‘Small Aim is a Crime’

-Dr. APJ Abdul Kalam
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.

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

**Vision**

- To show case 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.

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**Founders**

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

*Their vision, commitment and hard work laid foundation for this institution ...*  
*...By example, they continue to inspire us.*

Dr S Rajasekaran & Dr S Rajasabapathy  
Heads of Departments of Orthopaedics and Plastic Surgery
Department of Orthopaedic Surgery Highlights 2008 - 2010

Conferences Hosted
- ASSICON - January 2008
- Combined Instructional Course of ISSLS & ASSI - January 2008
- Ganga Operative Arthroplasty Course - May 2008
- Ganga Operative Spine Course - April 2009
- Ganga Orthopaedic Trauma Course - October 2009
- Ganga Ortho-Physio Course - July 2009
- Ganga Operative Trauma Course - September 2010
- POSI-POSNA Paediatric Fracture Course - October 2010

Research Milestones
- Department of Scientific and Industrial Research (DSIR) Recognition
- Department of Biotechnology (DBT) - Approval for DTI project
- Approval for Ph D program by Dr MGR Medical University

Corporate Social Responsibilities
- Project "Help Line" - Help for the Helpless
- "Uyir" - A People's Movement Against Road Accidents
- Inauguration of project 'SWASAM' by Former President, Shri APJ Abdul Kalam
- Road Safety Booths

Out patients
<table>
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<tr>
<th>Year</th>
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<th>2009</th>
<th>2010</th>
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<tr>
<td></td>
<td>93,209</td>
<td>116,931</td>
<td>111,986</td>
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<td>In patients</td>
<td>12,902</td>
<td>14,477</td>
<td>19,317</td>
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<td>Surgeries</td>
<td>8,662</td>
<td>9,092</td>
<td>11,766</td>
</tr>
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Research Collaborations
- Tamil Nadu Agriculture University, Coimbatore - Gene analysis in patients with back pain
- University of Hongkong - Genetic basis of DDD
- Venkateshwara University, New Delhi - Biochemical analysis of End-Plate in disc prolapse
- Central Leather Research Institute, Chennai - Analysis of collagen characteristics of Lumbar discs in health & Disease

Prestigious Orations 2008 & 2009
- Prof. Kalyanaraman Oration, Chennai, 2008
- Prof. Ranga Reddy Memorial Oration, OSSAP, Karimnagar, 2009
- S Ranganaraj Memorial Oration, Chennai, 2009
- Prof. T K Shannugra Memorial Oration, Trichy, 2009
- Prof. AK Saha Memorial Oration, WBOA, Kolkata, 2009
- Baroda Orthopaedic Association Annual Oration, Baroda, 2009

Salient Awards 2008 to 2010
- ISSLS Prize 2010
- Prof Vyageswarudu Gold Medal - TNOA 2010
- Prof M Ramanathan Consultant Medal - TNOA 2010
- ASSI Publication Award - 2010
- ASSI Basic Science Award - 2010
- ASSI DePuy Best Clinical Research 2010
- ASSI Young Investigator Award - 2010
- Best Published Paper Award - ISSNICON 2009
- ASSI DePuy Best Publication Award - 2009

Prestigious Orations 2010
- Prof. Bavadekar Oration, MOACON, Nasik, 2010
- Silver Jubilee Oration, Indore Orthopaedic Association, 2010
- Golden Jubilee Commemoration Lecture, IOACON, J ammu, 2010
- Prof. P K Duraiswamy Oration, NZIOACON 2010, J ammu, 2010
- Grand Rounds Lecture, Mayo Hospital, USA
Established in 1978 in Ramnagar, 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

The years 2008-10 saw us through significant progress in all the three fields of clinical, academic and research activities of the department. Expansion of the hospital allowed us to cater to 1,19,860 outpatients and perform 11,766 major orthopaedic procedures elevating us to one of the largest orthopaedic units in the world and a major health care provider of our country. In addition, facilities like two universal computer navigated surgery platforms, two 3D ISO-C machines, 10 C-arms for intraoperative fluoroscopy, advanced intraoperative spinal cord monitoring instrumentation, high-end spine surgery microscopes, cell saver equipment to reduce intra-operative blood loss have also helped us to improve the quality of care inspite of the increase in quantity.

On the academic front, the department provides post graduate training in orthopaedics and super-speciality training in spine surgery and trauma surgery. It also provides numerous fellowships which were availed of by 81 Indian and 21 international surgeons in the last three years.

The research activities of the department have helped to place Coimbatore in the world map of Orthopaedic and Spine research. Apart from numerous national research awards, the department was also the proud recipient of the ISSLS Research Awards twice and the EuroSpine Open Paper Award, 2008. The department also has been recognised by the Department of Science & Industrial Research as a Research Unit. In 2010, the department has also been approved by the Tamilnadu Dr MGR Medical University for PhD studies in Orthopaedic surgery.

Our responsibility to the society was consolidated under the programme SWASAM (inaugurated by Shri APJ Abdul Kalam) through ten community service projects. The unit also enthusiastically participated in the Tamilnadu Chief Minister's Below Poverty Line Scheme operating on 7011 patients and thereby becoming the highest single speciality contributor to the scheme in the whole state.

While we move forward, it is my duty to thank our referring physicians for their support, our patients for their trust and above all God Almighty for his continued blessings. It will be our endeavour to improve and continue to be a center which will be a pride of our country.

Prof. S. Rajasekaran
M.S., DNB., F.R.C.S.(Ed)., M.O.V.L(M), FACS., F.R.C.S.(Eng)., Ph.D
Chairman, Dept of Orthopaedic & Spine Surgery.

"Every morning we have two choices-continue to sleep and dream, or to wake up and chase our dreams"
The Hospital has elaborate infrastructure that ensures comfort and safety of the patient with the delivery of high-quality treatment. In the operating theatres, special care has been taken to maintain the highest level of safety and technical accuracy. The hospital is the only one in the country which can boast of two high-end open navigation platforms (BrainLAB, Germany) along with two ISO-C-3D intra-operative imaging equipments. The operating theatres have ten C-arms and five Carl Zeiss operating microscopes and sophisticated anesthetic equipments to provide high level of intra-operative accuracy and safety.

The in-patient room facilities range from economy rooms to various grades of luxury rooms which provide privacy and comfort for patients. These include six deluxe suites which allow family members of patients from long distances or overseas to stay with the patient and provide the much needed family support.

**“The interest of the patient is the only interest”**
- Dr. W J Mayo

The unit handles around 12000 major orthopaedic surgeries a year. The facilities in the operating theatres have been constantly upgraded to minimize the complication rates.

- 18 state-of-the-art, fully equipped operating rooms
- 6 Operating Rooms exclusively to handle emergency trauma
- 24X7 ready availability of consultant anesthetist, orthopaedic and plastic surgeons
- 2 Navigation platforms (BrainLAB) with ISO-C 3D C-arms
- 10 high resolution C-arms
- Neuro-monitor for intra-operative Spinal cord monitoring
- Cell saver equipment
- Extensive inventory of implants

Supportive services form the cornerstone of success for any surgical unit. The hospital has in-house supportive services like laboratory, regional blood bank and advanced imaging facilities to provide a continuum of patient care right from admission to discharge.
“If you want to walk far, walk together” - Chinese Proverb

Dr. S. Rajasekaran and Dr. S. Raja Sabapathy head and supervise the clinical work of the orthopaedic and plastic surgery departments respectively. The orthopaedic department consists of four additional consultants who have specialty interests in addition to providing trauma care services. The consultants are ably supported by six senior Registrars, nine Registrars, six Spine Fellows, two Trauma Fellows, two Arthroplasty fellows and eleven DNB post graduates.

Prof. Dr. M. V. Daniel is the Academic Director for the Department of Orthopaedic Surgery. His experience as the former Head of Department, Christian Medical College, Vellore has richly benefitted the unit. He also chairs the Ethics Committee of the department.

Chairman, Dept. Orthopaedics Surgery
Prof. S. Rajasekaran

Academic Director
Prof. Dr. M. V. Daniel

Consultants

Dr. J. Dheenadhayalan
• Complex Trauma Reconstruction
• Upper Limb Surgery

Dr. SR Sundararajan
• Sports Medicine
• Arthroscopy

Dr. T Ajoy Prasad Shetty
• Spine Surgery

Dr. P Dhanasekara Raja
• Arthroplasty

Senior Registrars

Dr. N. Rajkumar
Dr. Ramesh Perumal
Dr. Vijay Kamath

Dr. K. Venkatdass
Dr. A. Devendra
Dr. Oommen Mathew

Registrar
Dr. Ravi Chandra Vattipalli
Dr. Geethan
Dr. S. Leo Bernard
Dr. Arun Kamal C
Dr. Merawangi Gururaja
Dr. Mohan S. R.
Dr. Prem James Charles
Dr. M. Jayakumar
Dr. S. Rajadurai

Spine Fellows
Dr. Rishi Mugsheh Khanna,
Dr. M. Subbiah,
Dr. Abhishek Manu,
Dr. Nipun Bajaj,
Dr. Alok Thomas,
Dr. Saktikani Subramaniam,
Dr. Gaurav Khandelwal
Trauma Fellows
Dr. Srikanth

DNB Trainees
Dr. S. Muthukumar, Dr. Sudhir, Dr. Barun Kumar Godwara, Dr. Noel Naleen Kumar,
Dr. B. M. Venkatdeep, Dr. Sudheer Kumar Reddy K, Dr. Deepak R, Dr. Ajay Gahukamble,
Dr. Kunal Ajay Shah, Dr. Radhakrishna V N, Dr. Balachandra Gopalan
Current Positions

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
- Member, Faculty of Medicine, Annamalai University
- Member, Board of Studies, Bharathiar University

Professional Bodies:
- President-Elect, Indian Orthopaedic Association
- President, Association of Spine Surgeons of India
- Vice President, ISSLS, Canada
- Vice President, Tamilnadu Orthopaedic Association
- President, Association of British Scholars, Coimbatore Chapter

International Awards:
- ISSLS Award 2010, 2004
- EuroSpine Open Paper Award 2008
- Honorary Fellowship, Royal College of Surgeons of England, 2010
- ISSLS Macnab La Rocca Award 2005
- Harvard Medical International Award, 2007

National Awards
- 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
- ASI Hari Om Ashram Alencic Research Award 2004

Publications
- Chief Editor, ASSI Textbook of Spinal Infections & Trauma
- Chief Editor, Video Atlas of Spine Surgery

Reviewer of Journals
- European Spine J | journal (Executive Editorial Board Member)
- Spine (Deputy Editor)
- J journal of Bone and Joint Surgery (B).
- INJURY | journal, UK.
- J | journal of Orthopedic Surgery, Hong Kong.
- J | journal of Orthopaedic Science, Japan.
- Indian J | journal of Orthopaedics.

Dr Rajasekaran has been instrumental in building and shaping the orthopaedic department into a very busy clinical unit with strong academic and research components. He 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 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.

Dr. J. Dheenadhayalan joined the department in 1992 and became Consultant in 1998. Trained in basic Orthopaedics from Mysore, he underwent advanced training at Nuffield Orthopaedic Centre, U.K. and a fellowship in joint replacement Surgery at Regensburg and Tubingen Hospitals, Germany. He was the Organising Secretary of the Indo German Orthopaedic Foundation Meeting, 1999 and the Ganga Shoulder-Elbow course in 2007. A founder member of the trauma section of Asia Pacific Orthopaedic Association, he is currently the Council Member of AO Foundation, India. He is the Secretary-General elect for the World Orthopaedic Concern and is the Editorial secretary of the Tamilnadu Orthopaedic Association.

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 was the Organising Secretary for the APOA Operative Spine Course in 2007. He is a regular faculty at AO Spine Courses and was awarded the ISSLS International Fellowship for the year 2007. He is also the co-author of the scientific papers which won the ISSLS Prize 2004 and EuroSpine Award 2008.

Dr. S.R. Sundararajan is a Consultant in Arthroscopy and Sports medicine. He joined the department in 1998. After receiving advanced training in Arthroscopy and Arthroplasty at Flinders Medical Centre, Australia he returned in 2004 to become Consultant at Ganga Hospital. He has presented papers on trauma at the Asia Pacific Orthopaedic Association meetings and is a regular faculty at National Conferences. He visited Arthroscopy centres in France and Cape Town, South Africa to train in current trends in arthroscopy. He won the first prize for paper presentation in annual Indian Arthroscopy Society meeting, Goa in 2008.

Dr. P. Dhanasekara Raja has been a Consultant since 2006. He joined the department in 2002. He completed Fellowships in Arthroplasty and Arthroscopy at Flinders Medical Centre, Adelaide and Fairfield Hospital, Sydney, Australia and was the APOA Travelling Clinical Arthroplasty Fellow in 2010. He has done various clinical research work in joint replacement and has won the “Mohandass Weller Gold Medal” for best paper at IGOF Meeting, November 2005, Vyageswaru Gold Medal at TNACON 2009 and Prof. Ramanathan Gold Medal for Consultants at TNOA conference in 2010. He was also the Organising Secretary for the Intelligent Knee Course, 2006, Ganga Operative Arthroplasty Course, 2008.
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 will be the President of City Branch of ISA, Coimbatore Chapter in 2011-12.

Dr. J Balavenkatasubramanian joined the institution as a Consultant in 1995. He currently serves as the Founder President of Academy of Regional Anaesthesia of India, Member Editorial Board of Indian Journal of Anaesthesia, Academic Council member of Indian College of Anaesthesiologists. He is the National Executive Committee Member of International Trauma Care, Indian Chapter and Scientific Committee member for the South Asian Confederation of Anaesthesiologists conference 2011. He is also National Faculty and Instructor for Comprehensive Trauma Life Support and Faculty Coordinator for Aesculap Academy Ganga Hospital Advanced Regional Anaesthesia Training. He was also invited Faculty for the World Congress of Anaesthesiologists in South Africa 2008 and Argentina 2012. He has delivered 154 lectures at national conferences and 12 lectures at International conferences.

Dr. Prabu CR joined in the Department of Anaesthesia in 2007 as anaesthetist and intensivist after completing fellowship in UK. He has got special interest in chronic pain management and involved in medical and interventional pain management of such patients in the hospital.

The department has three Senior Consultants, two Junior Consultants, three Senior Registrars, three Fellows, two Tutors and Ten Post Graduates. The motto of the department is to provide Safe Anaesthesia for All. The Department of Anaesthesia offers 24 hours peri-operative care to the patients. They offer their services as perioperative physicians which encompass preoperative assessment and optimisation including on-arrival nerve and plexus block for patients with severe pain following trauma, resuscitation of polytrauma victims and postoperative pain service apart from intra-operative care.

Dr. C Sekar

Dr. J Balavenkatasubramanian

Dr. Prabu CR

Right to Left : Dr. Maheshwari, Dr. Nikhil, Dr. Lokesh Chinchkhede, Dr. Samta, Dr. Gurumurthy, Dr. C Sekar, Dr. Mayank Gaur, Dr. Balavenkat, Dr. C Prabhu, Dr. Ashwini, Dr. Gaurav, Dr. Hemalatha, Dr. Vivekanandan, Dr. V Satheesh Kumar, Dr. Rajendra,
With more than 51,000 new out-patients and nearly 12,000 major surgeries in the year 2010, the department stands as a leader in the field of orthopaedic surgery in this part of the world. Nearly 40 major orthopaedic surgeries are performed every day with a similar number in Plastic and Hand surgery departments. High quality trauma care is ensured by a healthy symbiosis and collaboration between the orthopaedic, plastic, anaesthetic, neuro and facio-maxillary surgery departments. The clinical work is periodically audited to make sure that high standards are maintained at all stages of treatment.

The high clinical load is well supported by excellent infrastructure facilities with 420 beds, 18 operating theatres, state-of-the-art radiology department with in-house MRI and CT scan facilities. The operating theatres have two computer navigation surgery platforms, 3D IS0-C 3D C-arms, high end operative microscopes and state-of-the-art operative equipments all of which help to ensure the best possible results to the patients. Excellent recovery of patients is aided by well equipped department of physiotherapy and rehabilitation.

**New Elective Out-Patient Registration**

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<td>51,754</td>
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**Emergency casualty attendence**

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<td></td>
<td>11,427</td>
<td>13,716</td>
<td>19,683</td>
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**Major Orthopaedic Surgeries**

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**Orthopaedic Physiotherapy patients**

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