

ACTIVITY REPORT 2004 & 05



We touch lives. We make a difference.

**DEPARTMENT OF PLASTIC SURGERY,
HAND SURGERY AND RECONSTRUCTIVE MICROSURGERY**

GANGA HOSPITAL, Coimbatore, India.
E-mail : srs@gangahospital.com www.gangahospital.com



Ganga Medical Centre & Hospitals Pvt. Ltd.
Shanmuganathan Kanakavalli Speciality Centre
for
Plastic, Hand & Reconstructive Microsurgery
and Orthopaedic & Spine Surgery

FOUNDERS



Dr. J G Shanmuganathan, Chairman &
Mrs. Kanakavalli Shanmuganathan, Managing Director

The one important lesson that we learnt from our founders
To believe that it is possible to do it.



Dr S Raja Sabapathy (Standing)
& Dr S Rajasekaran (Sitting)



The Two Years2004 and 2005

We are pleased to present the biennial report of our activities for the years 2004 and 2005. The three avenues of activity of a surgical unit are Patient care, Academic Pursuits and Corporate Social Responsibility. Quality Patient care remains and will ever remain our main focus of activity. We aim to deliver consistent high quality care at an affordable cost to our patients. The high volume of work to a great extent helps us to make it possible. For the fourteenth year in succession since we started our unit, we have had the opportunity to serve more patients than the previous year. We thank our patients for the patronage and all those who supported us to make this possible.

On the academic front we are now recognized by the National Board for training candidates in Plastic Surgery and in the post doctoral fellowship programme in Hand and Microsurgery. It is our goal that we should be valued internationally as one of the best centres for training. The growing number of trainees and visitors from India and abroad augurs well.

The new educational initiative, “Ganga Hospital – Johnson & Johnson Visiting Professorship” started in 2005 has been a great success and we are sure it will again be a trendsetter. We won the **Peet Prize** for the best paper in annual conference of **Association of Plastic Surgeons of India** and the best paper award of the **Indian Society for Surgery of the Hand**.

The “**Help for the Hands in Need**” programme run with the partnership of Rotary International and the Rotary Club of Coimbatore Metropolis is nearing completion this year and we have performed 150 major and minor Hand surgeries to deserving people under this scheme. We were bestowed with the “**For the Sake of Honour**” award by the Rotary Club of Coimbatore Metropolis. They enthuse us to continue to discharge our social responsibilities with more vigour. Maintaining a balance while advancing on all three fronts has been possible only because of ‘**THE TEAM**’ where every member not only did what was needed but was always willing to go beyond.

Dr S Raja Sabapathy

Director

Department of Plastic Surgery, Hand Surgery & Reconstructive Microsurgery





Moving Ahead...

We will be moving to the newly constructed hospital in the coming year. The increased working space and the seven exclusive operation theatres for Plastic Surgery Department will provide us the opportunity to raise the quality of service to our patients. The Unit will offer the best services and follow safe practices that every patient deserves. It will be a place where every member of the team has the opportunity to raise up to his / her full potential. This will be a centre which will make our country proud.

We will also be opening up newer avenues of service, a state-of-art Burns care department which we feel is the need of the hour. This will be housed in a 8800 sq feet facility with exclusive resuscitation room, operating theatres, intensive care facilities, level I & II step down care areas and a wing for prevention and rehabilitation of burns. This will also have an in-house manufacturing facility for compression garments.

Our facio maxillary surgery unit will be expanded with a separate wing for orthognathic surgery procedures.



1978 - 17 Beds



1997 - 135 Beds



2006 - 400 Beds



2006
28th Year of Service

**ADDITIONAL
FEATURES**

NEW FACILITY

**RETAINING THE
SAME CORE VALUES**

Plastic Surgery Department	2004	2005
Total number of Surgeries	3591	4100
Number of New Hand Surgery Patients	1552	1774
Number of New General Plastic Surgery Patients	1062	1269



Our Vision...

Our core idea is to provide the best possible Plastic surgical and Microsurgical services to every injured person who reaches our hospital at all times. With this we formulated the Vision 2012 statement which we published in 2002. It is reproduced here

“As a Citizen of India, armed with knowledge and technical expertise and above all a great sense of patriotism for our country, ***I realize that Small Aim is a Crime***”

Shri. APJ Abdul Kalam
President of India

.....and the Vision for 2012

- 1 We wish to establish the role of Plastic Surgery and Microsurgery in acute trauma amongst the medical profession and increase the public awareness. A country of a billion people needs many dedicated centres where high quality care with Microsurgery facility is available. We would develop this as the Best Centre for Hand Surgery and Trauma Reconstructive Surgery which would serve as a prototype for the development of other centres in the country. It will develop with a high degree of social responsiveness so that every person who needs the exclusive services of the centre will have access to the facilities and expertise irrespective of their means.
- 2 The unit will serve to promote closer co-operation between Plastic Surgery, Orthopaedics and Anaesthesia in the management of major limb trauma. It is our intention that by 2012, every major trauma unit in the country will be supported by a high quality Plastic Surgical team, and 80% of them will have at least one member trained or influenced by Ganga Hospital.
- 3 We will become one of the preferred centres for training in the field on a global level, where trainees will come by choice. Putting Coimbatore and India as the destination for advanced training will be our goal. We realize that we should provide high quality care and a good academic environment with high volume of work to make it possible.
- 4 We will work to make the Hospital as one of the most valued and respected health care provider of the country. It will be driven by a team of people who share the same vision. The hospital will provide every team member the opportunity to reach their full potential.





Management of Complex Hand Injuries

The Unit continues to successfully face the challenge of providing quality reconstruction for complex hand injuries to a large number of patients who predominantly belong to the working class community. This has been possible by the introduction of new techniques and refining existing practices. Protocols combining microsurgical as well as conventional plastic surgical techniques have been devised to suit the local conditions.

Statistics

	2004	2005
Major Flaps to Upper Limb		
Abdominal / Groin Flaps	80	98
Transposition Flaps	18	8
Posterior Interosseous Flaps	12	10
Free Gracilis Flaps	3	5
Anterolateral Thigh Flaps		1
Lateral Arm Free Flaps	1	1
TFL Flaps	2	
Pedicle LD Flaps		3
Radial Forearm Flaps		1
Finger Injuries		
Nail Bed Repair	230	231
Nail Bed Graft	3	11
Straight Triangular Flaps	72	70
Oblique Triangular Flaps	44	77
Littler Island Flaps	1	
Cross Finger Flaps	116	126
Reverse Dermis Flaps	3	2
First Dorsal Metacarpal Artery Flaps	5	5
Transposition Flaps	15	20
Composite Graft	2	3
Shortening and Closure	153	210
Ray Amputation	3	11
Nailbed Advancement Flaps	9	5
Surgery in Extensor Tendons		
Extensor Tendon Repair (all levels)	117	118
Tendon Graft For Extensors	2	1
Tenolysis	4	8
Surgery in Flexor Tendons		
Flexor Tendon Repair (all levels)	52	76
Flexor Tendon Grafts	6	5
Flexor Tenolysis	8	3
Surgery on Bones		
Moulding Of Fractures	36	53
Zimmer Splint Traction	10	21
Open Reduction & Internal Fixation of Fractures		
Phalanges	105	170
Metacarpals	99	93
Bennett's Fracture	10	13
Scaphoid	6	1



A 28 year old worker in a saw mill sustained near total amputation of his left hand when the electric saw accidentally slipped. The tendons and nerves were repaired and the hand was made viable with vein grafts. The exposed critical structures were covered by a muscle flap with the aid of microsurgery. By 9 months he was back in his job.

	2004	2005
Dislocations		
Carpo Metacarpal Joint		12
Metacarpophalangeal Joints	3	6
Inter Phalangeal Joints	1	3
Arthrodesis		
MCP Joint	3	6
CMC Joint	3	4
PIP Joint	34	19
DIP Joint	24	8
Bone Grafts To Phalanges/Metacarpals	13	15
Volar Plate Arthroplasty	5	5

	2004	2005
Collateral Ligament Injuries	8	8
MCP Joint Capsulotomy	10	16
Derotation Osteotomy		12
Interposition Arthroplasty	2	1
Excision of Bony Spur	4	0
Synovectomy	2	0
Capsulodesis	1	2
Carpal Injuries	2	2
Proximal Row Carpectomy	1	2
Trans Scaphoid Perilunate Dislocation	4	1
Kienbock's	2	0
External Fixator Application	1	0

Awards & Recognitions

- **Invited Lecturer**, Instructional Course in Hand Surgery - British Society for Surgery of the Hand, Manchester, 28th - 29th January, 2005.



Mr Joseph Dias, Chairman, BSSH Instructional Courses presenting the appreciation award.



From Rt to Lt - Mr Simon Knight, Mr Roderick Dunn, Mr D Mohan, Ms Catina Bernardis, Mr Raj Ragoowansi, (Four Ganga Alumni) Mr David Elliot & Dr S Raja Sabapathy at the Manchester Course.

- **Best Poster Award** - 28th Annual meeting of the Indian Society for Surgery of the Hand, Gangtok, 19th-21st November, 2004.

Title : Primary Bone Grafting with lower abdominal pedicle flaps for cover for immediate reconstruction of composite dorsal defects of fingers.

Pedicle flaps as cover were deferred during primary bone grafting for the fear of infection, since one side was open. This poster presented the experience between 1995 - 2003 where lower abdominal pedicle flaps were used in 26 fingers in 20 hands with combined loss of soft tissue and bone. All flaps survived and all bone grafts went on to union. Two deep infections settled with antibiotic and debridement. We felt that infection was related to the quality of debridement and pedicle flaps could safely be done.



Dr Hari Venkatramani with the Best Poster award with Dr GN Malaviya (Past President ISSH), Dr Bhaskarananda Kumar (President ISSH) and Dr S Raja Sabapathy, Secretary, ISSH.





- **Selected Poster** - 9th Triennial Congress of the International Federation of the Societies for Surgery of the Hand, Budapest, Hungary, 13th -17th June, 2004.

Title : Functional Outcome Of Extensor Carpi Radialis Longus (ECRL) Transfer For Finger Flexion In Post Traumatic Flexor Muscle Loss .

This poster was selected as one of the top 20 posters among the 600 presented in the meeting



The purpose of this study was to assess the functional outcome after extensor carpi radialis longus (ECRL) transfer for restoration of finger flexion in patients with flexor muscle loss after direct trauma. The results of 8 patients who had ECRL transfer for flexor muscle loss were compared with the results obtained by free muscle transfer and pedicled LD transfer in the literature.

Results : The ECRL transfer yields good results if the intrinsic muscles of the hand are functioning, the extensor compartment is uninjured, and the lower third of the forearm where the tendon junction is performed is relatively unscarred. In such instances the range of movement and grip strength achieved are better than a latissimus dorsi muscle pedicle graft and are comparable with a FFMT. This is achieved earlier than the time taken for reinnervation of FFMT and without the attendant risks for flap failure. The ECRL transfer for finger flexor restoration is a more simple alternative that should be considered when possible.



With Dr Kevin Chung, Chief of Hand Surgery, University of Michigan, Ann Arbor, USA.

- **Visiting Professor** - Department of Plastic Surgery, University of Michigan, Ann Arbor, USA., 28th-30th, Sep 2005.

“We are all thrilled by your visit. We shall stay in touch and work together on many projects that will advance this specialty. Please keep up your good work in Coimbatore”

- Dr Kevin Chung

- **Secretary, Indian Society for Surgery of the Hand**

Dr S Raja Sabapathy was re-elected as the Secretary of the Indian Society for Surgery of the Hand for another term of 3 years at Kochi in 2005.



Dr Hari Venkatramani - with Dr Upali Banagala, President, College of Surgeons of Sri Lanka.

- **Invited Resource Person (Hand Surgery Workshop) - Annual meeting of the College of Surgeons of Sri Lanka.**

17th-18th August, 2005. - Dr Hari Venkatramani.

- **Best Paper Award - 29th Annual Meeting of the Indian Society for Surgery of the Hand.** Kochi. 26th-28th August, 2005. **Title :** Achieving Better Cosmesis in Fingertip Amputations at the Base of the Nail - Dr. Hari Venkatramani.



- **Member of Editorial Board of the Journal 'Techniques in Hand and Upper Extremity Surgery' :** Dr S Raja Sabapathy was invited to join the editorial board of the Journal - Techniques in Hand and Upper Extremity Surgery (Lippincott Williams & Wilkins, USA)

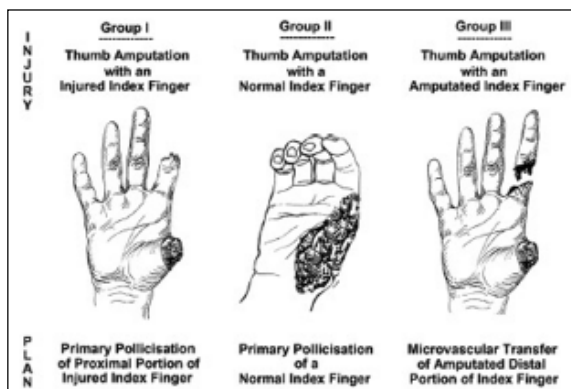
- **Venture Fund Award of the Association of Plastic Surgeons of India :** The award has been given to us for producing a set of teaching videos of Hand surgical procedures which will become the property of the Association of Plastic Surgeons of India and will benefit younger surgeons.

- **Invited Speaker - Panel on Acute Management of Major Hand Injuries** in the 7th Congress of the European Federation of National Associations of Orthopaedics and Traumatology, Lisbon, 4th-7th June, 2005 Topic: Skin Cover



From L to R - Mahmut Kumurcu, Turkey. S Raja Sabapathy, India. Ian Leslie, UK. Joao Mota da Costa, Portugal. Ayan Gulgonen, Turkey. Joerg van Schoonhoven, Germany.

Related Publications - Hand Injuries



- Raja Sabapathy S, Sandeep J, Sebastin, Hari Venkatramani. Primary use of the Index finger for Reconstruction of Amputated Thumbs. Brit. J. Plast. Surg. 2004; 57:50-60.

This article details with examples the strategies that could be adopted in three situations for primary use of index finger for thumb reconstruction.

- Raja Sabapathy S, Deepak KL, Ranade AB, Venkatramani H, Sebastin SJ. Functional Outcome of ECRL Transfer for Finger Flexion in Post Traumatic Flexor Muscle Loss. Journal of Hand Surgery, 2005; 30A: 267-272.
- S Raja Sabapathy. Acute Management of Major Hand Injuries - Skin Cover. Journal of Bone and Joint Surgery - British Volume, Orthopaedic Proceedings, Vol 88-B, Issue SUPP I, 13.



World View on the Management of Hand Injuries - Special issue in the Journal INJURY-The British Journal of Accident Surgery.

An initiative coordinated by Mr Joseph Dias, UK, was taken to give a current view of the provision, practices and differences in the epidemiology of Hand Injuries with a view to coming up with a simple set of recommendations for increasing the quality of hand injury care around the world. The chosen panel consisted of Mr Joseph Dias, UK, Mr Kevin C Chung, USA, Marc Garcia-Elias, Spain, Dr S Raja Sabapathy, India and Jin Bo Tang, China. Each member dealt with one aspect of Hand Surgery with the team providing the final set of recommendations.

- **Dr S Raja Sabapathy : Management of Complex Tissue Injuries and Replantation across the World. (To be published in Injury)**
- **Dias J, Chung KC, Garcia-Elias M, Sabapathy SR, Tang JB. : Recommendations for the improvement of Hand Injury Care across the World. (To be published in Injury)**

Invitation to Contribute Chapters in Books.

Dr S Raja Sabapathy has been invited to contribute the following chapters in the book “Towards Functional Hand following Trauma” edited by Prof R Venkatswami.

- **Refinements of Pedicle Flaps for Soft Tissue Cover in the Upper Limb**
- **Salvage of Mutilated Injuries to the Upper Limb.**

Related Presentations - Hand Injuries

2004

- **Principles of Tendon Transfers for the Therapist**
- **Spastic Hand Therapy**
- **Emerging Trends – Surgery for Cerebral Palsy Hands**
- **Flap Cover to Dorsum of Hand**

Dr. S. Raja Sabapathy, 3rd Review Course in Hand Surgery, Ganga Hospital, 2nd – 4th January.

- **Anatomical Basis of Various Tests of Sensation**

Dr Hari Venkatramani, 3rd Review Course in Hand Surgery, Ganga Hospital, 2nd – 4th January.

- **What do you test when you do various tests of sensation?**

Dr R Ravindra Bharathi, 3rd Review Course in Hand Surgery, Ganga Hospital, 2nd – 4th January.

- **Invited Faculty for the Pre Conference workshop on Hand Injuries**
- **Acute Flexor Tendon injuries**
- **Salvage of Mutilated Limb Injuries**
- **Soft tissue cover in the Upper Limb**

Dr S Raja Sabapathy, GOACON – Annual Meeting of the Gujarat Orthopaedic Association, Diu, 27th - 29th February.

- **Fractures of the Hand : Guest Speaker**

Dr S Raja Sabapathy, Coimbatore Orthopaedic Association, Coimbatore, 17th April.

- **Surgical Anatomy of the Hand**
- **Intra Articular Fracture of the Phalanges**
- **Management of Spastic Hands**

Dr S Raja Sabapathy, CME on Hand Surgery, Institute of Orthopaedic Research & Accident Surgery, Madurai. 30th May.

- **Suicides After Hand Injury**

Dr S Raja Sabapathy, 9th Congress of the International Federation of Societies for Surgery of the Hand, Budapest, Hungary, 13th -17th June.

- **Functional Anatomy of the Hand**

Dr S Raja Sabapathy, Institute Day-Institute for Research and Rehabilitation of Hand and Department of Plastic Surgery, Stanley Medical College & Govt. Stanley Hospital, Chennai, 27th June.

- **Conservative Management of Intra Articular Fractures of the Hand**

- **Microsurgical and Osteoplastic Reconstruction of the Thumb**

Dr S Raja Sabapathy, Asia Pacific Orthopaedic Association, Kuala Lumpur, Malaysia, 4th-10th September.

- **Spastic Hand & its Management**

Dr S Raja Sabapathy National Congress on Cerebral Palsy, Hotel Radha Park Inn, Chennai, 3rd October.

- **Moderator : Symposium on Free and Island Flap**
- **Symposium on Hand Surgery in Asian Pacific Area - Indian Scenario**
- **Static Traction Immobilisation and Early Active Mobilisation for the Management of Intra-Articular Fractures of PIP Joint of Fingers**

Dr S Raja Sabapathy, The 5th Congress of the Asian Pacific Federation of Societies for Surgery of the Hand at International House, Osaka, Japan, 12th -15th November.

- **Edge or the Base - Which is important for flap revascularization ?**

- **Reconstruction of an Injured Hand using Pedicle Flaps**

Dr S Raja Sabapathy, ISSHCON 2004, Indian Society for Surgery of the Hand, Gangtok, Sikkim, 19th -21st November.

- **Tips and Tricks in Hand Surgery**

Dr Hari Venkatramani, ISSHCON 2004, Indian Society for Surgery of the Hand, Gangtok, Sikkim, 19th -21st November



Dr Koshima and Dr S Raja Sabapathy moderating the session on Free and Island Flaps at the APFSSH Meeting in Osaka, Japan.



Dr Hari Venkatramani giving his talk in the Prize Paper Session at ISSHCON 2004, Gangtok.



2005

■ **Principles of soft tissue cover in Hand.**

Dr. S. Raja Sabapathy, MAPSICON-2005 3rd Biennial Conference of Maharashtra State Chapter of Association of Plastic Surgeons of India, Jalgaon, 22nd - 23rd January 2005



■ **Principles of Decision Making in Selecting Skin Cover**

■ **Fingertip Reconstruction with commonly used Homodigital Flaps**

■ **Distant Pedicle Flaps and Free Flaps - New and Old**

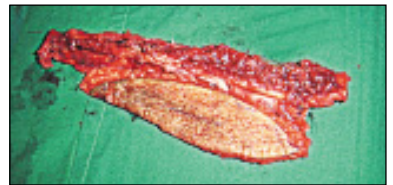
■ **Chronic and Rare Infections of the Hand**

Dr S Raja Sabapathy, Manchester Instructional Course in Hand Surgery Manchester, UK, 28th - 29th January.



■ **Instructional Course Lecture - Salvage of Mutilated Upper Extremity - A Step by Step Approach**

Dr S Raja Sabapathy, 9th Asian Pacific Congress of IPRAS, Mumbai, 19th - 23rd March.



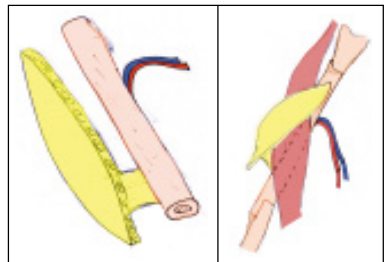
■ **Steps in Debridement**

■ **Soft Tissue Cover for Hand Injuries**

■ **Management of Middle & Proximal Phalanx Fractures**

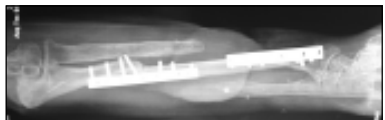
■ **Splintage Following Hand Trauma**

Dr S Raja Sabapathy, ISSH CME on "Management of Acute Hand Injuries", Dibrugarh, Assam. 24th, April.



■ **Symposium on Acute Management of Major Hand Injuries: Invited Guest Speaker Principles of Decision Making in Selecting Skin Cover**

Dr S Raja Sabapathy, 7th Congress of the European Federation of National Associations of Orthopaedics and Traumatology, Lisbon, Portugal. 4th-7th June.



■ **Pitfalls in Hand Surgery : Guest Lecture**

Dr S Raja Sabapathy, 3rd Workshop on Rapid Flap Harvest & Free tissue transfer and Interactive CME on Plastic Surgery, Nizam's Institute of Medical Sciences, Hyderabad, 10th - 12th June.



■ **Finger Tip Injuries**

■ **Management of Severely Injured Upper Extremity**

Dr Hari Venkatramani, Pre Congress Workshop in Hand Surgery, College of Surgeons of Sri Lanka, Taj Samudhra, Colombo, 17th & 18th August.

■ **PIP Joint Arthrodesis : Workshop**

■ **Avoiding Pitfalls in Hand Surgery : Guest Lecture**

■ **Restoration of Nail in Degloving Injuries of Digits**

Dr S Raja Sabapathy, 29th Annual Conference of Indian Society for Surgery of the Hand, Specialists' Hospital, Kochi, 26th -28th August.

A 60 year old doctor sustained an open fracture and due to complication of infection he developed infected non union and segmental loss of forearm bones. Radical debridement and a free fibular flap was done interposing the extensor tendons between the bone and the skin paddle. The graft went in for bony union and he retained good range of movement

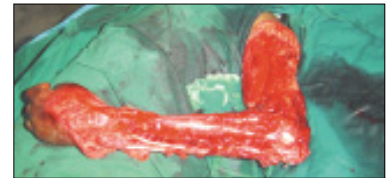
■ **Achieving Better Cosmesis in Fingertip Amputations at the base of the Nail : Best Paper Session**

Dr Hari Venkatramani, 29th Annual Conference of Indian Society for Surgery of the Hand, Kochi, 26th - 28th August.



■ **Tendon Transfers For Wrist Stabilization In Spastic Hand (FCU to ECRB)**

Dr Saranjeet Singh, 29th Annual Conference of Indian Society for Surgery of the Hand, Kochi, 26th - 28th August.



■ **Outcome of Emergency Proximal Row Carpectomy**

Mr S Balaji, 29th Annual Conference of Indian Society for Surgery of the Hand, Kochi, 26th - 28th August.



■ **Interactive Case Discussion Session Microsurgical Reconstruction of Complex Upper Limb Injuries : Invited Panel Speaker**

Dr S Raja Sabapathy, Joint Annual Meeting of American Society for Surgery of the Hand & American Society for Hand Therapist, San Antonio, Texas, USA, 22nd -24th September.



■ **Salvage of Major Mutilating Injuries of the Upper Limb Proximal to the Wrist : Visiting Professor**

Dr S Raja Sabapathy, University of Michigan, Ann Arbor, USA. 28th - 30th September.



■ **Salvaging Mutilating Upper Limb Injuries Proximal to the Wrist**

Dr S Raja Sabapathy, Combined Meeting of the British Society for Surgery of the Hand and British Association of Hand Therapists, Royal College of Surgeons of England, London, 4th November.



■ **Symposium on Complications - Invited Speaker on Hand Surgery**

■ **Restoration of Nail in Degloving Injuries of Digits**

■ **Protocol for Immobilization / Mobilization of hand following Tendon, Nerve & Vascular repair**

APSICON 2005- 40th Annual Meeting of the Association of Plastic Surgeons of India, New Delhi. 6th - 10th November.

■ **Achieving better cosmesis in fingertip amputations at the base of the nail**

Dr Hari Menon, APSICON 2005- 40th Annual Meeting of the Association of Plastic Surgeons of India, New Delhi. 6th - 10th November.

■ **Reconstruction of Severe Upper Limb Injuries: Distinguished Speaker of Singapore Hand Society**

Dr S Raja Sabapathy, Singapore Society for Surgery of the Hand, National University Hospital of Singapore, Singapore. 12th November.

This 32 year old lady while travelling in a two wheeler was knocked down by a lorry and sustained major crush injury left upper limb with circumferential tissue loss from the axilla to the wrist. A flap cover from the wrist to the elbow was provided by a pedicle flap with techniques refined at Ganga Hospital. (Narrow base, long pedicle with primary thinning) At 6 months she was using her hand for normal activities.



Workshop

- Opponensplasty
- Posterior Interosseous Flap
- Flap Thinning

Dr S Raja Sabapathy, Dr Hari Venkatramani, Seth Nandlal Dhoot Hospital, Aurangabad, 3rd - 4th December.

CME Lectures

- Nerve Injuries
- Salvaging Mutilated Limbs - Where are we today?
- Indications for Surgery in Rheumatoid Hand

Dr S Raja Sabapathy, Seth Nandlal Dhoot Hospital, Aurangabad, 3rd - 4th December.

- Management of Extensor Tendon Injury
- Thumb Reconstruction

Dr Hari Venkatramani, Seth Nandlal Dhoot Hospital, Aurangabad, 3rd - 4th December.

- Hand Injuries - where are we today?
- Surgery for Cerebral Palsy
- Nerve Injuries, Repair and Tendon Transfers

Dr S Raja Sabapathy, Hand Therapy Course, Ganga Hospital, 19th December.

- Extensor Tendon Injuries
- Adult Brachial Plexus Injury

Dr Hari Venkatramani, Hand Therapy Course, Ganga Hospital, 19th December.

- Complex Regional Pain Syndrome - Hand Therapist's Role

Dr Patrick Gillespie, Hand Therapy Course, Ganga Hospital, 19th December.

- Hand Therapy Management in Flexor Tendon Injuries
- Hand Therapy Management in Major Hand Replantation
- Hand Therapy Management in Hand Fractures
- Brachial Plexus - Assessment & Therapy

Mr S Balaji, Hand Therapy Course, Ganga Hospital, 19th December.

- Shoulder Rehabilitation

Mr G S Balachandaran, Hand Therapy Course, Ganga Hospital, 19th December.

- Hand Therapy Management in Extensor Tendon Repair

Mr G A Abdul Waheed, Hand Therapy Course, Ganga Hospital, 19th December.

- Therapy After Tendon Transfers

Ms Meenu, Hand Therapy Course, Ganga Hospital, 19th December

Replantation Services

The combination of the Microsurgical skills of the Plastic surgical team, round the clock availability of excellent Anaesthesiology services and a supportive Orthopaedics department makes this Unit a premier replantation and revascularization centre of the country.

Statistics

Replantations

Level	2004	2005
Arm	1	
Forearm	3	3
Hand	3	2
Thumb	12	12
Fingers	26	18
Ring avulsion	3	5
Scalp	1	
Total	49	40

Revascularisation

Level	2004	2005
Arm	6	8
Forearm	18	14
Hand	4	7
Thumb	10	5
Fingers	40	36
Lower Limb	4	2
Total	82	72
Vein Grafts	15	6

Awards & Recognitions

Douglas Lamb Lecture of the British Society for Surgery of the Hand

Dr S Raja Sabapathy was invited to deliver the **Douglas Lamb Lecture** created in memory of Prof Douglas W Lamb of Edinburgh, Past President of the International Federation of Societies for Surgery of the Hand.

The lecture titled '**Major Replantation of the Upper Limb**' was delivered on Nov 4, 2005 at the Royal College of Surgeons of England, London, during the Combined Meeting of the British Society for Surgery of the Hand and British Association of Hand Therapists.



Presentation of the medallion by Mr David Elliot, President of the British Society for Surgery of Hand

Best Paper Prize - 7th Biennial Meeting of the Indian Society for Reconstructive Microsurgery, 2004.

The presentation by Dr S Raja Sabapathy on '**Technical Steps for Success in Major Replantations**' was awarded the Best Paper Prize during the meeting held at Hyderabad.

Peet Prize - Association of Plastic Surgeons of India -2005

The presentation of Dr Hari Venkatramani on '**Technical Considerations and Functional Outcome in Replantation and Revascularization of Trans Metacarpal Amputations**' was adjudged as the Best paper in the Peet Prize Session of the Annual Conference of the Association of Plastic Surgeons of India (APSICON 2005) at New Delhi.





14 successful trans metacarpal replantations and revascularizations were analysed. The surgical considerations leading to a good functional outcome in this technically challenging level for reconstruction were detailed in this paper. This paper has been accepted for publication in the Journal of Hand Surgery (British & European Volume)



R N Sinha Prize 2004 – Best Article in Indian Journal of Plastic Surgery

The 2004 award for the Best Paper published in the Indian Journal of Plastic Surgery was given to the following article.

Raja Sabapathy S, Hari Venkatramani, Ravindra Bharathi R, Sandeep J Sebastin. Replantation of Ring Avulsion Amputations. Indian Journal of Plastic Surgery, 2003;36:76-83



Related Publications - Replantation Surgery

Invitations to contribute Chapters in Books.

- **Setting up of a Microsurgical Unit** - In the proposed book 'Towards a Functional Hand Following Trauma' edited by Prof R Venkataswami.
- **Vessels** - In the proposed book 'Atlas of Flaps and Microsurgical Techniques' edited by Fu-Chan Wei and Samir Mardini. (Publisher - Elsevier, UK)
- **Amputations and Replantations** - In the proposed multi volume book 'Plastic Surgery' edited by Guyuron, Persing, Eriksson, Gosain, Chung, Rubin and Disa. (Publisher - Elsevier, USA)

Papers in Peer Reviewed Journals

- Hari Venkatramani, Raja Sabapathy S. Simple technique for stabilizing subtotally amputated fingers during transport. *Plast Reconstr Surg.* 2004;113:1527-8
- Venkatramani H, S Raja Sabapathy. A Simple Technique for securing the amputated part in fingertip replantation. *Brit. J. Plast. Surg.* 2004; 57:592-3.
- Raja Sabapathy S, Venkatramani H, Bharathi RR, Sebastin SJ. Distal Fingertip Replantation without Skeletal Fixation. *Journal of Reconstructive Microsurgery.* 2005; 21:11-13



A technique of stabilization of the distal part during nail bed level replantation by suturing the nail bed only without K wire fixation was popularized in our centre. This is an original technique developed at Ganga Hospital. (*Journal of Reconstructive Microsurgery.* 2005; 21:11-13.)

- Raja Sabapathy S, Venkatramani H, Ravindra Bharathi R, D'Silva J. Technical Considerations in Replantation of Total Scalp Avulsions. *Journal of Plastic, Reconstructive & Aesthetic Surgery*, 2006;59:2-10. (This paper has been selected for inclusion in the **Year Book of Plastic & Aesthetic Surgery (Mosby/Elsevier)**)
- Raja Sabapathy S, Venkatramani H. Technical Considerations and Outcome in Replantation and Revascularisation of Trans Metacarpal Crush Amputations. Accepted for publication in *Journal of Hand Surgery (British)*

Studies in Progress

- Functional Outcome Study of One Bone Forearm during Replantation.
- Emergency Proximal Row Carpectomy in Replantation and Revascularisation for injuries at the wrist level.



Related Presentations - Replantation Surgery

2004

■ Replantation Surgery - The Ganga Hospital Experience

Dr Hari Venkatramani, 3rd Review Course in Hand Surgery, Ganga Hospital, Coimbatore. 2nd - 4th January.

■ Replantation Surgery - Technical Considerations and Functional Outcome - Guest Speaker

Dr S Raja Sabapathy, Chennai City Chapter of Association of Plastic Surgeons of India. 5th April.

■ Replantation Surgery

Dr S Raja Sabapathy, CME Programme in Plastic Surgery, Armed Forces Medical College, Pune. 10th-11th April.

■ Reimplantation Surgery in the Upper Limb

Dr S Raja Sabapathy, CME in Hand Surgery, Institute of Orthopaedics Research and Accident Surgery, Madurai. 30th May.

■ Technical Consideration and Functional Outcome of 20 Major Replantations

Dr S Raja Sabapathy, 9th Congress of International Federations of Societies for Surgery of the Hand, Budapest, Hungary. 13th-17th June.

■ Basic Microsurgical Techniques - Anastomosis of Vessels with Size Discrepancy, Video Session

Dr S Raja Sabapathy, 7th Biennial Meeting of the Indian Society for Reconstructive Microsurgery, Hyderabad, 3rd-4th July.

■ Technical Steps for Success in Major Replantations

Dr S Raja Sabapathy, 7th Biennial Meeting of the Indian Society for Reconstructive Microsurgery, Hyderabad, 3rd-4th July.

■ Scalp Replantation

■ Finger Tip Replantation

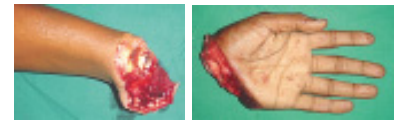
Dr Hari Venkatramani, 7th Biennial Meeting of the Indian Society for Reconstructive Microsurgery, Hyderabad, 3rd-4th July.

■ Major Replantation Experience

Dr S Raja Sabapathy, Asian Pacific Orthopaedic Association, Kuala Lumpur, Malaysia. 4th-10th September.

■ Technical Consideration and Functional Outcome of 20 Major Replantations

Dr S Raja Sabapathy, 5th Congress of the Asian Pacific Federation of Societies for Surgery of the Hand, Osaka, Japan. 12th-15th November.



Left Hand



Right Hand



1 Year after Surgery



Left Hand



Right Hand

22 yr old gentleman was assaulted resulting in total amputation of the left hand through the wrist and near total amputation of the right thumb with loss of blood supply to the thumb. Due to the nature of the injury there was some delay in his arrival to Ganga Hospital. Both sides were re-attached simultaneously by two teams of surgeons. The surgeries took 6 hours to complete and were done under bilateral regional anaesthesia. This technique again has been refined by Ganga Hospital Anaesthesiology team. He is now back to his job using both his hands.

■ **Causes of Failure in Microsurgical Replantation of the Hand**

Dr S Raja Sabapathy, 28th Annual Meeting of the Indian Society for Surgery of the Hand, Gangtok, Sikkim. 19th-21st November.

■ **Replantation and Revascularisation at Mid Palm Level**

Dr Hari Venkatramani, 28th Annual Meeting of the Indian Society for Surgery of the Hand, Gangtok, Sikkim. 19th-21st November.

■ **Distal Finger Tip Replantation without Skeletal Fixation**

Dr Hari Venkatramani, 28th Annual Meeting of the Indian Society for Surgery of the Hand, Gangtok, Sikkim. 19th-21st November.

2005

■ **Macro Replantation**

Dr S Raja Sabapathy, Invited Lecturer, Instructional Course in Hand Surgery of the British Society for Surgery of the Hand, Manchester, United Kingdom, 28th-29th January

■ **Distal Finger Tip Replantation without Skeletal Fixation**

Dr S Raja Sabapathy, 9th Asian Pacific Congress of the International Confederation for Plastic and Aesthetic Surgery, Mumbai, 19th-23rd March

■ **Introduction to Replantation Surgery**

Dr S Raja Sabapathy, CME of Indian Society for Surgery of the Hand, Dibrugarh, Assam, 24th April.

■ **Replantation Surgery at Ganga Hospital**

Dr Hari Venkatramani, PG Teaching Programme, Department of Plastic Surgery, Medical College and SSG Hospital, Vadodara, Gujarat. 26th-27th May.

■ **Major Replantation of the Upper Limb : Douglas Lamb Lecture**

Dr S Raja Sabapathy, Combined Meeting of the British Society for Surgery of the Hand and The British Society for Hand Therapist, London, United Kingdom, 2nd-4th November.

■ **Distal Upper Limb Replantation.**

Dr S Raja Sabapathy, Combined Meeting of the British Society for Surgery of the Hand and The British Society for Hand Therapists, London, United Kingdom, 2nd-4th November.

■ **Anatomical Basis, Technical Considerations and Outcome in Replantations and Revascularisation of Trans Metacarpal Crush Amputations**

Dr Hari Venkatramani, 40th Annual Meeting of the Association of Plastic Surgeons of India, New Delhi. 6th-10th November.

■ **Hand Therapy Management After Replantation**

Mr S Balaji, Ganga Hand Therapy Course 2005, Ganga Hospital Coimbatore, 19th December.



Trauma Reconstructive Surgery

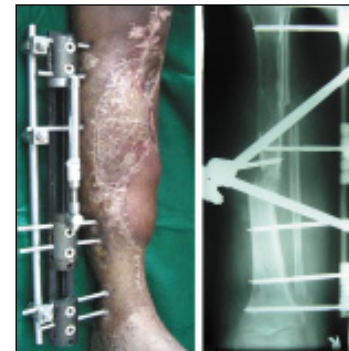
The department is continuously working to achieve success and patient satisfaction in the management of complex problems. The challenges we face in our system are multi faceted. So we believe it is crucial that we stay focused in designing systems and protocols that work a sustainable medical delivery system and an educational programme.

Lower Limb Reconstruction

The Unit caters to the needs of patients with major lower limb injuries with soft tissue loss and fractures associated with tissue loss. Good cooperation between the departments of Plastic Surgery, Orthopaedics, Anaesthesiology and Rehabilitation services help in obtaining good results in such injuries and prevents many limbs from being amputated.

Statistics

	2004	2005
Lower Limb Trauma		
Grade III B Fractures	57	93
Grade III C Fractures	7	5
Major Degloving Injuries Lower Limbs	2	2
SSG Lower Limb	163	177
Micro Surgical Free Flaps		
Latissimus Dorsi	18	27
Gracilis	42	53
Anterolateral Thigh Flap	1	
Free Fibula	2	4
Lateral Arm	1	1
Toe to Thumb	2	
Total	65	86
Other Lower Limb Flaps		
Sural Artery Flap	12	14
Fasciocutaneous Flap	75	73
Gastrocnemius Muscle Flap	16	24
Soleus Muscle Flap	2	1
Cross Leg Flaps	11	12
Lateral Supramalleolar Flap	11	2
Lateral Calcaneal Artery Flap	4	3
Abductor Hallucis Flap	1	
Extensor Digitorum Brevis Flap	1	3
Cross Thigh Flap		1
Adipo Fascial Flap		2



A 22 year old college student sustained Grade III B open fracture both bones right leg with soft tissue and bone loss following a fall from motor bike. He underwent debridement, LRS application, crossleg flap & bone transport. This concept of simultaneous bone transport and flap cover is a safe and effective method. It reduces hospitalization time and decreases the bone union time.

Awards and Recognitions

President of the Indian Society for Reconstructive Microsurgery

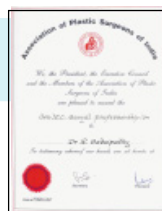
Dr S Raja Sabapathy took over the leadership of the National Association at the 7th Biennial Meeting of the Association held at Hyderabad on 3rd - 4th July 2004.



The Hyderabad meeting of ISRM 2004 – Seated on the dais are Dr R Khazanchi, Secretary ISRM, Prof R Venkataswami, Founder President ISRM, Dr Sudhakar Prasad, President ISRM, Dr S Raja Sabapathy, Vice President ISRM.

General Sanyal Visiting Professor of the Association of Plastic Surgeons of India – 2004 -2005.

Under this scheme Dr S Raja Sabapathy visited, lectured and conducted workshops in various places in the country.



Mathias Oration - Tamil Nadu Chapter of Association of Surgeons of India.

Dr. Raja Sapabathy delivered the oration on the topic “Trauma Reconstructive Surgery - The need of the hour”.

Dr. S Sadhasivam, President of the Tamil Nadu Chapter of ASI presenting the oration memento.



External Examiner for Hand Surgery Exit Examination – National University of Singapore - 2005

The Joint Committee on Specialist Training invited Dr S Raja Sabapathy to be the External Exit Examiner for the Hand Surgery Exit Examination on 12th Nov. 2005, at Yong Loo Lin School of Medicine, Singapore.



Related Publications - Trauma Reconstructive Surgery

Mckenzie JRW, Mac Lean G, Bharathi RR, Raja Sabapathy S. Tube Pedicle Flap in the Management of a Grade III C Lower Limb Injury. Accepted for publication in Journal of Plastic, Reconstructive & Aesthetic Surgery.

Chapter in Text Books

“Early Closure of Wounds in Open Tibial Fractures” in the book Recent Advances in Orthopaedics. Ed. Dr G S Kulkarni.

Studies in Progress

- Classification of foot and ankle defects and outcome of salvage
- Immediate Bone Transport with flap cover in combined bone and soft tissue loss



Microvascular Surgery Free Flap Surgery

A 43 year old lady while getting down from a bus slipped and the rear wheel ran over her right foot resulting in severe crush injury of the foot with extensive soft tissue loss.

She underwent staged reconstructions in the form of Microvascular Latissimus Dorsi Muscle Flap cover. She is back on her feet, walking as before and here she is shown with her daughter.

Free flaps continue to be used appropriately for the salvage of many mutilated limbs, particularly for lower limb defects. In the upper limb they are used selectively along with replantations and revascularizations and as functional muscle transfers.



Related Presentations - Trauma Reconstructive Surgery

2004

■ Salvage of Mutilated Limb Injuries and a Strategy for India - Guest Oration

Dr S Raja Sabapathy, 52nd Armed Forces Medical Conference, AFMC, Pune. 3rd - 6th February.

■ Coverage of Major Soft Tissue Defects of Foot and Ankle

Dr S Raja Sabapathy, CME Programme in Plastic Surgery, Armed Forces Medical College, Pune. 10th - 11th April.

■ Flap Cover to the Lower Limb

Dr S Raja Sabapathy, South Zone APSI, Bangalore. 15th-16th May.

■ Salvage of Mangled Extremities

'Quality Circle' Talk, Christian Medical College, Vellore. 28th Aug

■ Lessons learnt in the Management of Open Fractures

Dr S Raja Sabapathy, Guest Lecture, Dept of Orthopaedic Surgery, Christian Medical College, Vellore. 28th August.

■ Reconstruction of Major Defects of the Foot

■ Soft Tissue Cover in Open Fractures

Dr S Raja Sabapathy, Asian Pacific Orthopaedic Association, Kuala Lumpur, Malaysia. 4th-10th September.

■ Reconstruction in Neglected Limb Trauma - Principles and Advances - CME Lecutre

Dr S Raja Sabapathy, Annual Meeting, Association of Plastic Surgeons of India, Jaipur. 24th-27th November.

2005

■ Proposed Classification of Major Soft Tissue Defects around the Foot and Ankle and Technical aspects of Reconstruction

Dr S Raja Sabapathy, Asian Pacific Congress of IPRAS, Mumbai. 19th - 23rd March.

■ Limb Trauma -How to Improve the Outcome ?

Dr S Raja Sabapathy, CME in Trauma, Vinayaka Mission Hospital, Salem. 27th March.

■ Foot and Ankle Reconstruction

Dr Hari Venkatramani, Baroda Association of Plastic Surgeons, PG Teaching Programme, Dept of Plastic Surgery, SSG Hospital, Baroda. 26th -27th, May.

■ Demonstration of Gracilis Flaps

Dr S Raja Sabapathy, 3rd Workshop on Rapid Flap Harvest & Free Tissue Transfer and Interactive CME on Plastic Surgery, Nizam's Institute of Medical Sciences, Hyderabad. 10th-12th June.

■ Soft Tissue Cover in Open Fractures

Dr S Raja Sabapathy, Continuing Orthopaedic Education 2005, Hotel Residency, Coimbatore. 18th September.

■ Lower Limb Reconstruction-The Ganga Hospital Experience

Dr S Raja Sabapathy, Visiting Professor, University of Michigan, Ann Arbor USA, 28th-30th September.



30 year old clerical worker in Electricity board, AP, sustained amputation of his right thumb, middle and ring fingers in an accident. This left him disabled. Reconstruction of the thumb was done by transferring the great toe from his foot and custom made, colour matched silicone prosthesis were made for the middle and ring fingers at the Ganga Hospital Silicone Prosthetic Centre, run in collaboration with Otto Bock. Reconstruction has been both cosmetically and functionally satisfying to the patient.

Brachial Plexus Injury and Peripheral Nerve Surgery

Ganga Hospital which pioneered the growth of Trauma Reconstructive Surgery and Microsurgery in this region is proud to introduce yet another facility for the service of the public.

Inauguration of the Brachial Plexus and Peripheral Nerve Injury Clinic 8-12-2004

An exclusive clinic was started for the care of patients with Brachial Plexus Injury and complicated Peripheral Nerve Injuries. These patients require dedicated time and comprehensive care of surgeons, therapists and pain relief physicians. To provide this care, a clinic is conducted on the afternoon of first Wednesday of every month. 80 adult & 45 obstetric brachial plexus injury patients were registered since the inauguration of the clinic in 2004. 11 patients have been treated from abroad so far.

A brochure was published on the occasion and it is available at www.gangahospital.com.



The facility was inaugurated by Dr J G Shanmuganathan and Mrs Kanakavalli Shanmuganathan on 8th December 2004 at the Ganga Hospital auditorium.

Statistics (2004 & 2005)

Brachial Plexus Surgery	
Neurotization with Nerve Grafts	15
Spinal Accessory to Musculocutaneous	7
Oberlin's Transfer (Ulnar to Musculocutaneous)	9
OBPI Neurotisation	1
Median Nerve to Triceps	1
Free Functioning Gracilis Muscle Transfer	8
Trapezius Transfer	7
Teres Major (David Chuang's) Transfer	17
Shoulder Arthrodesis	1
Derotation Osteotomy	3
Peripheral Nerve Surgery	
Digital Nerve Repair	60
Median Nerve Repair	26
Ulnar Nerve Repair	23
Radial Nerve Repair	7
Facial Nerve Repair	1
Sciatic Nerve Repair	2
Posterior Tibial Nerve Repair	1
Nerve Grafting	
Digital Nerve	10
Median Nerve	12
Ulnar Nerve	5
Posterior Tibial Nerve	2
Vascularised Common Peroneal Nerve	1
Anterior Transposition of Ulnar Nerve	6
Neuroma Excision	8
Neurolysis	6



The plaque presented by Mr Raj Ragoowansi, London, UK and Mr Aamer Ullah, Leicester, UK who were visitors to the department during the inaugural function.



Awards and Recognitions

Brachial Plexus Surgery Group of India

In the inaugural meeting convened by Prof R Venkataswami, at Chennai between 29th Jan and 1st Feb 2004, Dr S Raja Sabapathy was elected as the founder Secretary of the Group and was nominated for another term in the 1st Biennial Meeting of Brachial Plexus Surgery Group of India held in New Delhi between 18th-21st Feb 2005 at Sir Ganga Ram Hospital, New Delhi.



Dr Hari moderating the panel discussion on problem cases 1st Biennial Meeting of BPSGI in New Delhi



The eminent panelists seen along with Prof R Venkatswami, the founder President of the Association.

Member, Editorial Board Journal of Brachial Plexus and Peripheral Nerve Injury

Dr S Raja Sabapathy was invited to participate as a member of the editorial board of this newly formed journal. He was also invited to participate as the Founder member of the International Society for Brachial Plexus and Peripheral Nerve Injury to be held at Houston, USA in March 2006.



Fig . 1

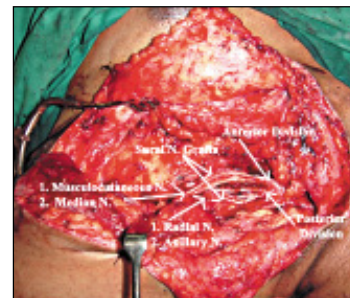


Fig . 2



Fig . 3

42 year old goldsmith sustained a gun shot injury on the left side of his neck. The injury resulted in fracture of clavicle with left sided brachial plexus paralysis. He was not able to lift his hand fully, bend his elbow or straighten his fingers. (Fig 1)

He underwent exploration and nerve grafting surgery. (Fig 2)

At the end of 18 months he had good recovery and was able to carry out all his day to day activities. (Fig 3)

Related Presentations

2004 & 2005

■ Brachial Plexus and Peripheral Nerve Injuries

Dr S Raja Sabapathy, 3rd Review Course in Hand Surgery, Ganga Hospital, Coimbatore. 2nd - 4th January

■ Brachial Plexus Injuries

Dr S Raja Sabapathy, GOACON – Annual Meeting of the Gujarat Orthopaedic Association. Diu. 27th - 29th February

■ Surgical Anatomy of Brachial Plexus

■ Spinal Accessory Neurotisation for Restoration of Elbow Flexion

■ Moderator : Panel Discussion on Problem Cases

Dr Hari Venkatramani, 2nd Biennial Meeting of Brachial Plexus Surgery Group of India. Sir Ganga Ram Hospital, New Delhi. 18th -21st February

■ “Adult Brachial Plexus Injury”

Dr Hari Venkatramani, Baroda Association of Plastic Surgeons, SSG Hospital Baroda, Baroda. 26th - 27th May.

■ Brachial Plexus Injuries

Dr Hari Venkatramani, Pre Congress Workshop in Hand Surgery, College of Surgeons of Sri Lanka. 17th & 18th August.

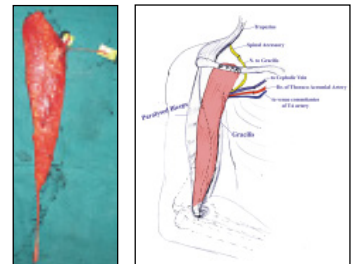
■ “Adult Brachial Plexus Injury” - Dr Hari Venkatramani

■ “Brachial Plexus – Assessment & Therapy” - Mr S Balaji
Hand Therapy Course - 2005, Ganga Hospital, 19th December.

Free Functioning Muscle Transfer



Right hand global brachial plexus paralysis (4 yrs duration)



Harvested gracilis muscle along with its blood supply and nerve. The muscle anchored into the clavicle and its nerve attached to spinal accessory nerve



He is able to bend his elbow against gravity at the end of 9 months.

Studies in Progress

- Outcome of Neurotisations in Adult Brachial Plexus Surgery
- Effectiveness of Pregabalin in pain relief in traumatic Brachial Plexus injury patient



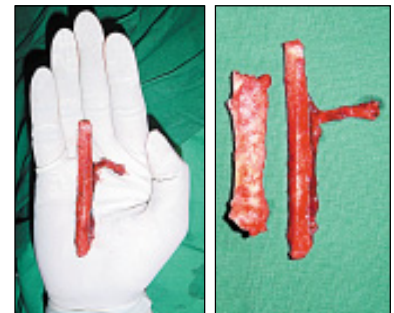
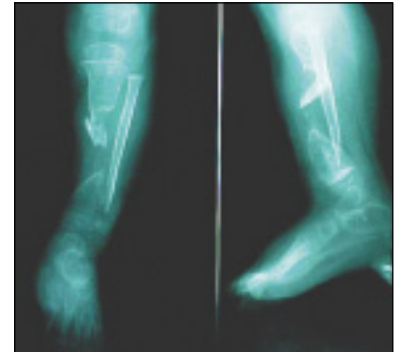
Congenital Deformity Correction

A child born with a deformity produces a tremendous negative impact on the parents, family and in the society. Some cause only cosmetic problems while many may cause considerable functional disability. Fortunately Plastic Surgical solutions exist for most of them. Making the surgery available to the child in the appropriate time is the challenge.

At Ganga Hospital no child with a deformity is refused surgery for economic reasons as we believe that surgery needs to be done at the right time before the child develops psychological and functional disturbance.

Statistics

Congenital Hand Problems	2004	2005
Free Fibula for Pseudarthrosis of Tibia	2	4
Radial Club Hand - Radialisation		3
Pollicisation	7	5
Hypoplastic Thumb - Ligament Reconstruction & opponensplasty		2
Congenital Trigger Thumb, Finger Release	7	12
Macroductyly		2
Constriction Ring Syndrome	1	1
Syndactyly Separation	3	8
Thumb Duplication	2	
Cleft Hand	2	
Excision of Polydactyly	2	5
Wind Blown Hand	1	
Camptodactyly	2	2
Symbrachydactyly	2	
Free toe Phalanx Transfer		1



This 6 year old girl was not able to write using her right hand as she was born with a thumb which had no useful function. In the position of thumb there is only a small thumb like structure hanging on a small pedicle (Nubbin). She underwent surgical correction in the form of Pollicisation which is a procedure in which the index finger is transferred to the position of the thumb to achieve best possible hand function. The result of this surgery is extremely satisfying. We now do this surgery at around 1 year of age.



Baby Sridhar was born with pseudarthrosis of tibia (a disease where the major leg bone is not well formed). Other options like Illizarov failed and the gap in the bone was successfully reconstructed with Microsurgical transfer of fibula from the other leg. Now he is like any other normal child.

Faciomaxillary Surgery

The Department is active in the field of Faciomaxillary surgery. 70% of the work involves major faciomaxillary trauma with fractures. Considerable elective surgeries including cleft lip repair, ear reconstruction, post cancer ablation reconstruction are done. Good collaboration with neurosurgeons and dental surgeons exists to deliver the optimum care to the patients.

Faciomaxillary Trauma	2004	2005
Panfacial Fracture ORIF	10	1
Nasal Bone Fracture Elevation	24	22
Zygoma Fracture Elevation / ORIF	31	35
Maxilla Fracture		6
Mandible Fracture IMF / ORIF	26	31
Le Fort II Fracture		4
Dentoalveolar Fracture Wiring	1	1
Frontal Bone Elevation	4	6
Mandible Plate Removal		3
Septoplasty	2	1
Orbital Blow Out Fracture		1
Evisceration of Eye	1	3



Dr Ravindra Bharathi, Consultant Plastic Surgeon has a special interest in Faciomaxillary surgery. He went for advanced training in this field to Chang Gung Hospital, Taiwan in January 2004 for 3 weeks.



Reconstruction of large mandibular defects with Microsurgery

35 year old lady had a mandibular tumour. Conventional bone graft failed and we reconstructed her with a microsurgical free fibular graft.



Awards & Recognitions

Dr R Ravindra Bharathi was awarded the Ethicon Cosmetic Surgery Fellowship of the Association of Plastic Surgeons of India for the year 2004.

He is receiving the Fellowship Award from Smt. Pratibha Patil, Governor of Rajasthan at Jaipur APSICON 2004





Ganga Microsurgical Training Institute

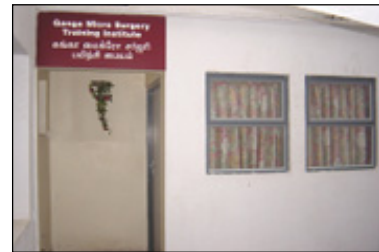
The microsurgery lab which was inaugurated in 2000, continues to be popular with the trainees as well as practicing surgeons. In 5 cities, the first replants and free flaps were done by the trainees of the lab. In the years 2004 and 2005, 30 courses were organized and 60 surgeons underwent training in Microsurgical Techniques.



Mr Ravi,
Microsurgery Technician
assisting a trainee.

“The facilities in the Microlab are excellent. I would like to recommend this training to every young Plastic Surgeon of our state. This type of training is essential to every one who wants to practice Microsurgery. Thanks to Ganga Team for making it possible.”

Prof Saramma Varghese, Prof of Plastic Surgery, Kozhikode Medical College



“Micro Course has given a tremendous boost to my confidence to anastomose smallest caliber vessels. My next visit to Ganga Hospital will find a radical change in my technique.”

Dr Jiten Kulkarni, Consultant Plastic Surgeon, Aurangabad.



Dr Ramakant Bembde, Consultant Plastic Surgeon from Aurangabad who under went Microsurgical training in September 2004, went on to perform the first Major Replantation of Aurangabad

Publication of “The Practice Manual for Microvascular Surgery”.

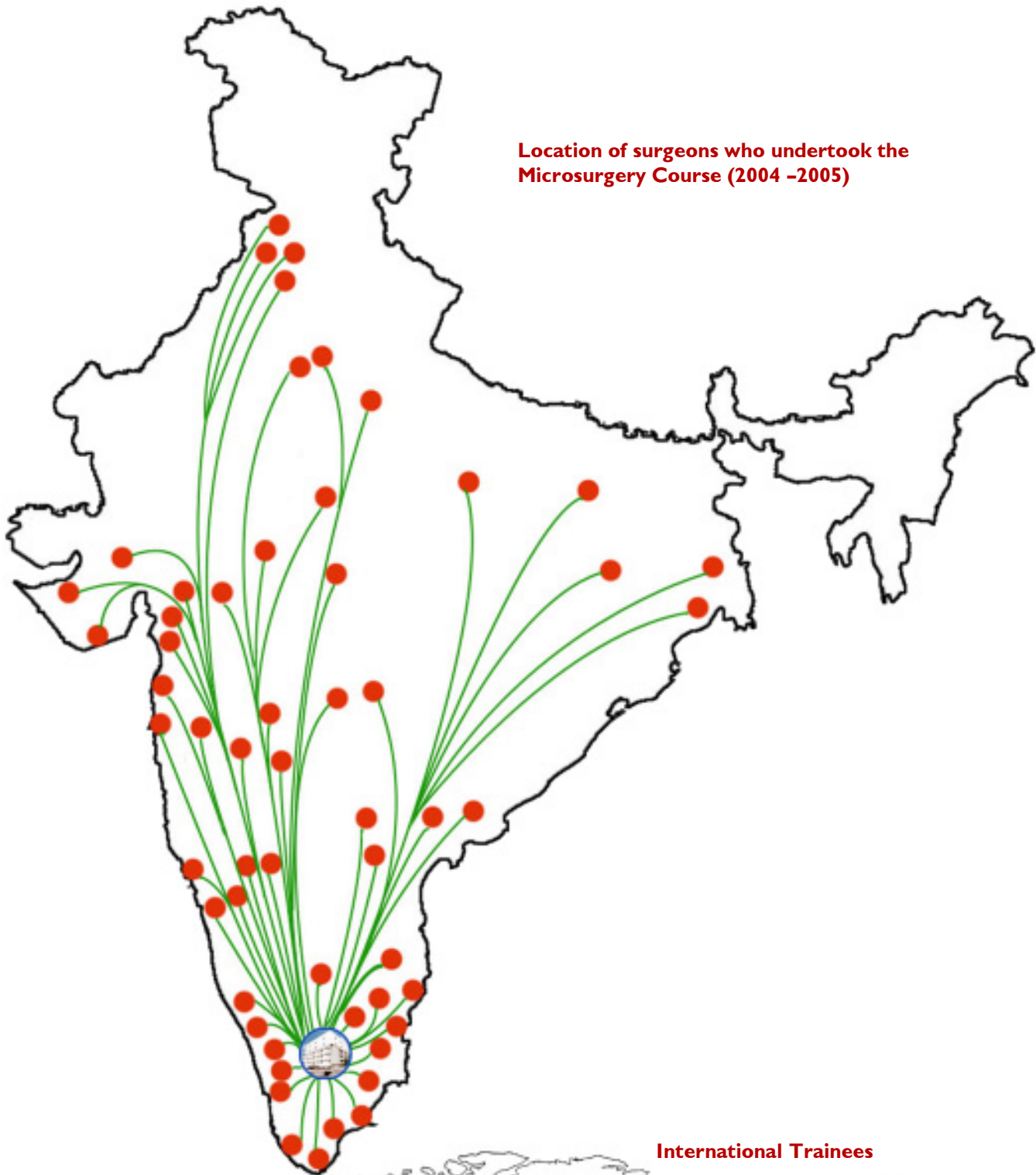


The Author with the picture of him writing the first edition of the book in 1977 on one hand and the latest edition that was published at Coimbatore in the other hand.

The manual by Dr Robert Acland has served as the Bible for generations of microsurgeons in the beginning of their career. Dr Acland generously turned over the Indian Copyright of the book to the Indian Society for Surgery of the Hand. The Department was involved in publishing the manual on behalf of ISSH. We are proud to be part of the endeavor in making this classic available to every one.



**Location of surgeons who undertook the
Microsurgery Course (2004 -2005)**



International Trainees



A Resource Centre which is open all the time for anyone willing to be trained.



Bruce Bailey Fellowship in Hand and Microsurgery

This fellowship was setup by Ganga Hospital in the memory of Mr Bruce Bailey, Senior Consultant in Plastic Surgery at Stoke Mandville hospital, UK. He was responsible for training many young surgeons from India including Dr S Raja Sabapathy. This fellowship enables a Senior British Plastic Surgical Trainee to spend 6 to 8 weeks in Ganga Hospital. During this period the trainee is also sponsored to attend either the Annual Plastic Surgery or Hand Surgery meeting. The fellowship is recognized and announced in the newsletters of British Society for Surgery of the Hand (BSSH) and British Association Plastic Surgeons (BAPS)



Mr Bruce Bailey and his team in 1988 at Stoke Mandville when Dr Raja Sabapathy was working as a Registrar in Plastic Surgery Department



“..I can honestly say that I have never worked in a unit like this before. Drive, Devotion and Dedication are the hall marks by which this unit has acquired incredible success and recognition throughout the world. It has certainly given me a benchmark to which I can aspire to and hopefully build towards. .”

Mr. Raj Ragoowansi MSc FRCS

Specialist Registrar, Queen Victoria Hospital, London,
United Kingdom

Bruce Bailey Fellow - 2004

During his stay Mr Raj Ragoowansi did a retrospective review of the outcome of patients who had undergone major foot & ankle reconstruction

“..It has been a tremendously educational experience not just for the surgical techniques but also for the whole ethos of care and service to a never ending delivery of trauma patients. There are many lessons for UK to learn here and I hope that the flow of friendship and knowledge continues from Ganga Hospital to rest of the world. .”

Dr Patrick Gillespie MA, BM BCh, FRCS (Plast),
Specialist Registrar, Plastic Surgery Dept of Plastic Surgery,
Addenbrookes Hospital, Cambridge, United Kingdom
Bruce Bailey Fellow - 2005



Mr Patrick Gillespie did a long term outcome study of Cross Finger Flaps and developed a scale for scar assessment in finger reconstructions.



Academic Courses



Post Doctoral Super Speciality Fellowships in Hand and Microsurgery of National Board of Examination, New Delhi.

In the year 2004, the Department of Plastic, Hand and Microsurgery was recognised by National Board of Examination, New Delhi for training in Hand & Microsurgery. This is a 2 year programme and the candidates are selected by an All India entrance examination conducted by the National Board. The fellowship is run on a curriculum which covers the entire spectrum of Hand Surgery and Microsurgery.

Dr Saranjeet Singh (2004-2006) is our first Hand and Microsurgery fellow of NBE.
Thesis Topic : Functional Outcome of Complex Injuries to the Forearm.



Dr Saranjeet Singh

Dr Ashwath Acharya (2005-2007)

Thesis Topic : Clinical Evaluation of Mangled Elbow and Side Swipe Injury.



Dr Ashwath Acharya



Dr Anuradha & Dr Sanjai

Diplomate in National Board (DNB) - Plastic Surgery

The Department of Plastic Surgery was recognized for super speciality training in Plastic Surgery by NBE in 2005. Every year two candidates are selected. The candidates are taken through a structured training programme and it is our aim that our programme must become one of the top preferred by the trainees.

Dr Sanjai Ramkumar

Thesis Topic : Outcome analysis of Major Foot and Ankle Reconstruction.

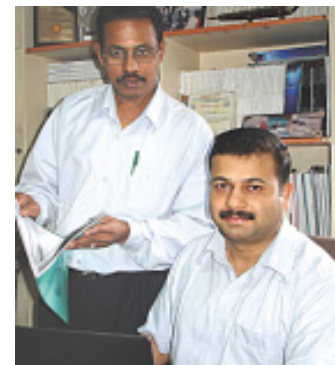
Dr Anuradha Jagdish Patil

Thesis Topic : Management of Composite Tissue Loss in Lower Limb

Documentation Department

The Department is well supported with efficient staff and is headed by Mr R Santhosh Kumar. More than 19,000 photographs and over 21,800 photographs were organized and archived in the year 2004 and 2005 respectively. All patients are given the injury photographs while they are in the hospital.

A Documentation software "Ganga Pac" has been developed by Mr Santhosh which takes care of all the documentation needs.



Mr Sasidharan & Mr Santhosh



Mrs Nandhini, Mrs Mahalakshmi & Mrs Santhanalakshmi

Secretarial Support

Mrs Mahalakshmi & Ms Santhanalakshmi are the two efficient secretaries of the Department. They play a significant role in the day to day running of the department and in organizing major conferences and courses and are ably supported by Mr Sasidharan and Mrs Nandhini



Ganga Hospital - Johnson & Johnson Visiting Professor 2005



Prof Teoh lectured for 5 hours on Sunday the 14th of May 2005 enlightening a packed audience of hand surgeons and therapists

A new chapter in our continuing efforts for the promotion of Hand and Microsurgery was made in the year 2005 by the starting of the Visiting Professorship programme. It is a joint effort of the Dept of Plastic, Hand and Reconstructive Microsurgery and the Ethicon division of Johnson & Johnson. A hand surgeon of international repute is invited to spend a week in the department. The visiting professor lectures and takes part in all the academic and clinical activities of the department. This interaction results in cross fertilization of ideas for the benefit of patients and builds bridges between departments, hand surgery communities and nations.



Prof Teoh giving technical tips in the theatre to eager trainees

The first Visiting Professor was Prof Lam Chuan Teoh, Senior Consultant Hand Surgeon, Singapore General Hospital, Singapore. It was a virtual academic feast for all who were with him from 14th-21st May 2005.

“It is simply amazing !!! Unbelievable !!! My short visit in 1997 did not allow me to fathom the intensity of your work. After one week this time, I have a better appreciation of your work. Certainly there will be a lot more that I am not able to realize yet. Of what I know about Ganga Hospital and your work has impressed me with no other comparison. The organization in Ganga is the most excellent and team work most impressive. The willingness of every staff to give their best to patient care is just that wonderful. The amount of work is astronomical and the range of cases and severity of injury is just out of this world. I admire all the things you are doing and making everything happen.

- Prof Lam Chuan Teoh



Doing a clinic on congenital hands.



Seeking blessings from Pujya Swami Dayananda Saraswathi and Swamini Pramananda at Ananikatti ashram.

Prof Michael Tonkin of Royal Northshore Hospital, Sydney, Australia will be visiting us as the Ganga Hospital - Johnson & Johnson Visiting Professor for the year 2006





Ganga Hospital - Johnson & Johnson Fellowship in Hand & Microsurgery

Ganga Hospital in collaboration with Johnson & Johnson started this fellowship in the year 2002. Every year two fellowships are awarded. The selected candidates spend a period of 8 weeks at Ganga Hospital. During this period they take part in all the clinical and academic activities of the department. They also undertake the week long microsurgery lab course at the Ganga Microsurgery Training Institute.



2004

▶ **Dr. Yuri Agnel Roque Dias - Amborcar**

MS, DNB(Plastic), DNB(General Surg), M.Ch
Goa Medical College, GOA

“..this fellowship is an important milestone in my career. The excellent surgical work, being with Dr Sabapathy and his team was training in itself. An enriching experience..”

Dr. Thilak S. Jepagnanam ◀

D. Orth, MS Orth

Lecturer, Department of Orthopaedics, Christian Medical College, Vellore

“..the fellowship in Ganga was most impressive. The micro course was extremely good, especially the tapes. The chance to interact with a world class group of surgeons and anaesthetist was awe inspiring. As for Dr Raja Sabapathy I learnt so much from you, sir, whether it was surgery or philosophy I will always be grateful..”



2004



2005

▶ **Dr. Prashant Tyagi**

MS(Gen), M.Ch(Plast)
Consultant Plastic Surgeon, Haryana

“..one of the best part of my fellowship programme was the week long Microsurgery Training Course which has helped improving my microsurgical skills. Prof Teoh' s visit enlightened me on variety of hand surgery topics. The whole idea of spending one week with the champion in this field is incredible.“

Dr Syed Faizal ◀

MS(Gen), M.Ch(Plast)

Consultant Plastic Surgeon, Kolkata

“..My fellowship to Ganga Hospital has been an eye opener for me. I only wish I had come ten years earlier. I have a lot of take home messages. The warmth of Ganga Hospital staff right from the most senior person to the junior most will be one of my most treasured memories. I thank Johnson & Johnson for making this possible..“



2005



Ganga Hospital - Carl Zeiss Fellowship in Hand & Microsurgery



In the year 2003 Ganga Hospital in collaboration with Carl Zeiss, the pioneers in operating microscopes, started this fellowship programme. Each year two young Plastic Surgeons are awarded this fellowship. Since its inception the number of applicants for this fellowship is on the increase. This fellowship starts on January 1st every year and allows the trainees to spend 8 weeks in the department of Plastic & Reconstructive Microsurgery, Ganga Hospital. Each fellowship is worth Rs. 50,000 making it the most valued fellowship in this field in the country.



2004

▶ “My fellowship at Ganga Hospital was an important part of my development as a Hand and Microsurgeon. There I learnt different surgical techniques to various hand and reconstructive problems, as well as how the team at Ganga maximizes their use of resources. Equally important was the friendships made with the Indian Hand Surgery community, which I am sure will last throughout my career in hand surgery.”

Dr. Alphonsus Chong

Department of Hand and Reconstructive Microsurgery,
National University Hospital, Singapore

“..I am impressed by the number of people being covered by Ganga Hospital especially from low income group. I don't know how the system works, but it reinforces my faith in God, because the care the poor people are getting is world class..”

Dr. T. Ayyappan MS MCh DNB

Associate Professor, Department of Burns and Plastic Surgery,
BJ Medical College and Civil Hospital, Ahmedabad



2004

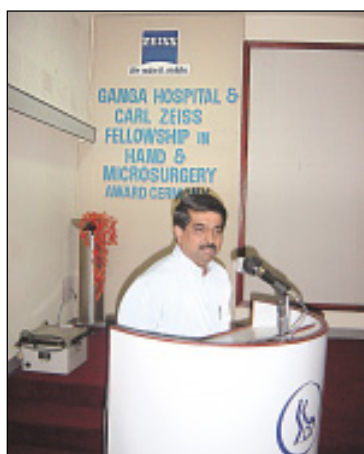


2005

▶ “..Wonderful overall experience– full credit for Team Work. Learnt many aspects of patient management and administration and would recommend Ganga Hospital for any body inclined in learning these aspects. Pleasurable stay that included learning about culture and life in India. Full marks for friendliness to foreigners..”

Dr Dammika Abeywickrama Dissanayake MS

Plastic Surgeon, National Hospital of Sri Lanka, Colombo, Sri Lanka.



Mr Ven Raman, MD Carl Zeiss, South East Asia addressing during the fellowship award ceremony.



2004 awardees with AVM Dr Amaresh, Dean, GKNM Hospital (4th from L), Dr R Jayakumar, Plastic Surgeon, Specialist's Hospital, Kochi (5th from L), Mr Ven Raman (3rd from R) and the Ganga team.

Department of Anesthesiology

The skills, dedication and the efforts of our Anaesthesiologists has been vital for the growth of the Institution. They made it possible to introduce many protocols in trauma care suitable for our society. Dr Bhat has led the team in refining Regional Anaesthesia Techniques for consistent success. All major trauma patients are directly received by anaesthesiologists and they continue to provide peri operative and post operative pain relief. On Arrival Block, Combined Brachial Block and Spinal Aneasthesia, Bilateral Brachial Blocks are some of the techniques which have been popularized by the department.

Statistics

Type of Anaesthesia	2004	2005
Brachial Blocks	1309	1729
Spinal Anaesthesia	690	813
Combined Spinal Epidural	58	66
Combined Brachial block + Spinal	67	89
General Anaesthesia	325	397
Epidural Anaesthesia	15	19
Bilateral brachial blocks	10	18
Total	2474	3131



The concept of “On Arrival Block”

This is a term coined by us for the protocol of our Anaesthesiologists giving Brachial Blocks to patients who have sustained major injury to the upper limb on their arrival to the hospital even before the dressings are opened. The immediate pain relief obtained helps in better assessment of the injury, obtain radiographs without overlapping bones and gain confidence of the patient and relatives. This technique and the availability of dedicated operating theatre facilitate taking up these patients for surgery almost immediately.

Bilateral Blocks

By adjusting the volume and selecting the appropriate local anaesthetic agents, brachial plexus blockade has been used for simultaneous surgery in both upper limbs. Here a patient is shown undergoing bilateral hand replantation with brachial plexus blocks given in a sequential manner. He had supra clavicular block on one side and axillary block on the other side and both hands were successfully rejoined in 6 hours of surgical time. Protocols have been formalized for the timing of the block on each side along with coordination of the surgical steps.





Blocks in Special Situations



▶ Children from the age of 1 year undergo regional block for hand surgery. Here a 4 year old child is shown being given a regional block for the release of her stuck finger in a mini *Idly* plate.



◀ The 'On Arrival Block' concept has been extended to provide immediate pain relief for major crush injuries of the legs, by providing combined peripheral nerve blocks. This has been found useful if for some reason the patient cannot be taken up for surgery immediately.



▶ Regional Anaesthesia has been a boon for operating on patients with severe co morbid factors. Here a morbidly obese patient who cannot even lie down is being given a regional block in a sitting position for surgery for fracture of both bones of the forearm, with the Anesthetist standing on the operating table.

Centre for Regional Anaesthesia Techniques

The consistent success rate of regional anaesthesia techniques and the judicious combination of various blocks has resulted in about 80 % of the surgeries of the Plastic, Hand and Microsurgery Department being carried out exclusively under regional anaesthesia. This has resulted in easier patient care and has helped in reducing the cost of care to the patient.



The B Braun Fellowship in Regional Anaesthesia at Ganga Hospital

The Aesculap Academy of the B Braun Company sponsors anaesthesiologists from different parts of India and nearby countries for a week of intensive training in the department. This was started in 2005.

Publications - Anaesthesiology

Ravindra Bhat V, Venkateswaran G. A secure method of Nasotracheal Tube Fixation Using an Infant Feeding Tube. *Anaesth Analg* 2004; 99:1352-1354.



A well secured endotracheal tube is very essential for safe anaesthesia. In maxillofacial surgeries, providing secure fixations of the naso tracheal tube has always been a problem. In this technique, we have used an infant feeding tube that goes around the nasal septum for fixation of the tube. This method of fixation does not hinder surgical access and is well tolerated by the patient.

Presentations - Anaesthesiology

■ Modes of Mechanical Ventilation

Dr V Ravindra Bhat
Indian Society for Critical Care Medicine,
Coimbatore. 17th July 2004.

■ Improving Outcomes in Trauma

Dr V Ravindra Bhat
CME on Trauma, Vinayaka Mission Hospital,
Salem. 27th March 2005.

■ Pre Hospital Care in Neuro Trauma Patients

Dr V Ravindra Bhat
Neuro Trauma Conference, Fortis Hospital,
New Delhi, 7th May 2005.

■ Principles in Resuscitation in Major Trauma

Dr V Ravindra Bhat
23rd Continuing Orthopaedic Education Course
2005, Coimbatore. 15th-18th September 2005.

■ Trauma Anaesthesia

Dr V Ravindra Bhat
National Conference of International Trauma
Anaesthesia and Critical Care Society, Chennai,
22nd October 2005.

■ Trauma Team - A Surgeon's Perspective

Dr S Raja Sabapathy
National Conference of International Trauma
Anaesthesia and Critical Care Society, Chennai,
22nd October 2005.

Current Research Projects

- Serum Lactate Level as a Prognosticating indicator in major injuries.
- Repeat Subarachnoid Blocks

VISITORS TO THE DEPARTMENT



Dr Bhat and Dr Annemarie B Thomsen

'.. I am very impressed by the work you do here and my experiences at Ganga Hospital has certainly put work and my life into perspective'

Dr Annemarie B Thomsen, MD, PhD
Consultant Anaesthesiologist &
Director of Trauma
Trauma Centre, Rigshospitaet
Copenhagen University Hospital, Denmark

Dr Jigisha P. Sachde, Jamnagar

Dr Smitha Usgaocar, Goa

Dr Milan Shah, Mumbai

Dr Naina Kulkarni, Nashik

Dr Kannan, Madurai



Department of Physiotherapy, Hand Therapy & Occupational Therapy

We are glad that we are supported by a good, committed and enthusiastic Therapy department. The department also has in-house splint making capacity. The department has 3 Therapists, 2 Occupational Therapists and 4 Senior internees and 1 Orthotist and Prosthetist with two assistants.

Hand Therapy Statistics

Patient Statistics

Condition	2004	2005
Flexor Tendon Repair	57	52
Extensor Tendon Repair	41	41
Replantations	26	30
Tendon Transfer	25	37
Hand Fractures	352	434
Compression Garments	2384	3082
Hand Splints	252	316
Walkers	474	676
Crutches	273	492

Trainees Statistics

The trainees from various Physiotherapy colleges choose this centre for their clinical posting during their student years and for their internship posting for completion of their training.

Trainee Status	2004	2005
Students (Clinical Posting)	16	13
Internship	43	40

Educational Activities

3rd Review Course in Hand Surgery

The 3rd Review Course in Hand Surgery for Hand Surgeons and Hand Therapist was conducted by Ganga Hospital in January 2004 with eminent international faculty.

Ms Susane Carigianis, Hand Therapist from Adelaide and therapists of Ganga Hospital conducted scientific sessions. In addition Ms Carigianis conducted a well appreciated workshop for making hand splints. 25 therapists 100 hand surgeons attended the meeting.



Dr Edward T Mah, Adelaide, Mr Balaji, Chief Hand Therapist, Ganga Hospital and Ms Suzanne Carigianis, Senior Hand Therapist, Adelaide.

3rd Review Course in Hand Surgery - January 2004



Hand splint workshop in progress.

Ganga Hand Therapy Course - December 2005

An exclusive Hand Therapy course addressed by senior Hand Surgeons and Therapists of India was conducted on 18th December 2005.

145 therapists participated.



Dr Bhaskarananda Kumar, President, Indian Society for Surgery of the Hand, inaugurating the meeting



Dr Chandraprakasm, Past Secretary, Indian Society for Surgery of the Hand, giving away prizes to the winners of the quiz competition for the therapists.



The Therapy Department

Sitting (L-R) :
K H Abbas, GS Balachandaran,
S Balaji, P Issac, J Rajesh

Standing (L-R) :
Ramakrishnan, Srinath, Anitha,
Deepa, Suchitra, Abdul Waheed.

Presentations

■ Outcome of Emergency Proximal Row Carpectomy

Mr S Balaji, 29th Annual Conference of Indian Society for Surgery of the Hand, Kochi, Kerala. 26th-28th August, 2005.

■ Hand Therapy Management in Flexor Tendon Injuries

■ Hand Therapy Management in Major Hand Replantation

■ Hand Therapy Management in Hand Fractures

■ Brachial Plexus - Assessment & Therapy

Mr S Balaji, Hand Therapy Course, Ganga Hospital, 19th December, 2005.

■ Shoulder Rehabilitation

Mr G S Balachandaran, Hand Therapy Course, Ganga Hospital, 19th December, 2005.

■ Hand Therapy Management in Extensor Tendon Repair

Mr G A Abdul Waheed, Hand Therapy Course, Ganga Hospital, 19th December, 2005.

■ Therapy After Tendon Transfers

Ms Meenu, Hand Therapy Course, Ganga Hospital, 19th December, 2005.



Ganga Hospital Silicone Prosthetics Centre

The years 2004 & 2005 saw good growth in the Ganga Hospital Silicone Prosthetics Centre. This facility which manufactures high quality cosmetic fingers, hand, feet is a result of the association between Otto Bock Health Care, Germany and Ganga Hospital. It is now possible to produce prosthesis which closely match the shape and colour of the normal fingers. Even acrylic nails are available, which makes it possible to apply different colours of nail polish on the prosthesis finger.



A young girl who lost her three fingers in an industrial accident is using her right hand with silicone prosthesis which not only gives good cosmetic appearance but also is passively functional.

Partial hand prosthesis fitted to a patient with amputation at mid palm level



Foot prosthesis for a patient with skin grafted amputation stump. This prosthesis is functionally very useful and prevents repeated breakdown of grafted area.



A person with partial hand prosthesis on the right side. This prosthesis helps increase his functional capability.

Statistics

Year	Fingers	Partial Hand	Partial Foot
2004	36	6	8
2005	39	13	13

Ganga Silicone Prosthetics Centre

67, R.R. Layout, R.S. Puram

Coimbatore - 641 002

Phone : 0422 - 2541777

Email : information@indiaottobock.com

Community Outreach Programmes

A strong sense of social responsibility is central to our core values and beliefs. It is our philosophy that no patient who deserves our care and service is denied for the sake of financial considerations.

Help for the Hands in Need Project

This project enables poor patients who deserve complicated hand surgical procedures to obtain our services at whatever money they could afford. This has been made possible by a matching grant project of Rotary International by the collaboration of Rotary Clubs of Coimbatore Metropolis and Pontlanfraith of Wales, UK and Ganga Hospital.

Deserving patients are identified and the Rotary Project contributes Rs.2,000/- for minor surgeries and Rs.6,000/- for major procedures. The Hospital subsidises beyond whatever the patient can afford. Surgeries range from management of hand injuries in poor industrial workers to children with congenital anomalies and cerebral palsy.



Lend a hand - The logo for the Rotary year 2004-2005.

This project literally lent a hand to 150 deserving patients. The hospital contributed Rs. 3,64,690 in 2004 and Rs. 6,88,715 in 2005 towards the project.



The unstable wrist in a spastic child has been stabilised. It makes the hand more functional as well as cosmetically acceptable.



11 month old child suffered accidental electrical burns to her right thumb and index finger. The child had flap cover which prevented the thumb and index finger from amputation. This was one of the 150 cases done under this project.

Saving Hands - Preventing deformity and disability.

**Giving back to the society - some distance has been covered.
We intend to do more in the coming years.**



For the Sake of Honour Award



'For the Sake of Honour Award' from Rotary Club of Coimbatore Metropolis being given by Padma Vibushan Dr MS Valiathan in the presence of Rtn. Pres. Gurdeep Singh Anand and Rtn. Ramkumar Ragupathy on 5th April 2005.

Ganga Hospital - St. John Ambulance First Aid Centres - Tirupur

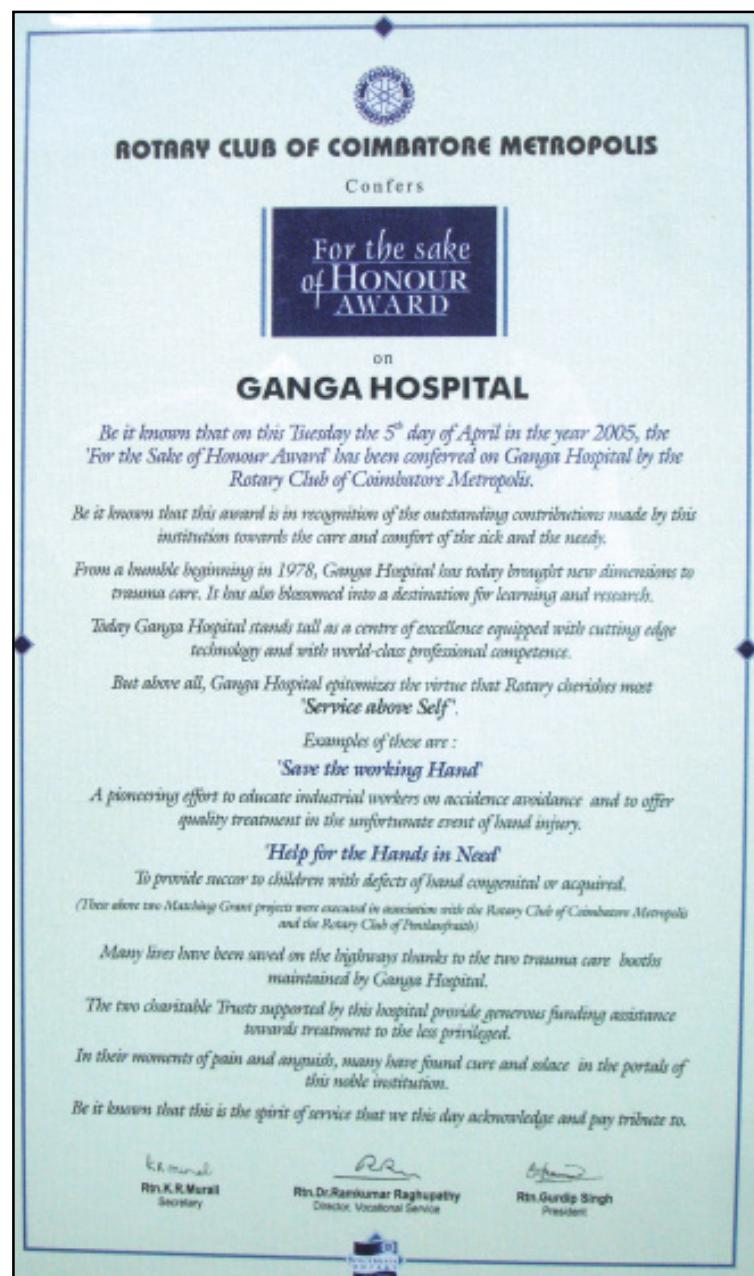
Ganga Hospital in association with St. Johns Ambulance Association has been rendering free first aid care to accident victims in Tirupur. Since its inception 41500 patients have been attended of which 20800 were in 2004 & 2005. In appreciation of the free services rendered by Ganga Hospital at St Johns Ambulance centre, Ganga Hospital received a special award from Mr Surjit Singh Barnala, Governor of Tamilnadu in 2005.



Ganga Hospital - Rotary Accident Helpline Booths

In collaboration with Rotary International District 3200, Ganga Hospital maintains booths at Mavuthampatty and Peramanallur. Each booth is manned by 1 para medical staff and ambulance facility is available round the clock. These booths cater to the accidents happening on the National Highways. All victims are provided immediate first aid at the booth and free transportation to the appropriate hospital. Over 400 patients were rendered assistance in the year 2004 & 2005.

The citation of the "For the Sake of Honour Award"





Ganga Accident Insurance Scheme

“GAINS” is a new concept in accident care. Ganga Hospital in association with New India Assurance Company is running the scheme successfully for the past two years. This is a specially designed comprehensive accident insurance scheme covering medical expenses for the treatment of injuries sustained in any accident. All accidents such as road traffic, industrial and even those occurring at home are covered. Every member is given a photo identity card carrying his personal details and Ganga Hospital contact numbers which is very useful at the time of emergency.

The year 2004 and 2005 saw a good growth in the number of people insured. At the end of 2005 the number stands at 30000. This Insurance is a boon to small scale industries and self-employed people, manual workers, as it makes quality treatment available at a very nominal price. A person can get insured by paying a premium of Rs.320/- per year for a cover of Rs.1,00,000/- (Rupees one Lakh only) of medical expenses.

Statistics

Year	Patients Treated		Total	Fresh Members
	In Patient	Out Patient		
2004	43	205	248	4603
2005	295	540	835	11652



The right index finger of a 20 year old man suffered near total amputation while at work. The finger was revascularised, all the structures repaired and he went back to his original work. GAINS scheme helped him to avail quality care and look forward to work again.

Ganga Hospital Blood Bank

The starting of the blood bank services has helped us to improve the services to acute accident victims. The blood bank has recently been conferred the Regional Blood Bank Status. 4130 units of blood were delivered in 2004 and 2005.



Mr M Krishnan, Managing Director, Sri Krishna Sweets, addressing the gathering during the Blood Donation Week (1st-7th Oct 2005)

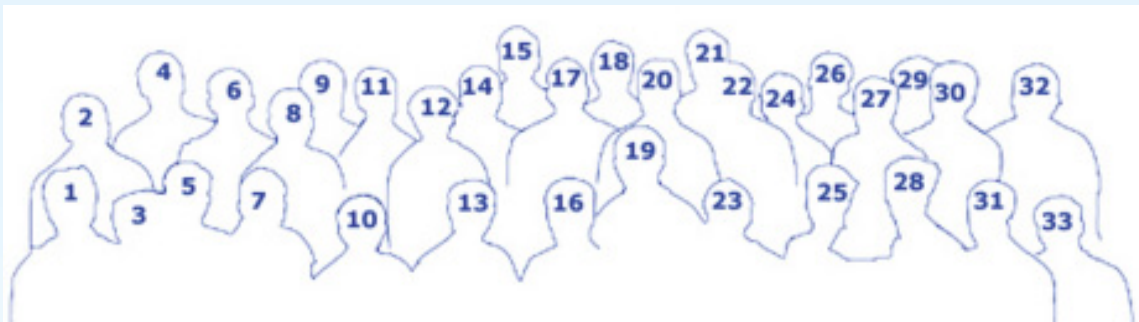
Visitors to the Department 2004 & 2005

TITLE	NAME	DESIGNATION	PLACE	DURATION
2004				
Dr	Pankaj Ahire	Asst. Prof. LTMMC	Sion, Mumbai	29.12.03 - 02.01.04
Dr	Annemarie Bondegaard Thomsen	Director of Trauma, Copenhgen University Hospital	Denmark	01.01.04 - 05.01.04
Dr	Neils Thomson	Hand Surgeon, Malmo	Sweden	01.01.04 - 05.01.04
Dr	Edward T Mah	Director, Ortho & Trauma, CMHS, Adelaide	Australia	01.01.04 - 05.01.04
Ms	Sue Caragianis	Hand Therapist, Adelaide	Australia	01.01.04 - 05.01.04
Dr	Rajeev MA	MCh Plastic Surgery Trainee	Kozhikode	05.01.04 - 09.01.04
Dr	Md. Iqbal Qari	Assistant Professor, Dept of Orthopaedics, Dhaka Medical Hospital	Bangladesh	09.01.04 - 12.01.04
Dr	Jiten Kulkarni	Consultant Plastic Surgeon	Aurangabad	01.01.04 - 25.01.04
Dr	Bikram Prasad Shrestha	Dept of Orthopaedics, BP Koirala Institute of Health Sciences	Nepal	01.12.03 - 27.01.04
Dr	Vitrag D Shah	Plastic Surgeon	Surat	23.01.04 - 29.01.04
Dr	Saramma Varughese	Professor of Plastic Surgery, Calicut Medical College	Kozhikode	16.02.04 - 20.02.04
Dr	Jimmy Mathew	Mch Trainee in Plastic Surgery	Kozhikode	16.02.04 - 20.02.04
Dr	Ayyappan T	Associate Professor, BJ Medical College & Civil Hospital	Ahmedabad	01.01.04 - 28.02.04
Dr	Alphonsus Chong	Hand Surgeon, National University Hospital	Singapore	01.01.04 - 28.02.04
Dr	Anant Sinha	Plastic and Reconstructive Surgeon	Ranchi	12.03.04 - 03.04.04
Dr	Gael Maclean	SHO Plastic Surgery	Oxford, UK	30.03.04 - 19.04.04
Dr	Catina Bernardis	Specialist Registrar, Plastic Surgery	London, UK	03.03.04 - 20.04.04
Dr	M. Radhakrishnan	Plastic Surgeon	Nagercoil	19.04.04 - 23.04.04
Dr	Lt. Col. P.S. Bhandari	Plastic Surgeon, Army Hospital R & R	New Delhi	26.04.04 - 22.05.04
Dr	Sumita Shankar	Plastic Surgeon	Guntur	05.05.04 - 29.05.04
Dr	Thilak S Jepegnanam	Orthopaedic Surgeon, Christian Medical College	Vellore	03.04.04 - 29.05.04
Dr	Yuri Dias Amborkar	Plastic Surgeon, Goa Medical College	Goa	05.04.04 - 29.05.04
Dr	Bipin T Varghese	Division of Surgical Oncology, RCC	Trivandrum	31.05.04 - 04.06.04
Dr	Shaji Thomas	Asst. Professor, Regional Cancer Centre	Trivandrum	31.05.04 - 04.06.04
Mrs	Saraswathi Amma P	Staff Nurse, Regional Cancer Centre	Trivandrum	31.05.04 - 04.06.04
Miss	Sindhu PM	Staff Nurse, Regional Cancer Centre	Trivandrum	31.05.04 - 04.06.04
Dr	Jayesh P Sachde	Asst Prof, Plasric Surgery, MP Shah Medical College	Jamnagar	14.06.04 - 25.06.06
Dr	Jigisha P. Sachde	Asst. Professor, Department of Anaesthesiology	Jamnagar	14.06.04 - 25.06.06
Dr	Lt. Col.Surajit Basu	Graded Surgical Specialist, Plastic Surgery, AFMC	Pune	01.06.04 - 25.06.04
Dr	Shrikant P. Lagvankar	Professor & Head, NHL Municipal Medical College	Ahmedabad	26.06.04 - 02.07.04
Dr	Himanshu J. Vora	Associate Professor, LG Hospital	Ahmedabad	26.06.04 - 02.07.04
Mr	Y. S Rajan	Principal Adviser, Confederation of Indian Industry	New Delhi	20.07.04
Dr	Sudhir Kumar Mehta	Plastic Surgeon	Ahmedabad	06.07.04 - 09.08.04
Dr	Nilesh Ghelani	Plastic Surgeon	Ahmedabad	06.07.04 - 09.08.04
Dr	Rajinder Kumar Mittal	Plastic Surgeon, Christian Medical College	Ludhiana	05.08.04 - 21.08.04
Lt Col	Vijay Langer	MCh Trainee in Plastic Surgery, AFMC	Pune	01.08.04 - 26.08.06
Dr	Aung Swe	Orthopaedic Surgeon	Myanmar	25.07.04 - 03.08.04
Dr	Ashuthosh Shah	Plastic Surgeon	Surat	12.08.04 - 11.09.04
Dr	Venkatesh	Plastic Surgeon, SRMC	Chennai	26.08.04 - 03.09.04
Dr	Vijay Kumar	Plastic Surgeon, KG Medical University	Lucknow	07.09.04 - 20.09.04
Dr	Suresh Chawre	Plastic Surgeon	Nagpur	07.09.04 - 20.09.04
Dr	Ramakanth Bembde	Consultant Plastic Surgeon	Aurangabad	15.09.04 - 30.09.05
Dr	Rajendra Nehete	Consultant Plastic Surgeon	Nashik	15.09.04 - 30.09.05
Prof.	C R Sundararajan	Rtd Prof. of Plastic Surgery, Madras Medical College	Chennai	16.10.04
Dr	Jamie Mckenzie	Registrar, Royal Free Hospital	London, UK	01.11.04 - 22.11.04

TITLE	NAME	DESIGNATION	PLACE	DURATION
Dr	Pankaj Kumar	Orthopaedic Surgeon	Nepal	01.10.04 - 29.11.04
Dr	Senthivel Kumar	Consultant Plastic Surgeon	Trichy	05.12.06 - 10.12.04
Dr	Thiraviam	Plastic Surgeon	Nagercoil	12.12.04 - 17.12.04
Dr	Aamer Ullah	Specialist Registrar, Orthopaedics, Leicester, Royal Infirmary	Leicester, UK	08.11.04 - 17.12.04
Dr	Raj Ragoowansi	Dept of Plastic Surgery, Queen Victoria Hospital	London, UK	01.11.04 - 26.12.04
2005				
Dr	Suresh Prasad Reddy N	Orthopaedic Surgeon, Prakasam (DT)	Andhra Pradesh	01.01.05 - 10.01.05
Dr	Anurag Jain	Plastic Surgeon	Delhi	06.02.05 - 27.02.05
Dr	Dammika Dissanayake	Plastic Surgeon, National Hospital	Colombo, Sri Lanka	01.01.05 - 27.02.05
Dr	Paul Thomas Chirayil	Plastic Surgeon	UAE	10.02.05 - 27.02.05
Dr	Martin Coady	Clinical Director, Department of Reconstructive Plastic Surgery	Middlesbrough UK	24.03.05 - 29.03.05
Dr	Swaroop Singh Gambhir	Plastic Surgeon	New Delhi	06.04.05 - 20.04.05
Dr	Rajeev Kumar Rajak	Plastic Surgeon	Patna	02.04.05 - 28.04.05
Dr	Prashant Tyagi	Plastic Surgeon	Haryana	07.04.05 - 20.05.05
Dr	Sivaramakrishna	Asst. Professor, N.R.I. Medical College, Guntur,	Andhra Pradesh.	01.05.05 - 15.05.05
Dr	Syafuruddin Hussain	Orthopaedic Surgeon	Indonesia	25.04.05 - 07.05.05
Dr	Syed Ahmed Faizal	Plastic Surgeon	Kolkata	07.05.05 - 03.06.05
Dr	Selvam A.P	Plastic Surgeon	Dindugal	16.05.05
Prof.	Lam-Chuan Teoh	Clin. Assoc Professor, Senior Consultant Hand Surgeon Dept of Hand Surgery, Singapore General Hospital	Singapore	14.05.05 - 21.05.05
Dr	Erik Andersen	Medical Student	New Zealand	02.06.05 - 30.06.05
Dr	Mumtaz Hussain	Associate Specialist Plastic Surgery	Chelmsford, UK	12.06.05 - 17.06.05
Dr	S. Mishra	Prof & Head Plastic Surgery, R.M.M.C.H,	Chidambaram	24.06.05 - 25.06.05
Dr	Susan Bibby	Orthopaedic Surgeon	New Zealand	23.05.05 - 30.06.05
Dr	Arunkumar V. Deshmukh	Plastic Surgeon	Kolhapur	12.07.05 - 30.07.05
Dr	Manish Patel	Plastic Surgeon	Nashik	04.07.05 - 26.07.05
Dr	Vishwa Prakash	Plastic Surgeon, Safdarjung Hospital	New Delhi	25.07.05 - 05.08.05
Dr	Rajshree C.J	Plastic Surgeon Jubilee Mission Medical College & Research Institute	Thrissur	08.08.05 - 12.08.05
Dr	Shaji Mathew	Plastic Surgeon	Muscat	15.08.05 - 18.08.05
Dr	Dhananjay Nakade	Plastic Surgeon	Baroda	30.08.05 - 25.09.06
Dr	Gopalakrishnan K	Plastic Surgeon	Chennai	07.09.05 - 08.09.05
Dr	Manjula Devi	Plastic Surgeon	Vellore	19.09.05 - 23.09.05
Dr	Ram Kumar	Plastic Surgeon	Cambridge, UK	29.09.05 - 05.10.05
Dr	Smitha Usgaocar	Anaesthesiologist	Goa	07.10.05 - 13.10.05
Dr	Milan Shah	Consultant Anaesthesiologist	Mumbai	08.10.05 - 12.10.05
Dr	Naina Kulkarni	Consultant Anaesthesiologist	Nashik	10.10.05 - 15.10.05
Dr	Kannan	Anaesthesiologist	Madurai	10.10.05 - 15.10.05
Dr	Rehan-UI-Haq	Asst. Professor, N.S.C.B Medical College	Jabalpur	18.09.05 - 12.10.05
Dr	Gigy Raj. K	MCh Trainee In Plastic Surgery	Kottayam	11.10.05 - 31.10.05
Dr	Roop Singh	Orthopaedic Surgeon	Rohtak	04.11.05 - 14.12.05
Dr	Quazi Billur Rahman	Maxillofacial Surgeon	Bangladesh	23.11.05 - 01.12.05
Dr	Patrick Gillespie	Specialist Registrar, Plastic Surgery	Suffolk, UK	09.11.05 - 27.12.05
Dr	Hari Singh Bisoniya	Plastic Surgeon	Bhopal	14.12.05 - 05.01.06
Dr	Satish Bhat	Plastic Surgeon	Mumbai	14.12.05 - 05.01.06
Dr	Randhawa H.S	Physiotherapist	Amritsar	16.12.05 - 19.12.05



THE TEAM



1. VS Sanjai Ram Kumar, 2. KV Nagakiran, 3. Saranjeet Singh, 4. Yadav Jayesh Rambhau, 5. Vijay Kamath, 6. K Ramalingam, 7. Hari Venkatramani, 8. Pushkar Chawla, 9. C Sekar, 10. V Ravindra Bhat, 11. SR Sundararajan, 12. Anuradha Jagdish Patil, 13. S Raja Sabapathy, 14. R Ravindra Bharathi, 15. Dhanasekara Raja, 16. S Rajasekaran, 17. Armstrong, 18. Sanjay, 19. T Ajoy P Shetty, 20. N Rajkumar, 21. P Ramesh, 22. Dheenadayalan, 23. J Balavenkat, 24. A. Devendra, 25. CK Sree Harsha, 26. Udhay Shankar, 27. S. Pushpasekar, 28. Vidyadhara S, 29. Virupaksha, 30. V Sarathy, 31. Ashsish Jaishwal, 32. G Venkateswaran, 33. Ashwath Acharya

strengthened by skills

powered by team work

driven by values

- Ganga Hospital



S Raja Sabapathy Hari Venkatramani V Ravindra Bhat
R Ravindra Bharathi

Dr S Raja Sabapathy, Director & Head, Department of Plastic, Hand & Reconstructive Microsurgery

- Hon Consultant and Advisor to Armed Forces Medical Services.
- President - Indian Society for Reconstructive Microsurgery - 2004 to 2006
- Secretary- Indian Society for Surgery of the Hand
- Secretary - Brachial Plexus Surgery Group of India
- Editorial Board Member -
 - Journal of Plastic, Reconstructive and Aesthetic Surgery (Formerly British Journal of Plastic Surgery)
 - Techniques in Hand and Upper Extremity Surgery
 - Journal of Brachial Plexus and Peripheral Nerve Injury
- Peer Reviewer for
 - Indian Journal of Plastic Surgery
 - Journal of Hand Surgery (British and European Volume)
 - Indian Journal of Surgery
 - Journal of Post Graduate Medicine
 - Journal of Biomedical Materials Research

Dr. V. Ravindra Bhat, MD, DA, DNB (Anaes)

Consultant and Chief of Anaesthesiology, Plastic, Hand and Microsurgery Department.

Dr Bhat has made significant contributions to the growth of the department by creating a system of rapid resuscitation of major trauma patients facilitating early surgery. His skills and teaching capabilities have made this a popular centre for learning regional anaesthetic techniques. His techniques of **“On arrival blocks, Combined Spinal and Brachial Blocks, Bilateral Upper Limb Blocks”** in multiple injury patients are valued by surgeons and anaesthesiologists. Apart from his anaesthetic skills the unit values him as a great all rounder. His stamina to go on and on is unmatched.

Dr. R. Ravindra Bharathi, MS (Gen), M.Ch (Plastic), DNB (Plastic)

Consultant, Plastic Surgery - Facio Maxillary Surgery

After completing his Plastic Surgery training from Madras Medical College, Chennai, in 1999 he joined Ganga Hospital in the same year and became a Consultant in 2002. His special interests include Facio-Maxillary Trauma, Head & Neck Reconstruction, Cleft lip and Palate Surgery and Cosmetic Surgery. He received the Ethicon Cosmetic Surgery Fellowship of APSI in 2003 and underwent a overseas Travelling Fellowship at Chang Gung Memorial Hospital, Taiwan in 2004. He was the co-chairman of Scientific Committee APSICON 2003. He is the Director of Clinical Research and Teaching Programmes for the post graduate students and has 15 publications to his credit.

Dr. Hari Venkatramani, MS (Gen), M.Ch (Plastic), DNB (Plastic)

Consultant, Plastic Surgery - Trauma Reconstructive Surgery

Dr. Hari after receiving his Plastic Surgery training from J.J. Hospital, Mumbai, joined the Department in 1999 and was elevated as Consultant in 2002. His special areas of interest are Trauma Reconstruction, Brachial Plexus Surgery and Microsurgery. He was the Organizing Chairman, of live pre conference workshop in APSICON 2003. He is a founder Member of Brachial Plexus Surgery Group of India. His presentation on **“Trans Metacarpal Replants”** received the Peet Prize of APSICON 2005 and on **“Nail reconstruction”** the best paper prize in the ISSH 2005. He is the recipient of IPRAS International Travelling Fellowship for the year 2005. He was the invited as a Guest Faculty for Pre-Congress Workshop of The College of Surgeons of Sri Lanka. He has 16 publications to his credit. He has a passion for travelling which makes him look forward to conferences.



Ganga Medical Centre and Hospitals (P) Ltd.

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