



Dr S Rajasekaran felicitated for delivering the Pesi B Chacha Oration at Singapore

- 11) **ISSLS Best Paper in Clinical Science**  
**ISSLS 2021 Annual Meeting, June 2-4, 2021**  
Topic: The Nocebo Effects of an MRI Report on the Patient and the Benefit of Reassurance - Results from a Randomized Clinical Trial of 44 patients
- 12) **ISSLS Best Paper in Basic Science**  
**ISSLS 2021 Annual Meeting, June 2-4, 2021**  
Topic: Human Lumbar Discs are not sterile: Defining the Normal Intervertebral Disc Microbiome
- 13) **Symposium on Patient Safety and Spine Care**  
**SPINE20 Meeting, Riyadh, Nov 10-11, 2020**  
Topic: Role of modern technology Vs Cost in patient safety.
- 14) **The Davos Debate**  
**AO Davos Course 2019, Congress Centre, Davos, Switzerland. 8-11 Dec 2019**  
Topic: Surgical training – Is Simulation everything?.
- 15) **Keynote address**  
**SICOT 2019 “40th Orthopaedic World Congress”, Oman Convention & Exhibition Centre, Oman, Muscat, 5-7 Dec 2019**  
Topic: The Ganga hospital score and how it has influenced care of Open injuries.
- 16) **Plenary Lecture**  
**SLOA 2019 (Srilankan Orthopaedic Association Meeting), Galadari Hotel, Colombo, 22-24 Nov 2019**  
Topic: Dilemmas in Lumbar Disc Surgery
- 17) **Plenary Lecture:**  
**SLOA 2019 (Srilankan Orthopaedic Association Meeting), Galadari Hotel, Colombo, 22-24 Nov 2019**  
Topic: Treatment of Spinal Tuberculosis – From Percivall Pott to Now – What has changed?
- 18) **Plenary Lecture:**  
**SLOA 2019 (Srilankan Orthopaedic Association Meeting), Galadari Hotel, Colombo, 22-24 Nov 2019**  
Topic: Work Life Balance
- 19) **Plenary Lecture**  
**SLOA 2019 (Srilankan Orthopaedic Association Meeting), Galadari Hotel, Colombo, 22-24 Nov 2019**  
Topic: Current applications of Ganga Hospital Open Injury Score
- 20) **BOSCON ORATION 2019**  
**32nd Annual Scientific Congress (BOSCON 2019), Bangladesh Orthopaedic Society Conference, Dhaka, 3-5 February 2019**  
Topic: Work Life Balance



**ASSI Publication Award 2019, 2020, 2021 & 2022**  
**ASSI Basic Sciences Award 2020**  
**IASA Research Grant Award 2019 Dr. S. Rajasekaran**

**ASSI Basic Sciences Award 2019 - Dr. Sri Vijay Anand K.S.**

Topic : The lumbar intervertebral discs are not sterile in health and disease - Revelations from NGS analysis



**ASSI Young Investigator Award 2022 - Dr Karthik R**

Pre-emptive Analgesia Through Erector Spinae Plane Block In Posterior Cervical Spine Surgery: A Prospective Randomized Controlled Study

**VTI Gold Medal 2018 - Dr. Anand Behra**

Topic : MRI Disease: are we Creating New Entity  
 How MRI Report Changes Patients Perception of Low Back Pain



**ASSI Young Investigator's Award 2019 - Dr. Keerthivasan P**

Topic : Does fresh whole blood improve the clinical outcome and serological parameters better than blood components transfusion in major spine surgeries? - a prospective randomized controlled study

**ASSI Basic Science Research Award 2021 - Dr. S. Rajasekaran**

Topic: "Sub-clinical Infection can be an Initiator of Inflammaging leading to Degenerative Disc Disease – Evidence from Host Defense Response Mechanisms"

**ASSI Publication Award 2021 - Dr. S. Rajasekaran**

This was awarded for the maximum number of impactful publications with a record 45 spinal disorder related manuscripts published in 2020.

**ASSI Young Investigator Award 2021 - Dr. S. Dilip Chand Raja**

Topic: "The Catastrophization Effects of an MRI Report on the Patient and Surgeon and the Benefits of 'Clinical Reporting' - Results from an RCT and Blinded Trials"

**VT Ingalhalikar Gold Medal Award 2021 - Dr. S. Dilip Chand Raja**

Topic: "Why do Modic Changes Result in Poor Clinical Outcomes? – Novel Insights from Proteomic analysis of Lumbar discs with Modic changes"

**ASSI Clinical Research Award 2021 - Dr. Renjith K R**

Topic: "All-Posterior Approach in Surgical Management of Thoracolumbar tuberculosis; A Prospective Randomized Study Comparing Posterior - Only Stabilization Versus Global Reconstruction"

**Best Podium presentation Award 2019 - Dr. Renjith K R**

Topic : Classification and Management Algorithm For Post-Operative Infections Following Transforaminal Lumbar Interbody Fusion

**ASSI Travelling fellowship Award 2019 - Dr. Dilip Chand Raja .S**

**Association of Spine Surgeons of India Young Investigator's Award 2020, Dr. Dinesh Kumarasamy**

Topic : "Lumbar Disc Herniation and Modic changes: Influence on the Clinical Outcomes after Microdiscectomy"

India's Best Hospitals



Coimbatore



2015 to 2022

**BEST HOSPITALS ORTHOPAEDICS**

RANK	Hospital	CITY
1	All India Institutes of Medical Sciences	Delhi
2	<b>Ganga Medical Centre &amp; Hospitals Pvt Ltd</b>	<b>Coimbatore</b>
3	Christian Medical College	Vellore
4	Postgraduate Institute of Medical Education and Research	Chandigarh
5	Apollo Hospitals	Chennai

For Seven Years In A Row...

**First** Amongst "All Private Hospitals" in India and  
**Second** "Best Hospital" in India

A symbol of Perfect Team Work, 202 Doctors, 750 Nurses, 1183 Health care Workers but one aim "Your Safety, Well-Being and Health"



We thank our patients and the medical professional for your confidence in us



**QIMPRO Awards 2022 - Gold Standards**



Dr S Rajasekaran received The Qimpro Gold Standards 2022 - Healthcare

Dr Rajasekaran received the **Qimpro Gold Standards 2022 for Healthcare Category** on 19th November at The Jade Ball Room, Nehru Centre in Mumbai. It was attended by over 200 dignitaries and leaders from the Business, Healthcare, Education and Environment circles, which included past judges and past winner.

Recognized as the country's premier quality citations, Qimpro Awards were conceptualized in 1989 by Dr J M Juran - the Quality Guru who catalyzed the quality revolution in Japan, post World War II. Dr Juran believed that for a quality revolution in India, we need to recognize individual excellence in quality management. He also believed that a national quality culture can be seeded by focusing on Quality in Healthcare and Quality in Education.

Over the past three decades, Qimpro Awards have evolved. Qimpro Foundation currently recognizes Quality Statesmen with the Qimpro Platinum Standard, and Quality Leaders with the Qimpro Gold Standard - in Business, Healthcare, Education and Environment. The winners are selected by four eminent Panels of Judges; each Chaired by the respective Qimpro Platinum Standard of the previous year.



**The Hospital Bagged The Prestigious IMC RBNQ Performance Excellence Trophy 2018 in the Health Care Category**



Dr & Mrs JG Shanmuganathan receiving the prestigious IMC Ramakrishna Bajaj Performance Excellence Trophy

Started in 1995, the IMC Ramakrishna Bajaj National Quality Award enjoys the stature of being one of India's most prestigious quality awards. The eponymous award symbolizes the values of the man who ardently promoted the importance of quality and ethics in our economic and social development. The award was instituted with the objectives of:

- Promoting quality awareness and practices in Indian business and asserting its importance in global competitiveness.
- Recognizing the achievements of Indian companies in the field of quality
- Publicizing successful quality strategies and programs.



**Ganga Hospital has won the prestigious**

**IMC Bajaj Excellence trophy (2019) and the IMC Quality Award in 2020.**



The criteria and the process of training and evaluation for this award are as rigorous as those of the Malcolm Baldrige awards of USA. All applicant organisations are given a detailed feedback report which forms the basis of mapping the quality journey of the organisation.



**Asia Pacific Quality Organization – Global Performance Excellence Award**

The GPEA is the only formal international recognition of performance or business excellence. The program is administered by the APQO which is non-stock, non-profit organization that serves as an umbrella group that brings together all of the leading quality professional societies in Asia Pacific Region. It reflects the evolution in the field of quality from a focus on product and service quality to a strategic focus encompassing overall organizational performance termed performance/organizational/business excellence.

**Best Energy Conservation - TECA -2019 Tamilnadu Electricity Consumers Association**

To raise awareness on energy efficiency and conservation, TECA recognizes and encourages endeavors of organization in reducing energy consumption. Ganga Hospital is felicitated with Best Energy Conservation Award.



**National Accreditation Board For Laboratories**

The Government of India has authorized NABL as the sole accreditation body for testing and calibration laboratories. Accreditation to a laboratory is given on the basis of its capability to perform tests and provide accurate and reliable results. Ganga Laboratory is accredited to NABL in the year 2019.

**Association of Healthcare Providers of India -'Patient Friendly'**

The annual award by AHPI recognizes and celebrates the excellence achieved by the healthcare organizations in various fields. GANGA MEDICAL CENTER & HOSPITALS are the proud recipient of AHPI Healthcare Excellence Award 2019 for Patient Friendly Category



**Best Energy Efficient Unit - 2023 Confederation of Indian Industry (CII)**

Ganga Hospital has won the prestigious awards of CII 'Energy Efficient Unit' at the 23rd National Award ceremony for 'Excellence in Energy Management' organised by the Confederation of Indian Industry (CII). The objective of these awards is to recognize the companies engaged in energy-efficiency initiatives that adopt best practices and technological advancement in their daily operations. The jury evaluated the participants on several parameters of energy efficiency and innovative thought process adopted.

**QCFI Gold Prize. 5S Implementation Quality Circle Forum of India**

QCFI is a nodal body for approving implementation of Quality Circle and other related concepts in organizations. The 5S Method is a standardized process that when properly implemented creates and maintains an organized, safe, clean and efficient workplace. The hospital has implemented 5S in clinical departments and has achieved Tangible and non tangible benefits.



**Best Hospital Providing Care Under TNCMCHIS (Chief Minister's Comprehensive Health Insurance Scheme.)-2019**

Ganga Hospital was conferred with Appreciation Award from Government of Tamil Nadu for high performance under Chief Minister's Comprehensive Health Insurance Scheme. No of Patients Under CM Scheme 2018-518.

# Ganga Research Centre



## Ganga Research Centre (GRC)

The basic science research wing of GOREF  
Jointly funded by the Department of Biotechnology,  
Government of India

- The new research facility was inaugurated on Feb 6th 2022 and has infrastructure to perform basic research using the Multiomics approach.
- GOREF has established a “Center for advanced Research in Low Back Pain and Degenerative Disc Disease” jointly funded by Department of Biotechnology, Government of India.

**Ganga Orthopaedic Research & Education Foundation (GOREF)** was established in 2002, to facilitate and conduct research in all aspects of orthopaedic surgery, in both clinical and basic sciences. GOREF is recognized by Scientific and Industrial Research Organization (SIROs), Ministry of Science & Technology, New Delhi. It directs and funds the research in both clinical and basic science divisions in musculoskeletal pathology. The strength of GOREF is its focus on translational research and its ability to harness the strength of Ganga Hospital, one of the largest clinical orthopaedic units in the country and Ganga Research Centre, a unit of basic science specialists skilled in genomics, proteomics and bio-informatics.

**Ganga Research Centre (GRC)** was established in 2015, in order to bridge fundamental and translational research. With improvements from bench-side techniques, it depends on the OMICS methodology to provide solutions to bedside concerns. It was initially created in a 1200 square ft building, but it subsequently grew into a 6000 square ft space with state-of-the-art facilities at a cost of 3 crores. A notable sum of 11 crore has been granted by Department of Biotechnology, India to the governing body of GRC, GOREF (Ganga Orthopaedic Research and Education Foundation) to accomplish the planned objectives and create an advanced spine centre that offer targeted therapy for musculoskeletal issues.

“Research is seeing what everybody else has seen and thinking what nobody else has thought ...”

## Highlights

- Exclusive 6000 sq ft facility with state-of-the-art equipments
- OMICS approach for translational research
- Genomics facility
- Proteomics facility
- Metabolomics facility
- Transcriptomics facility
- Bioinformatics facility for big data analysis



## Clinical Research Team



**Prof Dr S Rajasekaran**  
Chairman and Director,  
Dept of Spine surgery and Orthopaedics  
- GOREF, Ganga Hospitals



**Dr Ajoy P Shetty**  
Senior Consultant  
Spine



**Dr Rishi M Kanna**  
Consultant  
Spine



**Dr Srivijay Anand**  
Spine Surgeon



**Dr Pushpa BT**  
Senior Consultant  
Radiology

## Basic science Research Team



**Dr Chitraa T**  
Research Coordinator  
(Biotechnology)



**Dr V Gowdaman**  
DBT-RA Genomics



**Dr Murugesh E**  
DBT-RA Bioinformatics



**Ms Sharon MN**  
DBT-SRF Proteomics



**Dr Narmada Devi**  
DBT-SRF Proteomics



**Ms Sunmathi R**  
DBT-SRF Bioinformatics



**Mr S Ganesh**  
Project Assistant

National Advisory Board



**Prof. K Dharmalingam**  
Director of proteomics research,  
Aravind Eye Care System,  
Madurai



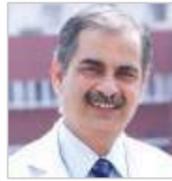
**Prof. Raveendran Muthuraj**  
Head of Genomics and  
Proteomics research,  
Tamilnadu Agricultural University,  
Coimbatore



**Prof. Kumaravel Somasundaram**  
Head of Microbiology and  
Cell Biology Research,  
Indian Institute of Science,  
Bangalore



**Prof. Kumarasamy Thangaraj**  
Group Leader,  
Centre for Cellular  
& Molecular Biology,  
Hyderabad



**Prof. Rajesh Malhotra**  
Professor & Head,  
Department of Orthopaedics,  
AIIMS, Delhi



**Dr Chellapa G**  
Director,  
Genomics,  
Coimbatore

International Advisory Board



**Prof. Kenneth Cheung**  
Chair Professor and Head,  
The Department of Orthopaedics and Traumatology,  
Queen Mary Hospital, Hong Kong



**Prof. Cody Bunker**  
Department of Orthopaedics,  
Aarhus University Hospital, Aarhus, Denmark



**Prof. Bjorn Rydevik**  
Department of orthopaedic surgery at  
Göteborg University and Sahlgrenska University,  
Gothenburg, Sweden

Research Collaborations & Support

<p><b>Department of Biotechnology Government of India</b> Diffusion tensor imaging of the spinal cord and its clinical applications</p>	<p><b>Department of genomics and proteomics, TNAU-Coimbatore</b> Molecular Biology Analysis - Isolation of DNA from blood samples and proteomic analysis of disc specimens</p>	<p><b>Department of Biochemistry, University of Delhi</b> Biochemical analysis for apoptosis and pro-inflammatory cytokines in Disc Degenerative Disease.</p>
<p><b>Department of Biochemistry and Biotechnology, Central Leather Research Institute, Adyar, Chennai.</b> Biochemical and collagen alterations in scoliotic discs subjected to abnormal mechanical forces.</p>	<p><b>Siemens India</b> Diffusion Tensor Imaging studies of Spinal cord, Functional MRI studies and Disc diffusion Analysis.</p>	<p><b>The University of Hong Kong</b> Selective Nucleotide Polymorphism analysis for genetic study</p>
<p><b>Rush University, Chicago</b> Functional Element Model Analysis of Post Tubercular Deformity</p>	<p><b>Cotrel Foundation, Paris</b> Role of Mechanical stress on the causation of disc degeneration - scoliotic disc study</p>	<p><b>AO Spine</b> - Effectiveness and Safety of Batroxobin, Tranexamic Acid and a Combination in Reduction of Blood Loss in Lumbar Spinal Fusion Surgery. The role of Preemptive analgesia in spine surgery</p>
<p><b>Dept. of Biotechnology CMC, Vellore</b> Electron microscopic analysis of disc specimens with respect to mechanical stress on the concave and convex side of scoliotic discs were analyzed.</p>	<p><b>Department of Biotechnology Government of India</b> Diffusion tensor imaging of the spinal cord and its clinical applications</p>	<p><b>Department of Biotechnology Government of India</b> Diffusion tensor imaging of the spinal cord and its clinical applications</p>

RESEARCH FOCUS & INFRASTRUCTURE

PROTEOMICS

aims to comprehend molecular alterations and host reactions to microbial antigenic responses or traumatic stress. Mass spectrometry has been the centre of the facility's enlarged facility line. Proteomics laboratory is well established with equipments for protein/metabolite quantification (Varioskan Lux), protein pre-fractionation (SE400, SE600 Ruby apparatus), high resolution pre-fractionation (ETTAN dalt six electrophoretic unit), vaccum concentrator (Speed vac concentrator), etc.,



Mass Spectrometry Facility

METABOLOMICS

With small molecules making huge impact on cellular metabolism and homeostasis, metabolomics aims to decipher at an angle of unveling underlying pathos behind disc disease. Mass spectrometry coupled with uHPLC platform helps in deciphering the problems.



Proteomics Facility

METAGENOMICS

Contrary to the beliefs of sterile intervertebral discs, our analysis was able to prove that intervertebral discs are a rich source of microbial colonization with the help of culture-independent NGS platform. Genomics laboratory is well established with equipments for sample homogenization (Bertin homogenizer), DNA quantification (nanodrop™), electrophoresis (BioRad agarose unit), PCR amplification (BioRad CF1000) and Real-time assays (BioRad CFX opus) with many more equipments for downstream analysis.



Genomics Facility

CELL CULTURE FACILITY

With the advent of in-vitro applications, we dwell into cell-culture facility for developing proof-of-concept: infective etiology. Cell culture facility has been funded by DBT and well-possessed with Co2 incubator, class II BSL facility, integrated inverted fluorescence microscope, cell counters.



Raw Data Processing Unit

MICROBIOLOGY FACILITY

In connection to culture-independent methods, culture-dependent methods are equally in need to aid in understanding the mode of colonization and multiplication.



Gene Amplification Facility

BIOINFORMATICS

Scientific subdiscipline, inextricably linked to the integration of all omics disciplines in order to annotate, analyse expression patterns, and provide novel ideas for better research divergence. The department has received a highly sought-after \$50,000 grant to utilise Amazon's massive computing infrastructures to run bioinformatic software programmes that are otherwise inaccessible to non-specialist users without adequate hardware infrastructures.



# Publications & Chapters



## Department Publications

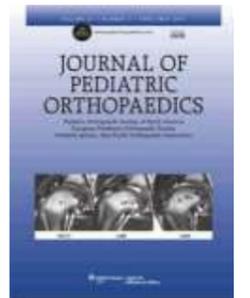
International Publications .....	406
National Publications .....	103
Total Text Book Chapters .....	75

## 2019 - 2022

International Publications .....	216
National Publications.....	79
Text Book Chapters .....	26

## Publications

- 1 Vyom Sharma, K R Renjith, Ajoy Prasad Shetty, Sri Vijay Anand K S, Rishi Mugesh Kanna P, S Rajasekaran. C7 distal fixation anchor and its influence on sagittal profile in posterior cervical fusion; a retrospective analysis of 44 cases. J Orthop 35 (2023) :54-57. doi: 10.1016/j.jor.2022.11.001. Published online: 5 Nov 2022 Jan. PMID: 36387765
- 2 Neerav Anand Singh, Ajoy Prasad Shetty, Sridhar Jakkepally, Dinesh Kumarasamy, Rishi Mukesh Kanna, Shanmuganathan Rajasekaran. Ossification of Posterior Longitudinal Ligament in Cervical Spine and Its Association With Ossified Lesions in the Whole Spine: A Cross-Sectional Study of 2500 CT Scans. Global Spine J. 2023 Jan;13(1):122-132. doi: 10.1177/2192568221993440
- 3 Rishi Mugesh Kanna, Karthik Ramachandran, Balavenkatasubramanian J, Ajoy P Shetty, S Rajasekaran. Perioperative Analgesic Efficacy and Safety of Erector Spinae Plane Block in Posterior Cervical Spine Surgery - A Double blinded, Randomized Controlled Study. Spine Journal 2023. Jan;23(1):6-13. doi: 10.1016/j.spinee.2022.04.010
- 4 S Rajasekaran, Chitraa Tangavel, Gowdaman Vasudevan, Murugesh Easwaran, Raveendran Muthurajan, Sri Vijay Anand KS, Chandhan Murugan, Sharon Miracle Nagayam, Rishi Mugesh Kanna. Bacteriae in human lumbar discs - subclinical infection or contamination?' - Metabolomic evidence for colonization, multiplication, and cell-cell cross talk of bacteria
- 5 Mark Lambrechts, Gregory Schroeder, Brian Karamian, .... Shanmuganathan Rajasekaran, Rishi Kanna, et al.Global Validation of the AO Spine Upper Cervical Injury Classification: Geographic Region Affects Reliability and Reproducibility. Global Spine Journal 2022
- 6 Alexander R Vaccaro, Mark J Lambrechts, Brian A Karamian, ... Shanmuganathan Rajasekaran, ... Rishi M Kanna, et al,AO Spine upper cervical injury classification system: a description and reliability study.
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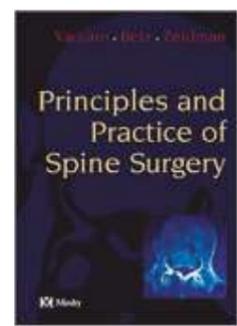
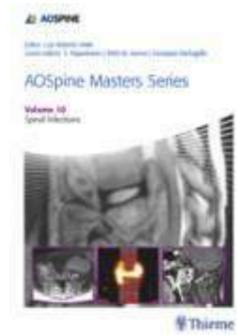
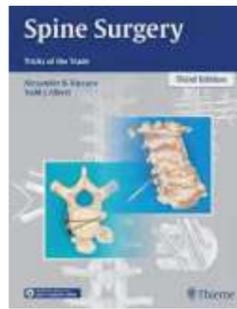
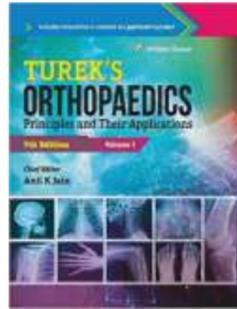
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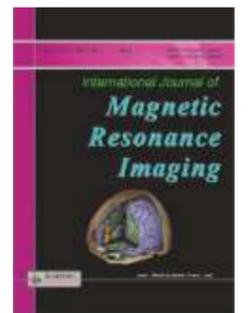
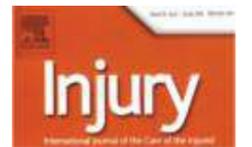
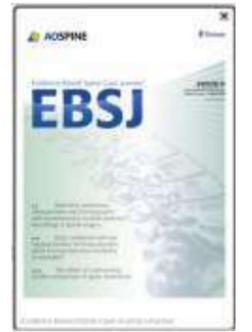
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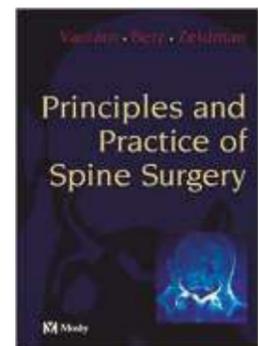
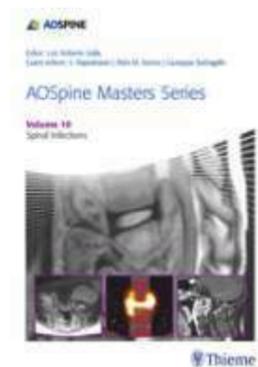
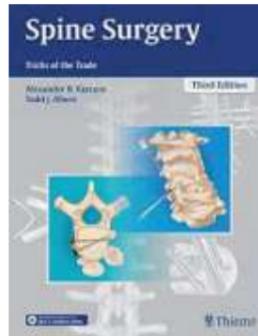
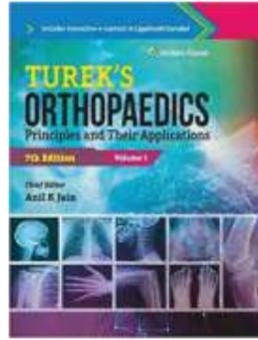
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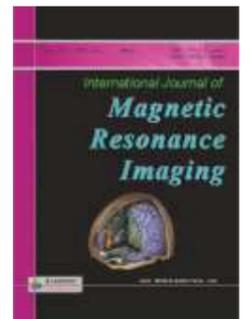
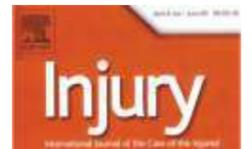
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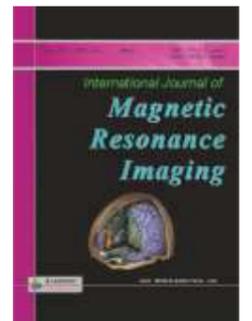
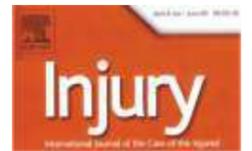
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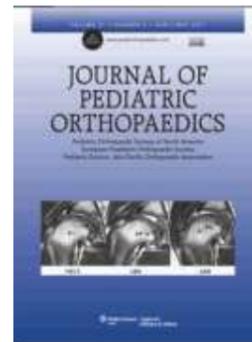
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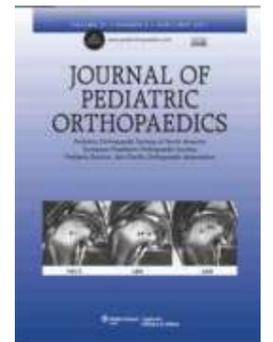
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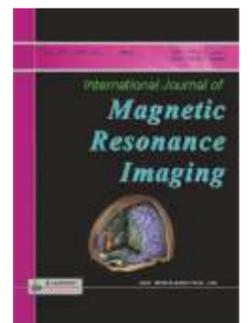
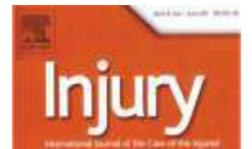
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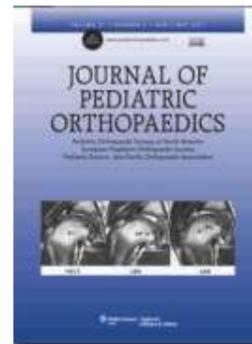
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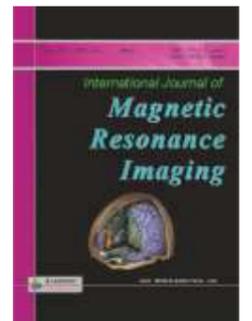
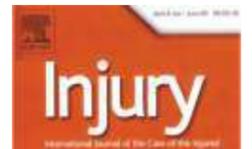
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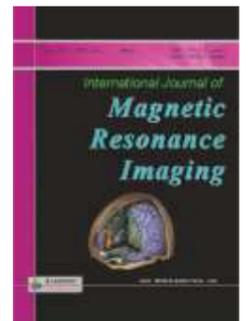
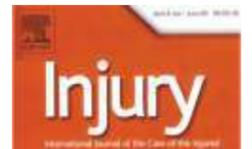
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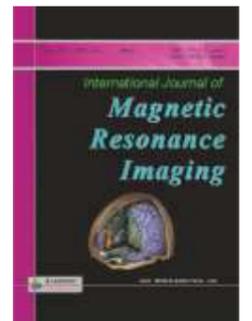
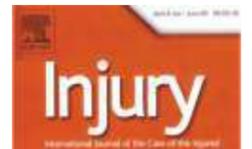
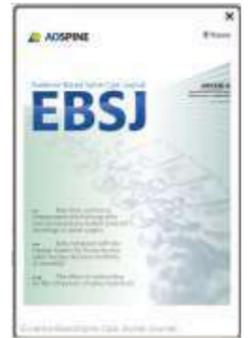
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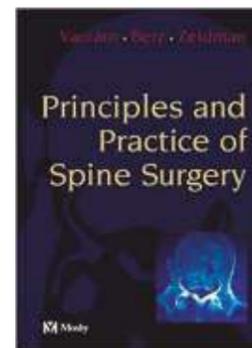
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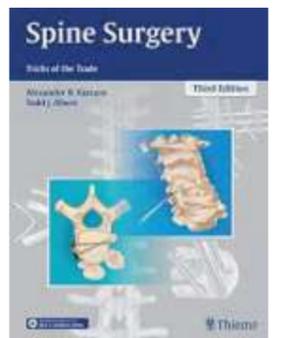
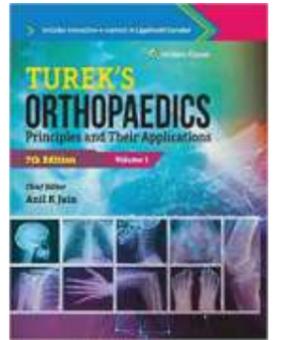
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## Ganga Visiting Professors

- Visiting professorship is a regular event in Ganga hospital since 2008.
- The institution invites visiting professors every year which is of great benefit to the entire team.
- Pioneers and stalwarts in various specialties of orthopaedics are invited to deliver lectures, conduct ward rounds and to perform surgeries in their areas of specialization.
- This gives a wonderful opportunity for all the staff members of the team from the trainee to the senior consultant to update themselves and learn the tips and tricks.
- Often the programme has a day long CME with the visiting professors where delegates around the state are invited to learn from the masters.

“  
Learn from the  
masters -  
The tips, tricks and  
taste of the trade  
”



Dr Alvin Crawford receiving the Visiting Professor plaque from Dr S Rajasekaran



Prof Wolfgang Klauser receiving the Visiting Professor plaque from Dr S Rajasekaran



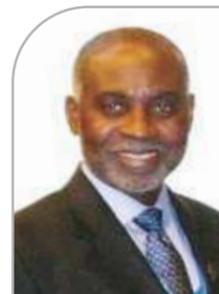
Marc F Swiontkowski,  
Chief editor - JBJS  
Professor, Department of  
Orthopaedics,  
University of Minnesota,  
USA

Prof. Marc F Swiontkowski, USA  
Visiting Professor 2008



Prof Jegan Krishnan,  
Chair in Orthopaedic  
Surgery,  
Flinders University,  
Adelaide, Australia

Prof. Jegan Krishnan, Australia  
Visiting Professor 2009



Dr Boachie, Professor  
of Orthopaedic Surgery,  
Weill Cornell Medical  
College and Chief of the  
Scoliosis Service,  
Hospital for Special  
Surgery

Dr. Oheneba Boachie, USA  
Visiting Professor 2010



Prof K Daniel Riew,  
Mildred B. Simon  
Distinguished Professor  
of Orthopedic Surgery.  
Chief of Cervical Spine  
Surgery, Washington  
University

Prof. K. Daniel Riew, USA  
Visiting Professor 2012



Prof Steve Glassmann,  
Prof of Orthopaedic  
Surgery, University  
of Louisville, USA

Dr. Steve Glassman, USA  
Visiting Professor 2013



Dr Harish Hosalkar,  
Diplomate, American  
Board of Orthopedic  
Surgery, Director, Center  
for Hip Preservation and  
Children's Orthopedics,  
California, USA

Dr. Harish S Hosalkar, USA  
Visiting Professor 2014



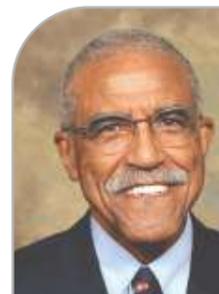
Prof Jeffrey O Anglen,  
Prof, Dep of Orthopaedic  
Surgery,  
Indiana University  
School of Medicine,  
Indianapolis, USA

Dr. Jeffrey O. Anglen, USA  
Visiting Professor 2015



Dr. Wolfgang Klauser  
Adult Reconstruction and  
Foot and Ankle Surgery,  
Deputy Medical Director  
Helios-Endo Klinik  
Hamburg, Germany.  
Head of Foot and Ankle  
Dept and Knee Surgery

Dr. Wolfgang Klauser, Germany  
Visiting Professor 2016



Dr. Alvin Crawford,  
Prof. Emeritus  
Founding director  
Crawford Spine Center  
Cincinnati Children's  
Hospital  
Cincinnati, USA

Dr Alvin Howell Crawford, USA  
Visiting Professor 2018



Dr Hanne Albert,  
Medical Director  
Modickliniken  
Odense, Denmark

Dr Hanne Albert, Denmark  
Visiting Professor 2022



**Japanese Society for Spine Surgery and Related Research (JSSR) - Fellows**



**Dr. Kazuki Fujimoto,**  
(NCGH&M, Kohnodai Hospital, Japan)  
Thank you for great opportunity to my first visit to India. I have a great experience observing wonderful surgery and outpatient clinic.



**Dr. Kazuta Tamashita,**  
(Tokushima University, Japan)  
Thank you for inviting us as JSSR Traveling Fellowship. We are really happy to meet all guys and to see wonderful surgery and outpatient clinic.



**SICOT (International Society of Orthopaedic Surgery and Traumatology) - Fellows**



**Dr. Prabhakaran Jayaprakasan**  
(LCH Hospital, Abu Dhabi)  
I have picked up information that can help my patients, have the awareness of how to approach complicated cases



**Dr. Ndukwu Chibuzo**  
(Lecturer, Nigeria)  
I had the rare privilege of observing and assisting in a wide range of Spine and Arthroplasty cases. The knowledge acquired will impact my practice positively.



**Dr. Chigblo S. Pascal**  
(National Teaching Hospital of Cotonou, Benin)  
My stay is very useful and was very happy to all to learn especially the care of non union fractures, bone loss, bone tumour and great deformity.



**Dr. M. R. Ahmed Nihaj**  
(Fernando Place, Anandpass, Srilanka)  
I did trauma and Arthroscopy. Excellent exposure in trauma. I attended arthroscopy workshop. Must attend workshop. I will come back in future.



**APSS Medtronic Fellowship - Asia Pacific Spine Society**



**Dr. MD. Sarwar Jahan,**  
Dhaka, Bangladesh  
Prof Rajasekaran sir and his spine team is very enthusiastic, hard working and dedicated to innovating spine surgery.



**Dr. Rommel L Tan**  
(Consultant, DS&SC, Philippines)  
Ganga hospital is an ideal learning center. It has a huge number of cases of variety which is good. The work ethics of its people is exemplary.



**AO Foundation**



**Dr. Duggineni Maheshkumar,**  
Andhrapradesh (Aospine Fellowship)  
Overall the working Fellowship is good and world class that of art operating rooms are well maintained.



**Dr. Manash Chandra Sarker,** Bangladesh  
I have learned a lot of operative technique regarding assessment reduction as well as fracture fixation methods. It is a world number one orthopaedic hospital.



**AO Foundation**



**Dr. Lim Liang Hoo,** Malaysia  
As an AOSpine fellow, the experience and teaching was beyond all my expectations. The efficiency of the clinics and OT is something new and inspiring.



**Dr. MD Taimur Rahman**  
(North Dhanmondi, Bangladesh)  
All teachers are cooperative, academic as well. OT environment was good for learning. All staff of this hospital were good, cooperative and helpful.



**Dr. A X Rex Premchand,**  
(Yio Chu Kang Road, Singapore)  
I consider this as an ocean for orthopaedic knowledge. Thanks to the trauma team and special thanks to Dr. SR sir.



**Dr. Anil M Solanki**  
(Shalby Hospital, Ahmedabad )  
The execution in surgical plans with comfort and speed along with perfection are the skills which impressed me.



**Dr. Abdullah Al Mahmud,**  
(Nobodoy Housing, Bangladesh)  
I learned a lot from this medical center which upgrade my knowledge and help my daily practise. Long live Ganga Hospital.



**Dr. Santosh Paudel,**  
(NAMS, NT Centre, Nepal )  
It was like a dream to see the huge volume of cases with different varieties in a short time of one month in spine surgery. The staff and colleagues were eager to help always.



**Dr. Layth Alteeti,**  
(Makassed Hospital, Jerasalem)  
I had the privilege to be at Ganga Hospital for 2 months observing masters doing their work. Really glad and proud to be here. They are truly changing the world.



**Dr. Rajendra Rao Ramalu,** Malaysia,  
It was enjoyable watching and learning. We are impressed with the clinical set up, ability to perform 17 cases (spine) a day and collaborating research into clinical practice which is much lacking these dates.



**Dr. Shah Whaliullah**  
(KGM University, Lucknow)  
It is truly unremarkable experience of my life, one of the best spine centre I have ever visited. I got ample exposure to variety of spinal surgeries.



**Dr. Jwalant Patel,** Ahmedabad  
Prof Rajasekaran he is himself a university of knowledge, wisdom and intellect. There is so much to learn from him in addition to his surgical skills, discipline, simplicity and sincerity. Lots of love and respect.



**Dr. Manoj Phalak,** AIIMS, New Delhi  
Faculty are open to discussion about each and every topic and depth of knowledge and detail for academic as well as surgical procedure is amazing. Zeal for teaching fellows and residents is great.



**Dr. MDS Sasidharan,** Chennai  
Ganga is an ocean of orthopaedic specialty and the finest academic research centre in the Asian subcontinent. Prof Rajasekaran is a teacher par excellence and a great surgeon.



**Bangladesh Orthopaedic Association (BOA) Ganga Fellowship**



**Dr. Khandaker Abu Sayed**  
I had a wonderful and pleasantable experience Fellowship Period. In that time Dr.Sundararajan sir, the man of Arthroscopy had taught me a lot of tips in knee and shoulder arthroscopy.



**Dr. Md. Harun Are Rashid**, Bangladesh  
My observationship at Ganga Hospital, Coimbatore is very dynamic, fruitful and beyond of imagine. I am very much luck enough that I got a chance to observe here.



**Dr. Mohammad Mahabubur Rahman Khan**, Dhaka  
All mentors were highly co-operative, operation theatre staffs here very much co-operative to me.



**Dr. Md. Sofikul Islam**  
I have learnt many new things about arthroplasty as well as arthroscopic surgery. I hope this fellowship programme will be continued for long time.



**Dr. Md Azadur Rahman**, RMC, Hospital Bangladesh  
It is a good experience for me as fellowship training in Ganga Hospital. They have a huge work load, but they are managing nicely.



**ISKSAA Ganga Travelling Fellowship - Fellows (International Society for Knowledge for Surgeons on Arthroscopy and Arthroplasty)**



**Dr. Rohit Malhotra**, Orthomax Bone & Joint Hospital, Panchkula  
It was a pleasure and a blessing to come to Ganga Hospital, Coimbatore and work under the stalwarts of Arthroscopy & Arthroplasty.



**Dr. Shriprakash Jha**, Max Hospital, Shalimarbagh, Delhi  
It is very good experience to work in Ganga Hospital under Dr.SR sir and Dr.Sundarrajan sir.



**Dr. Rahul Prakash** (Mumbai)  
I am 1 month of dedicated spine work in Ganga Hospital is doing pioneer work in all aspect of orthopaedic surgery. Dr. Ajoy Shetty is a gem as surgeon and as person too. He takes extreme care of us as fellows. He taught us fine nuances of spine surgery.



**Dr. Zahir Abbas I Merckant**, (Mumbai)  
Dr.Rajasekaran has created and nurtured an institution that one can only dream of. I have been in serendipity to witness world class work in spine. Ganga hospital is an imminent institute. With world class facilities being provided at affordable rates.



**Indian Orthopaedic Association (IOA)**



**Dr Joydeep Mandal**, West Bengal  
It has been a privilege to work here at Ganga Hospital along with the country's finest surgeons. I have been mesmerised to see such blending of academics and practical knowledge.



**Dr Aalok Shah**, Ahmedabad  
His great confidence in surgeries and clarity of clinical and surgical concepts are outstanding. His efficiency of work and time planning is something which puts him beyond others.



**Dr. Gyan Ranjan**, (Bihar)  
Ganga hospital is an institution which is famous in many countries for the treatment and results. Almost every orthopaedic surgeon in India aspires to come and work in this hospital at least once.



**Dr. Narendran Pushpasekaran** (Cochin)  
It has been a power packed learning expiring for the entire tenure at the prestigious Ganga Hospital & Research Centre. The excellent faculties are pushing the wonders of excellence and standards of orthopaedic care.



**Dr Nitish Bansal**, Punjab  
The management from the point the patient enters this temple to the point of patient leaving – every step is managed so smoothly and there is a system in place for everything.



**Dr Vijay Kumar Loya**, Telengana  
During the whole period, I had the opportunity to scrub with him and observe him. What is most amazing about the centre is the volume of cases, diverse pathologies and a wide gamut of surgical procedures.



**Dr Mozimul Haq Siddiqui**, Karnataka  
I have taken so many positive vibes along with me after a short stay here.



**Dr. Arun Kumar Sharma**, ( Jaipur)  
This is best Institution in India or abroad I have ever visited. The work culture/ high standards of professional excellence. I am deeply indebted to Ganga Hospital for this wonderful experience.



**Dr. Tarun Verma** (Gujarat)  
I had opportunity to observe around 120 cases in 3 weeks, which is a huge number. Dr.Sundararajan Sir has been very kind to me and other fellows.



**Dr B Sajjad Ali**, Dharapuram  
I am truly overwhelmed and graceful for the team of Ganga for which I have learned here. I will never forget this journey and keep working hard and improve myself to become a better orthopaedician and a human being.



**Dr K Kanagasarathy**, Thanjavur  
Gone are those days when orthopaedic surgeons went abroad for advanced training and refining skills. Proud to be at Ganga Hospital where motto is 'We teach the world!'.



**Dr Rakesh Sera Ashray**, Karnataka  
Ganga Hospital is world class orthopaedic centre and helping the young orthopaedic surgeons like me to excel in the field.



**Tamilnadu Orthopaedic Association (TNOA)**



**Dr. Vinoth Kumar G,**  
I was so lucky to have been posted under my senior of Alma mater Dr. Dhanasekara Raja. I thank the team Ganga whole heartedly for this opportunity.



**Dr. T. R. Ashok,** Chennai  
It was a good learning and updating of new ideas and concepts on dealing orthopaedic practice. Defining of thoughts on management its outcome visualised.



**Dr. Srijay Sashaank S,** Chennai  
It was a wonderful experience – associated with a institute like Ganga Hospital. I would express my gratitude to Dr. DD sir for having me here as TNOA-trauma fellow for 2 weeks. It has been a great learning experience in trauma.



**Dr. Naveenkumar K,** Pondicherry  
It was a great experience to be here in Ganga hospital. The spine surgery department was very unique and the case load is tremendous. I thank Dr. S. Rajasekaran, Dr. Ajoy and Dr. Rishi fother wonderful guidelines.



**Dr. V. Vasantharaj,** Dharmapuri  
It was good experience in seeing all those different cases in spine. CT Navigation in spine was different experience.



**Dr. P. Murali,** Thanjavur  
I am very much grateful to Dr. SR Sir, Dr. DD sir, Dr. DSR Sir for giving me this opportunity in my life. Many things I learnt from the department and hospital. Thank you very much for the TNOA



**Dr. S. Prabhakar**  
It is very nice to work in spine department, Ganga Hospital, Coimbatore.



**Dr. Prabha Ram Kumar R,** Coimbatore  
Wonderful experience, Provides a different perspective in Spine Surgeries. Builds up confidence in spine especially in dural tear scenarios. I am very grateful to the teachers who provided excellent tips and tricks.



**Dr. Subhramanya Gandhi,** Chennai  
It has been a power packed learning experience for entire tenure at the prestigious Ganga Hospital and research centre. .It is great learning experience from all the faculty in trauma department.



**Dr. Ram Gautham G,** Madurai  
I had a wonderful opportunity to be at Ganga for two weeks under Dr. DD as the TNOA fellow had a wonderful experience with exposure to a wide variety of complex trauma and excellent teaching by Dr. DD himself.



**Dr. Santhosh,** Hosur  
I should thank everyone in orthopaedic trauma department to get to know, understand my basics and surgical principles of surgery.



**Dr. K. R. Tarun Prashanth,** Chennai  
It's been a privilege to have been at this reputed Institute for two weeks, where patients have been treated at the helm of doctors who are committed only for perfection and are trained herewith the only motto of work life is passion.



**Tamilnadu Orthopaedic Association (TNOA)**



**Dr. V. Arun,** MS (Ortho)  
Govt. Dharmapuri Medical College, Dharmapuri, (Arthroplasty)  
Ganga OT is a Dreamland for every orthopaedician. It is a treasure house of experience.



**Dr K Anandkumar,** Chennai  
TNOA Inland Fellowship in Arthroscopy  
I am sure that these fifteen days of my observership will have a major impact in my orthopaedic career.



**Dr P Parthiban,** Thoothukudi.  
Inspite of his busy schedule, he cared for us and taught us many surgical skills and techniques. I was very much impressed about his managing this big institution and maintaining sterility in operation theatre and wards.



**Dr M Gurumoorthy,** Chidambaram  
It is a great privilege to be here and my dream come true to work under the guidance of Prof SR Sir, It is wonderful to be here and observing all professional surgical skills and knowledge.



**Dr Dinesh Babu,** Karur  
It has been mind blowing to assist cases They taught me pitfalls in spine surgery. I will definitely carry out the things I learnt for my career.



**Dr S Sundar Kangeyan,** Salem  
I had many doubts cleared by all consultants, associate consultants, senior registrars and registrars without any hesitation. It has been a tremendous leap in my learning curve within a short duration.



**Paediatric Orthopaedic Society of India (POSI)**



**Dr Mohammed Jabar Mohiuddin,** Hyderabad.  
I learnt specifically how to manage SCFE, osteoplasty, SSD and also other procedures and trauma. I would definitely recommend future POSI fellow to spend at least three weeks.



**Dr Suresh Chand,** Lucknow.  
It was great to see world class management of paed ortho cases here. I was fortunate to observe complex cases in the OT esp mod. Dunn procedure. The patient volume and variety is huge.



**Dr Ankita Bansal,** Thane, Maharashtra  
I am amazed and awed at the set up and the facilities for the patients, the administration and the helpfulness of the staff here. Best of all, I liked the ethics and the trust sir inspires.



**Dr B Sajjad Ali,** Dharapuram  
I am very happy to be first Dr Johari POSI fellow for rural orthopaedic surgeons. It was a wonderful experience in Pedaitric ortho unit which will improve myself to become a better orthopaedician and a human being.

**Observership / Fellowship 2019-2022**



**Dr. Suman Dhar**, Tripura  
I got many of my concepts cleared and got a variety of cases with learning in each case. Sir teachers is very care something new which is best part of it. Although such a short time is very less to set in all in the thought process.



**Dr. Rohit Malhotra**, Panchkula  
It was a pleasure and a blessing to come to Ganga Hospital, Coimbatore and work under the stalwarts of Arthroscopy & Arthroplasty by observing them and learning from them.



**Dr. Anand Shankar**, Bihar.  
It was an unimaginable experience seeing and learning world class technology and operative techniques. The way the Ganga Hospital is managing each and every aspect of patient is unemarkabile.



**Dr. Rishabh Kumar**, (Patna)  
It is a dream come true to spend one month in the best hospital of India. Learned a lot under the guidance of Dr. DD sir. Complex surgeries which is done here is at another level. Dedication of trauma team was fantastic.



**Dr. M. Sathish** (Karur)  
When we are in Ganga, learning goes effectless and as an integral part of everyday routine, happy to be a part of it for a short period.



**Dr. Priti Ranjan Sinha** (Uttarpradesh)  
It was an extremely delightful, full of learning, knowing many things which was unaware of, knowing the correct approach to surgery and overall management.



**Dr. Shriprakash Jha** ( Delhi )  
Number of cases per OT is very good in number. Sundar sir helped me lot. Explaining the procedure during intra operative and tricks of particular surgery. Infrastructure of Ganga Hospital OT is well designed.



**Dr Arshad G. Siddiqui**, Himachal Pradesh  
It was a wholesome experience for me active interactions with all consultants and observing the work closely. Ganga Hospital is regarded as a bench mark in its work in the field of spine & I will carry the valuable insight I gained here.



**Dr Neville Jacob**, UK  
I have never experienced a hospital in which the volume of cases has been so high. I have been amazed at the incredible work ethic and culture of excellence that is instilled in each doctor, particularly by Dr DD sir and Dr Devendra sir while in trauma.



**Dr. Rafael Portela**, Portugal,  
I have gained immense knowledge, learned all the advance surgical techniques and skills that are required to become best in the profession. I'm great ful to all the people who made this possible.



**Dr. R. Neelakannan**, Salem  
It is a great privilege to be here at Ganga Hospital, under the guidance of Prof. S. Rajasekaran sir. Had wonderful experience in spine surgery for the past 15 days gained confidence in many techniques.



**Dr. Tushar Bhure**, Nagpur  
It was a privilege to be here for the spine microsurgery training. I am short of words. Coming to Ganga Hospital is like going to Tirupati Temple. It is a Temple of Learning.

**Observership / Fellowship 2019-2022**



**Dr K Pratheeban**, Tiruvallur  
The infrastructure that Ganga Hospital has, make no one tired to work. Finally, I have to thank Prof Rajasekaran for his down-to-earth humble nature towards fellows.



**Dr Ullas Jayaraju**, UK  
Has been a great mentor and I learnt a lot of things under his wing. I recognise Dr Sundararajan, Dr Dhanasekara Raja, Dr Rajkumar, Dr Devendra and Dr Hari Venkatramani as great teachers.



**Dr Gajendra Prabhakar Pawal**, Maharashtra.  
Dr Ajoy Shetty for giving me the opportunity to be a part of Ganga Hospital. Ideal learning centre. Feeling proud and honoured to be a part of the institute at some point in my life. You all are great teachers. Thanks for everything.



**Dr Alok Jain**, Sagar, Madhya Pradesh  
My experience at Ganga Hospital was very fruitful and full of learning. Dr S Rajasekaran sir and Dr Ajoy Sir helped and guided through all surgeries which I did not experience before. Ganga Hospital opened a whole new aspect of spine surgery for me. I am truly obliged by the knowledge I have gained here.



**Dr. Anil Kumar**, Kerala  
This was a great experience. I take this opportunity to thank Dr. Rajasekharan, Dr.Ajoy Shetty and all staff of Ganga Hospital team for sharing your knowledge and experience with us.



**Dr. Manish Kumar**, Patna  
It was a very nice experience. Wanted to continue till the completion of the course but due to corona virus problem in the country, we have decided to learn at present.



**Dr. Sahil Sanghavi**, Pune  
Every great institution is the lengthened shadow of a single man. Ganga Hospital is a Mecca of Orthopaedics and the most prestigious institute of the country and has put India on the world map.



**Dr. Janki Sharan Bhadani**, Patna  
My fellowship in Arthroplasty is really very fruitful. All the faculty and o-fellows are really very nice and we learnt a lot and will come back again.



**Dr Rajeev Sharma**, Delhi  
Highly skilled and hard working but simple egoless team. High volume spine centre of international standards doing excellent ethical work and research.



**Dr Chandan Kumar Panda**  
It gives me a pleasure to learn from Ganga Hospital. I am thankful and grateful to Dr S R Sundararajan sir who taught me most of the things in arthroscopy in this short period.

# Corporate Social Responsibilities



1166 Spinal cord injury patients rehabilitated with a cost subsidy of Rs. 6.9 crores

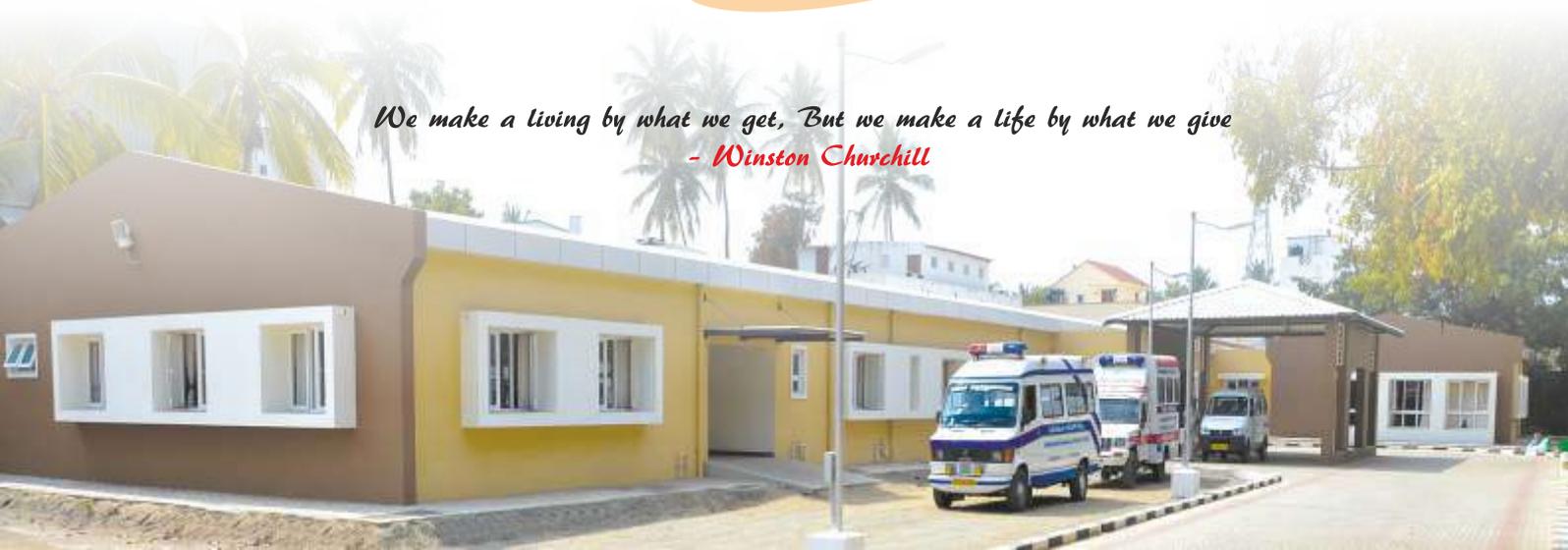
Ganga & GKD Charity Trust Corporate Social Responsibility Project - Rs. 13,00,080/-

Ganga - KVB Corporate Social Responsibility, Project Rs. 1,29,50,500



Inauguration on 03-11-2014  
**Pujyasri Dayananda Saraswati Swamiji**, lighting the lamp during the inauguration of Ganga Spine Injury Rehabilitation Centre

*We make a living by what we get, But we make a life by what we give*  
- Winston Churchill





## Ganga Spine Injury and Rehabilitation Centre



Ganga Spine Injury and Rehabilitation Centre is a corporate social initiative by the Ganga Hospital, to provide state of the art rehabilitation services to spinal cord injured patients at an affordable cost. The centre has 33 beds with modern infrastructure for physiotherapy services with trained personnel for physiotherapy, occupational training, vocational service and medical care. The rehabilitation services aim to provide training in assisted walking, independent transfers to the wheel chair, vocational training, occupational support, psychological counselling, urological care, diet advice and social support services.

The Vocational rehabilitation team at Ganga Hospital provides free vocational training to both the beneficiary as well their family members. The skills provided include computer skills, motor winding, Worli art, handicrafts, tailoring, flower bouquet making etc. This training is given to make them financially independent after the rehabilitation is complete. Enabling the family members with skills ensures sustainability of the training thus equipping them to re-join the community and perform most professional tasks.

### Facilities

**33 Inpatient Capacity**

**3 Private Rooms**

**3 Semi Private Rooms**

**2 General Wards**

Free Vocational Training Units to learn tailoring, embroidery and umbrella making are available to in - patients and their caretakers.

Indoor Therapy area encompassing 5000 sq. ft of imported physiotherapy equipments for muscle strengthening, enhancing mobility, balancing and learning daily activities.

Outdoor Wheelchair training area allows patients to manoeuvre different terrains and levels to adapt easily to moving around in public areas.

Recreation Space (for indoor and outdoor games with a specially designed basket ball court).

### WHAT GSIRC OFFERS?

- Physiotherapy
- Occupational Therapy
- Vocational Training
- Counselling & Teaching Sessions
- Social Welfare Programs
- Wheel Chair Assessment & Training
- Orthotics and prosthetics
- Urology service
- Nursing specialists
- Community Based Rehabilitation
- Recreational Therapy
- Hydrotherapy Pool
- Sports Training

Rehabilitation (including physiotherapy, occupational therapy and wheel chair) worth many lakhs of rupees is provided at a highly subsidised cost or completely free by generous donations from Ganga Orthopaedic Research & Education Foundation and benevolent donors.

This centre has been generously supported by  
**Four Global Grants Project**  
of Rotary International



**Rotary Club of  
Coimbatore Central**

Global Grant No - 1744399

Global Grant No - 2121757



**Rotary Club of  
Coimbatore Saicity**

Global Grant No - 1864494

Global Grant No - GG 2351511

SASTRA



## Corporate Social Responsibilities

### Wheelchair rally – On World Disability Day

GSIRC observed the World Disability day with a wheelchair rally which was held on 03.12.2016. More than 50 patients participated in the rally. The wheelchair rally was flagged off by Ms.Ramya Bharathi IPS Superintendent of police for Coimbatore. The event also had a special address by Prof. Jayanthasri Balakrishnan for all the victims of spinal cord injury.



### Annual Rehabilitation meet 2019 & 2022

Ganga Spine injury rehabilitation centre organized an annual meeting in 2019 and 2022 for victims of spinal cord injury. The participants included patients previously treated at Ganga Hospital and paraplegics and quadriplegics residing in and around Coimbatore. This meeting had annual free consultation with Spine surgeons, Urologist and Plastic surgeons for assessment of neurological recovery, bladder function and any complications relating to pressure sores. The participants also had free annual ultrasound of the abdomen done. There were interactive lectures organized with rehabilitation nurses and peer counseling session with other participants.



The different stages of rehabilitation involves supporting the patients psychologically and emotionally. This strengthens them mentally and also helps them to join the mainstream society more easily without inhibition. Social activities and vocational activities help them to restarting earning.

### SCI Statistics for 2018 - 2022

	2018	2019	2020	2021	2022
<b>Total Number</b>	<b>283</b>	<b>214</b>	<b>86</b>	<b>153</b>	<b>184</b>
<b>Traumatic spine injury</b>	<b>253</b>	<b>189</b>	<b>73</b>	<b>138</b>	<b>167</b>
<b>Non traumatic</b>	<b>30</b>	<b>25</b>	<b>13</b>	<b>15</b>	<b>17</b>

### Stroke & Head Injury Rehabilitation Unit

The facility is situated in the heart of the city in a wide space of 2.5 acres with a built up area of 20000 sf for rehabilitative purposes. Many sophisticated machines worth more than RS. 3 Crores which are present only in advanced centres are equipped here.

A unique hydrotherapy pool has also been established which will hasten the rehabilitation and provide the patients a unique opportunity which is present only in very advanced centres. We also have in house orthotic centre which help the spine injured persons to get assistive devices like calibres, walker. The centre uniquely has a basketball court for wheel chair sports and has also hosted the State Wheel Chair Basketball tournament twice.



### Vocational Training center

Ganga spine injury center has always aimed at a comprehensive rehabilitation program for patients with spinal cord injury. Rehabilitation services were extended beyond physical rehabilitation with the inauguration of the vocational training center by Sindhanai kavnagar Dr. Kavidasan.Ph,D, Director Roots Industries, Coimbatore.

The vocational centre was built with the facility of teaching and training of paraplegics on the basic functioning of a printing press. The aim was to train paraplegics in this vocation so that they may be able to secure a vocational rehabilitation following the spinal cord injury.



# Project 'Tree of life'



Coimbatore district Collector Thiru. Dr. Sameeran, Dr S Rajasekaran, Dr Rajasabapathy & Dr Venkatdass visited the Swasam ward at Ganga Hospital and interacted with all the children.

**Meaningful change in the lives of many children with Deformity and Disability.**

## Project 'Tree of life'

Tree of life is a project launched by Ganga Hospital, Coimbatore for providing wholesome care for children with deformities and disability is completely free of cost.

The patients were identified through camps conducted at various Government schools in and around Coimbatore district. Twenty children with various deformities and disabilities were admitted in Ganga Hospital on 17th July.

The children were evaluated in detail by expert surgeons trained in Paediatric Orthopaedics and all of them underwent the necessary surgical procedures done by a team of surgeons. These children had various problems like cerebral palsy, hereditary sensorimotor neuropathy, arthrogyrosis, and post-traumatic deformities and surgeries done included soft-tissue re-balancing, tendon transfer and complex osteotomies.

The total cost of surgical treatment was around 13 lakhs which was done completely free of charge. The Coimbatore district Collector Thiru. Dr. Sameeran visited the Swasam ward at Ganga Hospital and interacted with all the children who were operated. 'Tree of Life' is a project which aims to provide wholesome care to these children from pre-operative evaluation to post-operative rehabilitation, orthotic support and follow-up interventions. We believe that the tree of life will bloom colourfully and bring a meaningful change in the lives of many children with deformity and disability.





Stronger Bones for  
a Stronger Nation

# Bone & Joint Day Activity



## National Bone & Joint Day, August 04

Dr S Rajasekaran, when he was the President of Indian Orthopaedic Association (IOA) in 2012, said that with the ageing population and increasing accidents, the health problems related to bones and joints have also amplified. On his request, on behalf of IOA, the Government has agreed to declare August 4 as National Bone & Joint Day.

Dr Rajasekaran said that observing such a day has become essential, especially in circumstances where the problems like arthritis, osteoporosis among the ageing population are becoming a major cause for disability. Dr Rajasekaran said that the purpose of observing this day was to encourage people to give back to society. As part of the program, he said that every IOA member should conduct at least one surgery free of charge before 4th August every year.

On the occasion of the bone and joint day, 4 August the road safety awareness program was conducted for the general public of Coimbatore by displaying placards on wearing helmets, obeying traffic signals & traffic rules, wearing a seatbelt and avoiding over-speeding. The demonstration was done in the following locations - NSR Road Signal, Alagesan Road Signal, Avinashilingam college Signal and Sivananda colony road signal. Distribution of pamphlets on road safety published by the Indian Orthopaedic Association (IOA) and distribution of sweets to the public who follow traffic rules in all the locations.

### Department of Orthopaedic Surgery - Ganga Hospital Conducted following Bone & Joint Day activities - 3rd and 4th August, 2022

- 1) Road Safety Awareness Program for General Public
- 2) Basic Life Support (BLS) Training
- 3) Bone Mineral Density (BMD) screening for osteoporosis
- 4) Road safety awareness MEME show
- 5) Free Orthopaedic surgeries





Honourable Chief Minister Thiru M. K. Stalin Inaugurated the KUTTY COPS on Project 12-10-2022 in Secretariat, Chennai & Codissia, Coimbatore in the presence of Tamil Nadu electricity minister V. Senthil Balaji, Prof S Rajasekaran, Chairman Uyir Mr. Sanjay Jayavarthanavelu, IAS officers and UYIR trustee members.

### About Uyir

UYIR is the result of culmination of corporate industries, service Industries and likeminded people of Coimbatore for creating a safe and better quality of life for the citizens of Coimbatore.

### What Is Uyir?

“Uyir” is a Non-Governmental Organization, Registered under Trust Act on 7th Day of March’2018, with the mission of making Coimbatore an accident free Society and formed by the Industrialists and well known like-minded people of Coimbatore.

### What we do?

Uyir initiates the following programs to meet its core objectives:

- To undertake any and all type of activities that will promote road safety amongst the citizens of Coimbatore specifically and whole of India in the course of time.
- To promote and involve the culture of road safety amongst students studying in all educational Institutions and make them young and active ambassadors of road safety
- To spearhead a people’s movement for Road Safety in the whole country where every citizen will be a champion for preventing road accident deaths and disability.
- To create awareness amongst riders and pedestrians so that roads will no longer be killing fields
- To work with and assist Government departments especially the Police and road transport departments to achieve these goals
- To enrol and work with like-minded organizations in this laudable project.

### UYIR CONSOLIDATED REPORT

August 2022 - April 2023

SN	Particulars	Nos
1.	Total No. of Colleges Registered (UYIR Club)	32
2.	Total No. of Activities undertaken	667
3.	Total No. of Hours Volunteered	
	a. On Campus / Off Campus Activities	
	b. Survey Visits to Schools	
	c. Helmet Drive (25 locations / 7 events)	34308
	d. Survey Data Entry in Colleges	
	e. Diwali Traffic Regulation	
	f. Mini Marathon	
	g. SAFETYTHON – Road Safety Hackathon	
4.	Total No. of Students involved / benefitted	7789



## Corporate Social Responsibilities

### Kutty Cop - School

'Kutty Cops', a program targeting school children of grade 3 to 8 which will aim to inculcate the importance of road safety awareness in young, impressionable minds. This program will be spread out over a 12-hour period during the academic year. Uyir will provide an orientation for the teachers and implementation plan along with materials and worksheets for use.



### Uyir Club - College

'Uyir Club' will be a dynamic group of young volunteers from various colleges in the city of Coimbatore who will reach out to the public to spread awareness on road safety. As the youth brigade of the city, the students, through myriad activities such as marathons and drives, will help render the city of Coimbatore a 'zero-accident city' and inspire commuters from other cities of Tamil Nadu to conduct themselves more responsibly on the road.

### Uyir Club - Citizen

**The Following programmes activities been carried out after the formal launch,**

- On Road Awareness campaign at Avinashi Road and MTP Road- College Vertical
- Mini Marathon on Road Safety- Health Care vertical
- Installation and Activation of electro and mechanical items ( NPR Cameras , CCTV, Barricades, Markings etc.)- Worth of Rs.4.5 Crores @ 10 main Roads and 40 Junctions – Industry Vertical
- The salient features of these Cameras, Capturing and Recognition of number plates, Night vision light, Capturing the road rules violators and Controlling the speed also.

### 'Kutty Cops' engage parents, family members in road safety awareness

The school level drawing and slogan writing competitions were held for students of 40 schools in Coimbatore who are part of the 'Kutty Cops' from November 12th to 21st 2019. Around 800 drawing and posters carrying slogans on road safety were displayed at the auditorium which were selected from a school-level competition held recently.

The competitions were held for two categories, classes III to V and classes VI to VIII, with Coimbatore and road safety as the theme.

Five best posters and drawings from each category found entry to the exhibition, adding to a total of around 800 selected works. More than 1200 parents and family members came to witness the creative works of students.

Police Commissioner Mr. Sumit Sharan distributed the prizes and Dr. Claude Martin jr, Managing Director of AO Alliance Switzerland, lauded the 'Kutty Cops' initiative. Students also performed dance, mimes and skits at the exhibitions for visitors.





*Trainees in the past ten years . . .*

To transfer the knowledge and experience of the unit, the spine department of Ganga Hospital in collaboration with Carl Zeiss started a unique microsurgical training centre equipped with a permanent wet lab utilizing the latest Zeiss operating microscopes and high quality surgical instruments.

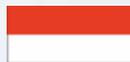
The purpose of the course is to establish and strengthen the foundation of microsurgical skills in spine surgery. The course has two modules. In the clinical training module, the trainee spends two days in the operating theatre assisting and observing spinal microsurgeries. In the lab module, the trainee is given hands-on training in the wet lab. The course is designed to benefit practising orthopaedic surgeons, spine surgeons and neurosurgeons.

**International Trainees**



**Malaysia**

Dr Lim Phaik Gan,  
Dr Abdul Halim Yusof  
Dr Khoo Eng Hooi  
Dr Ahmed Tajuddin Abdullah  
Dr Ramachandran Arumugham



**Indonesia**

Dr. Benny Lay  
Dr. Igin Ginting  
Dr Harjanto Effendi



**Bangladesh**

Dr Abu Baker,  
Dr. Shahid Akon



**Nigeria**

Dr Akinniyi Oluwatoba Taiwo  
Dr Shedul Lohman



**Kenya**

Dr David Kilonzo



**Oman**

Dr Kishore Kumar M



**Philippines**

Dr Paul M. Atienza



**Singapore**

Dr Shree Kumar Dinesh



**Srilanka**

Dr. Devaka Rathnapala,  
Dr. Kandeepan Kanagarathna  
Dr. Priyance Bandujeewa Piyasena



**Iraq**

Dr Ali Saadun Al Khaykany  
Dr. Hazim Moojid Abbas  
Dr. Ardham Jamal Ahmed



**Nepal**

Dr. Pramod Baral  
Dr. Bigyan Bhandari



**Egypt**

Dr Hatem Handy,  
Dr. Muhammad Salman Zakzou



**Netherlands**

Dr Coen Jaspers,



**UK**

Dr Anukul Kumar Deb Goswami,



**Dubai**

Dr Tushar Dholakia



**Germany**

Dr. Nazeeh Abu-Dayyah



## **National Trainees**

Dr Abdul Jaleel T K, Kerala  
Dr Ajay Krishnan, Surat  
Dr Akshay Jain, Indore  
Dr Antony Joseph Thoppil, Kerala  
Dr Arul Durai Arasu, Dindigul  
Dr Ashok D, Trivandrum  
Dr Ashok M Ghodke, Mumbai  
Dr B V R N Varma, Vizag  
Dr Bangari Swamy, Karimnagar  
Dr Bikram Kar, Cuttack, Orissa  
Dr Chandrappa M, Bangalore  
Dr Gautam Prasad, Mumbai  
Dr Gowrishankar Swamy LG, Bangalore  
Dr I Satish Raju, Vizag  
Dr Jay Deep Ghosh, Kolkatta  
Dr Jim F Vellara, Thrissur  
Dr K Sambasiva Rao, Tenali  
Dr K. Shanmugasundaram, Pollachi  
Dr Karthikeyan R, Coimbatore  
Dr M Narayana Reddy, Chennai  
Dr Madan Temker D, Bangalore  
Dr Mallikarjuna Reddy, Karnataka  
Dr Mathew P Daniel, Kerala  
Dr Muthuraj, Nagercoil  
Dr N Dheen Mohamed Ismail, Chennai  
Dr Natarajan S, Erode  
Dr Natesh J, Bangalore  
Dr P Gnanaprakash, Coimbatore  
Dr P P Sunil, Thrissur  
Dr Pankaj G Gujar, Maharashtra  
Dr Pankaj Kandwal, Mumbai  
Dr Rahul Singh, Saharanpur  
Dr Rajeev Naik, Bangalore  
Dr Rajendra U Mehta, Rajkot  
Dr Rajesh Khanna G, Chennai  
Dr Rajiv Shah, Vadodara  
Dr Ramanand Mishra, Gorakhpur  
Dr Rashid A S, Kerala  
Dr Ravi K, Kerala  
Dr Renjit Kumar J, Kerala  
Dr S Jagadeesh Babu, Hyderabad  
Dr Sachithanandam V, Erode  
Dr Saheel Maajid, J & K  
Dr Sandeep Surana, Ahmednagar  
Dr Saurabh Chaudhary, Salem

Dr Shameer Ali.T.P, Kerala  
Dr Shanmugasundaram P, Chennai  
Dr Sudheer U, Kerala  
Dr Sundararajan N D, Gopi  
Dr Sunil Kumar H, Bangalore  
Dr Thiraviam T, Nagercoil  
Dr Tushar J Deore, Pune  
Dr V.Surya Prakash Rao, Hyderabad  
Dr Venugopal S, Bangalore  
Dr Veushj Sharma, Punjab  
Dr Vignesh Jayabalan S, Chennai  
Dr Vishal Prakash Thakur, Mumbai  
Dr Dangeti Ram Kishore, Rajahmundry  
Dr Shantanu Anil Gunjotikar, Solapur  
Dr Prabhakaran Jayaprakasan, Thrissur  
Dr Chetan V Mudaliar, Bilaspur  
Dr Hitesh L Kukadya, Surat  
Dr V Ravi, Chennai  
Dr C Ranganath, Bangalore  
Dr Saurabh Kapoor, Delhi  
Dr Palavali Maheswara Reddy,  
Dr Deepu Sebastian, Kannur  
Dr A Venkateshwar Rao, Secunderabad  
Dr Ajay V Randive, Mumbai  
Dr Bharath Kumar R, Trichy  
Dr Ambarish Mathesul, Pune  
Dr. Ashish Tomar, Haryana  
Dr. Backiaraj Devaraj, Thanjavur  
Dr. Ajaykumar Ajanavi, Trivandrum  
Dr. Parthiban K.  
Dr. Suhahish Roy, Kolkatta  
Dr. Anindya Basu, Kolkatta  
Dr. Srikanth Nara, Hyderabad  
Dr. Daya Thirumala R, Vishakapatnam  
Dr. Pawan Kumar Sharma, Rajasthan  
Dr. Gaurav Sawhney, Chandigarh  
Dr. Prakash Sitoula, Nepal  
Dr. Ranjith Shaw, West Bengal  
Dr. Moses Agunda, Nigeria  
Dr. Subodh Borle, Burhanpur  
Dr. Amarendranath Roy, Kolkatta  
Dr. Venkatesan P, Thanjavur  
Dr. Suresh Kumar M, Pondicherry  
Dr. Suresh Cheekatla, Hyderabad

Dr. Navneet Kumar, Kolkatta  
Dr. Md.Mohtashemul Haque, Bihar  
Dr. Siddharth Sanjay Shah, Mumbai  
Dr. Raghuraj Kundangar, Manipal  
Dr. Ratanlal Rajesh Agarwal, Chennai  
Dr. S. Karthikeyan, Palani  
Dr. Sareesh Kumar, Kottayam  
Dr. Mahendra Kolikonda, Telengana  
Dr. Ramkinkar Jha, Gurgaon  
Dr. Malayanathan, Pondicherry  
Dr. Raminder Singh, Patiala  
Dr. Naved Farid, Mumbai  
Dr. Ashwinkumar Khandge, Pune  
Dr. Nitin Ashok Bhalerao, Maharashtra  
Dr. Rajesh Bahadur Singh, Varanasi  
Dr. Vaibhao Narayan Gorde, Maharashtra  
Dr. Vijay Kagane, Maharashtra  
Dr. Tushar Ubale, Chembur  
Dr. Bhukya Gopilal, Telengana  
Dr. Deepak Datrang, Ahmednagar  
Dr. Deepak Singh, Rajasthan  
Dr. Pankaj Arora, Haryana  
Dr. Vivek Vincent, Thrissur  
Dr. V.I.Simon, Thrissur  
Dr. Karthik Malepathi, Bangalore  
Dr. M.Manoj Deepak, Theni  
Dr. Harshad G Argekar, Mumbai  
Dr. Abhijit Kale, Maharashtra  
Dr. Nilay Chhastia, Surat  
Dr. Mohammed Ashraf Pasha, Andhrapradesh  
Dr. Ameer Theruvath, Kerala  
Dr. Rajesh, Vishakapatnam  
Dr. Sudeep Kumar, Madurai  
Dr. Vinoth T, Madurai  
Dr. Kulbhushan Kamboj, Delhi  
Dr. Mantu Jain, Bhubaneswar  
Dr. Vijay Anand, Maraimalainagar  
Dr. Birendra Kumar, Jharkhand  
Dr. Shivakumar H.C., Shimoga  
Dr. Sekar, Tirunelveli  
Dr. Chanda Srinivasa Rao, Telangana  
Dr. Srinivas, Karimnagar  
Dr. Moulidharan, Hosur  
Dr. Pramod Sudarshan, Bangalore



# Ganga Hospital Tissue Bank



There is a huge demand for bone graft at our hospital due to the enormous number of polytrauma and tumor patients who need complex reconstructive procedures. The Tissue Bank at the Department of Orthopaedics, Ganga Hospital was launched in 2008. Located within the hospital premises, it is a self-funded, non-profit tissue bank aimed at providing high class tissue banking services. It is only the third tissue bank in India to use Gamma irradiation as a method of sterilization. The bank follows International Atomic Energy Agency (IAEA) standards followed by other tissue banks in the world.

The bank is currently using well processed and gamma irradiated cortico cancellous bone allografts from tibial slices and femoral heads, long bones from amputated stumps in various clinical conditions like comminuted fractures and non-unions with bone loss of both upper & lower limbs, revision joint replacement surgeries, tumor and spinal fusion surgeries. The grafts are screened for HIV, HCV, HBV and syphilis to eliminate risk of disease transmission.

Dr. P. Dhanasekara Raja, Tissue Bank manager has received the Degree of Diploma in Tissue banking from National University of Singapore. Dr. Devendra is the Scientific Officer in charge of preparation, processing, storage and transportation of the allografts. He has received training in the Tata Memorial Bone Bank in Mumbai and has also undergone training in the National University, Singapore.

- Freeze dried, Gamma irradiated Allografts (Femoral heads, Tibial slices, Cancellous Chips)
- Frozen, Gamma irradiated Allografts (Long bone structural grafts)

Allografts are prepared according to the international standards followed by Tissue bank, TATA Memorial Hospital, Mumbai

- Sterile procurement of bone
- Pasteurization
- Ultrasonication Therapy
- Alcohol therapy
- Lyophilization
- Sterile Packing
- Gamma irradiation
- Storage at – 800 / room Temperature.

## Total no of Allografts utilized from 2018 to 2022

Year	2018	2019	2020	2021	2022
Femoral Head	123	105	60	167	356
Tibial Slices	309	291	98	231	200
Cervical	112	55	38	68	56
Fibula	37	26	7	18	30
Tibia	11	3	4	10	24
Distal Femur	4	3	-	2	3
Metatarsal	15	9	11	11	3
Ulna	1	1	1	-	9
Radius	3	-	2	-	5
Spine	16	12	10	5	6
<b>Total</b>	<b>631</b>	<b>504</b>	<b>231</b>	<b>512</b>	<b>692</b>



Dr. P. Dhanasekara Raja receiving the Diploma in Tissue Banking Certificate from Prof Aziz Nather, Director of Tissue Bank, National University of Singapore.



Dr. A. Devendra receiving the Tissue Banking Certificate from Prof Aziz Nather Director of Tissue Bank, National University of Singapore.



This patient, who suffered a 13cm bone loss in a traumatic supracondylar fracture of the femur was treated successfully with Gamma irradiated Structural Allograft



Processed Femoral head



Frozen long bones

*Major Courses & Conferences 2019-2022*

*Spreading the light of knowledge...*



## Major Courses & Conferences 2019-2022

The unit is very vibrant in organizing academic activities and conducts many courses regularly in orthopaedics, anaesthesiology and radiology. The scientific content of these meetings are meticulously planned with eminent International and National speakers along with hands-on workshops. As a result, these meetings have very high standards on par with International and national conferences and attracts delegates from not only all over the country, but also from neighboring countries. All the residents and fellows in training in various departments are registered for these courses by default and hence benefit immensely from these meetings.

The sixth floor of the hospital has a dedicated area of about 20,000 square feet which is exclusively used for conducting conferences and workshops. The entire area is air-conditioned and there are three Halls which can accommodate about 1000 delegates. The operating rooms are wired to the auditorium which facilitates seamless live transmission of surgeries from the operating room to all the halls.

<b>Ganga Operative Trauma Course 2022</b>	-	<b>822 Delegates</b>
<b>APSS Operative Course 2022</b>	-	<b>456 Delegates</b>
<b>Orthopedic Trauma Training Society 2022</b>	-	<b>320 Delegates</b>
<b>Paediatric Orthopaedic Society of India 2020</b>	-	<b>382 Delegates</b>
<b>Ganga Anaesthesia Refresher Course 2022</b>	-	<b>512 Delegates</b>
<b>Ganga Anaesthesia Refresher Course 2020</b>	-	<b>472 Delegates</b>
<b>Ganga Ortho Physio Course 2021</b>	-	<b>289 Delegates</b>
<b>GANGA Operative Spine Courses 2019</b>	-	<b>437 Delegates</b>
<b>Ganga Operative Arthroplasty Courses 2019</b>	-	<b>871 Delegates</b>
<b>Ganga Operative Arthroscopy Courses 2019</b>	-	<b>629 Delegates</b>



Workshop - 1



Workshop - 2



Hall - A Live Surgery



Hall - C Live Surgery



## GANGA - Operative Spine Courses 2019



24th to 26th, May, 2019  
International Faculty - 4  
National Faculty - 16  
Delegate - 437

The Ganga Operative Spine Course is held once in two years and is globally popular for its specific focus on live demonstration of spine surgeries, ranging from the simple to the most complex. Experts in the field share their wealth of experience and practical skills with the delegates, taking them through the various steps of surgery in detail. The Course thus offers the unique possibility for the delegates to not only witness the surgical procedures live but also to interact with the expert and clarify their doubts.





## Ganga Operative Arthroplasty Courses 2019



July, 26th to 28th, 2019  
International Faculty - 4  
National Faculty - 15  
Delegate - 871

The Ganga Operative Arthroplasty Course is held every alternate year focussing on recent advances and newer techniques in the field of Arthroplasty. International and National experts are invited to deliver lectures and demonstrate surgical procedures. The course is very popular among Arthroplasty enthusiasts as it provides a good opportunity to learn the practical tips & tricks. The programme and cases are planned in way to include the entire spectrum of arthroplasty surgeries right from the basic straight forward joint replacement surgeries to arthroplasty in complex deformities and complex revision procedures.



## Major Courses & Conferences 2019-2022



### Ganga Operative Arthroscopy Courses 2019



22nd – 24th March, 2019  
International Faculty - 4  
National Faculty - 31  
Delegate - 629

The Ganga Operative Arthroscopy Course is held every alternate year focussing on recent advances and newer techniques in the field of Arthroscopy and Sports Medicine. International and National experts are invited to deliver lectures and demonstrate surgical procedures.

The course is very popular among arthroscopy enthusiasts as it provides a good opportunity to learn the practical tips & tricks. As a part of this event, a rehabilitation course is conducted exclusively for the physiotherapists. This attracts a lot of sports therapists to learn the current trends in treating sports injuries and also the recent recommendations for rehabilitating the sports personnel with injuries.



## Ganga Operative Trauma Courses 2022

The Ganga Operative Trauma Course which is held every alternate year is one of the most popular courses in this part of the world. The demand for this course is so high that the registrations usually gets filled up in 6 month before the course dates. The highlight of this course is the live surgical demonstrations of trauma surgeries starting from very simple to very complex peri-articular fractures. This provides opportunity for learning right from the orthopaedic resident to any practising orthopaedic surgeon in any phase of his career. The interactive case discussions of complex and failed trauma is yet another attraction of this course which again provides all the delegates to learn from others mistakes.



### Ganga Operative Trauma Course 2022

July 1 to 3, 2022.  
International Faculty - 2,  
National Faculty - 19,  
Delegate - 856



### OTTSCON 2022 (Orthopaedic Trauma Training Society)

24th & 25th September 2022  
International Faculty - 5,  
National Faculty - 13,  
Delegate - 367



## Major Courses & Conferences 2019-2022



### Clinical Radiology & Musculoskeletal Ultrasound for Orthopaedic Surgeons



August 09 to 11, 2019  
International Faculty - 15  
National Faculty - 19,  
Delegate - 212

MUSK 2019 is a conference on skeletal radiology in musculoskeletal ultrasound for orthopaedic surgeons which was conducted from 9-11 August 2019. This was a unique meeting catering to radiologists and orthopaedic surgeons emphasising the need for collaboration between these two specialties. We had eminent international and national faculty members with hands-on workshop of ultrasound guided procedures. The conference also emphasised the need for radiologists to be a clinician and the need for more clinical radiologists. The meeting was well attended by around 240 delegates from various parts of the country.





## 26th Annual Conference of the Paediatric Orthopaedic Society of India



The Ganga Paediatric Orthopaedic Symposium 2020 was held from January 9-12, 2020. The conference theme was “Challenges in 2020” which was interesting for each one of us, to share the challenges and look at the possibilities to navigate through the future. We had eminent International and National faculties who shared their wealth of experience and discussed the various challenges faced in our day-to-day practice of paediatric orthopaedics.

January 09 to 12, 2020  
International Faculty - 15  
National Faculty - 19  
Delegate - 382



## Major Courses & Conferences 2019-2022



### Ganga Anaesthesia Refresher Courses

Ganga Anaesthesia Refresher Course. The theme of this course is Perioperative Care. We are earnestly working hard to present the most important and interesting scientific updates on the Perioperative care of our patients. This course would also add certain very valuable inputs to our thoughts, that would enrich us in communication skills, leadership, health and wealth management. We shall strive hard to give a rich blend of academics and life skills, with the aim to make an Anaesthesiologist a complete person. A galaxy of National and International experts would share their thoughts and experience with us.



#### **Ganga Anaesthesia Refresher Course 2023**

16th March to 19th March 2023. Ganga Hospital  
Faculty - 5, Delegate - 272



#### **Ganga Anaesthesia Refresher Course 2022**

5th, 6th, 7th & 8th May 2022. Ganga Hospital  
Faculty - 5, Delegate - 369



#### **Ganga Anaesthesia Refresher Course 2020**

May 7th to 10th 2020. Ganga Hospital  
Faculty - 5, Delegate - 300



# Department of Physiotherapy

Our team of physiotherapists are experts in developing, maintaining and restoring movement and functional ability to maximise quality of life. The department offers Musculoskeletal Rehabilitation, Spinal Rehabilitation, Sports Injury Rehabilitation, Accident and Emergency Care, Pain Management, Arthritis Care, Neuro Surgery Rehabilitation, Hand And Micro Suregery Rehabilitation, Burns Management and Foot Care Service. The Team provides assessment and treatment for individual's needs with unique treatment plan that uses a variety of treatment techniques, which includes Exercise, Manual Therapy, Electrotherapy unit equipped with latest Hi-tech Equipments, Education And Advice. Also, the other services include Intensive Respiratory Care, Pulmonary Rehabilitation, Ergonomics Consultation, Lymphoedema Therapy, and Vestibular Rehabilitation.



Our team is an integral part of the clinical body and forms a part of the support team for the orthopedic consultants Which enables us to use the latest research and evidence based methods of treatment in clinical practice. Our therapists have regular space to discuss cases with Surgeon for both in-patients and out-patients being treated to maximize the Outcome.



The Department also provides home physiotherapy at the patient's place of residence specifically for patients who have undergone surgical treatment at our hospital and who further need long term physiotherapeutic rehabilitation services. The majority of patients who benefit from home physiotherapy services include senior citizens, pediatric patients with developmental disabilities and other conditions, and patients with poly trauma injury.

## Education and Research

Our objectives of imparting professional education, combined with fostering innovative thinking, application of knowledge, inculcating professional ethics and consciousness to social responsibilities, are being met at our department in an integrated form. Our department organizes CME and Hands on Workshops as a integral part of the educatational servises every year. Team plays a active role in the research activity that enhance the knowledge and create new norms in the therapy protocol. 893 Internship Trainees and Students from various Institution have been trained between 2015-2022.

## Orthopaedic Physiotherapy Patients

2015	2016	2017	2018	2019	2020	2021	2022
44,478	47,854	49,445	54,149	54,197	28,079	63,313	68,231



Currently we have 35 physiotherapists, 3 physiotherapy assistants providing physiotherapy services .

# Staff



Mrs Vandana CG, Dr Ishwar Balaji, Mr Ramakrishnan K, Mrs Sindu Deepa

**Chief Executive Officer (CEO) : Mr Ramakrishnan K** is a senior executive appointed as the CEO of Ganga Hospital from 2022. He has a vast experience in banking & HR management. He strikes a balance between overseeing daily operations and the strategic development projects necessary for long-term success.

**Administrative Officer : Dr Ishwar Balaji** moved to hospital administration after 12 years of clinical experience as a dental surgeon. He has successfully implemented the practice of core values of the institution and have been responsible for maintaining high quality of service as per the NABH guidelines.

**Manager- Operations & Quality : Vandana CG** is responsible for Managing the hospital's policies and procedures, ensuring that best practices are followed, and resolving cases where there is non-compliance. She is also the accreditation coordinator of the hospital.

**Manager Orthopaedic OPD: Sindu Deepa** is the Manager of the Orthopaedic Out-patient department who takes care of the smooth and seamless functioning of the vast number of patients visiting the hospital on a daily basis.

## Theater Staffs & Technicians

The hospital has 36 operating theatres which are staffed with 223 highly skilled theatre nurses, Anaesthesia technicians and theatre technicians. The theatre personnel are trained well in basic surgical nursing, theatre ethics, etiquette, scrubbing techniques, principles of sterility and orthopaedic surgical principles before inducting them in clinical care.



Mr G Prabhu, Mr Mohana Krishnan, Mrs Radha & Mr Balakrishnan

## Department Secretaries

Mr Mohana Krishnan, Mr G Prabhu, Mr Balakrishnan & Mrs Radha, support the department in all its academic, research and clinical activities. They are involved in maintaining database for conferences and courses, documentation of patient information, preparing brochures and activity reports periodically, academic programmes for DNB and FNB courses, patient related queries, inter-disciplinary communications and other educational activities.

## Physician Assistants

The research department has fifteen physician assistants who are actively involved in the collection of data and clinical evaluation. The team of physician assistants have completed a four year basic bachelor course and form an integral part of the research work and clinical activities including out-patient clinical assistance and theatre support.



Mrs Sumathi & Ms Barveen Ruby

## Out-patient department Staff

The out-patient department is managed by Mrs Sumathi & Ms Barveen Ruby along with 75 support nursing staff. The clinics run from morning 8 AM to 6 PM on all six days of the week. The out-patient clinics are busy and demanding which requires lot of co-ordination among the nursing staff, physician assistants and consultants to ensure a good experience for the patients. The orthopaedic out-patient department involves minor procedures including plaster applications, external fixator removals and intra-articular injections.

## *Dr Ravindra Bhat Oration*

Dr Ravindra Bhat headed the Department of Anaesthesia of Ganga Hospital from 1993-2012 and laid the foundation for trauma care in the hospital. His dedication and involvement in the care of severely injured left an everlasting impression to all those who have met him. He did pioneering work in the initial management of polytrauma victims, regional anaesthesia and nerve block and was a source of inspiration for the numerous fellows and trainees from all over the world.

To perpetuate his memory, 'Ganga Hospital – Dr Ravindra Bhat Memorial Oration' has been initiated and is being delivered annually by an eminent personnel.



**Dr Ravindra Bhat**  
1993-2012

He immensely contributed in setting up protocols for Trauma Resuscitation and On-arrival Nerve block to multiply injured patients which made them pain free instantly. His yeoman service to mankind came to an end due to his untimely demise in 2012.

***As suggested by Dr TVS Gopal the Academic Director of AORA, AORA named the AORA Oration in Dr Bhat's memory.***

**These Orations were delivered by the doyens of Regional Anaesthesia from across the globe.**

- 2013: Dr S Ganapathy, Canada
- 2014: Dr Vincent Chan, Canada
- 2015: Dr Manoj Karmakar, Hongkong
- 2016: Dr Prithivi Raj, USA
- 2017: Dr Sanjay Sinha, USA
- 2018: Dr Philip Mcaire, Vietnam
- 2019: Dr William Harroop Griffiths, UK
- 2022: Dr Ed Mariano, Philippines
- 2023: Dr J Balavenkatasubramanian, India

***Ganga Hospital Dr V Ravindra Bhat Oration was established in the year 2015 and every year during the Annual Ganga Anaesthesia Refresher Course this Oration would be delivered. The distinguished Orators so far are as follows:***

- 2015: Dr Kunal Sarkar, Past President of Association of Cardiothoracic Surgeons of India, Kolkatta
- 2016: Shri Mahtria Ra, Infinethism, Chennai
- 2017: Dr B K Krishnaraj Vanavarayar, Chairman, Bharathiya Vidya Bhavan, Coimbatore Kendra
- 2018: DR Bhavani S Kodali, Associate Professor of Anaesthesia, Harvard Medical School, USA,
- 2022: Dr Yatin Mehta, Chairman, Institute of Critical Care and Anaesthesiology, Gurugram, Ne Delhi
- 2023: Dr Arvind Palanisamy, Washington University in St. Louis | WUSTL, Wash U · Department of Anesthesiology, USA

*To live in the hearts of those who love you is never to die...*