

Head and Neck Institute

Departments of
Head and Neck Oncology
Plastic and Reconstructive Surgery
Cleft and Craniofacial surgery

Triennial Report
2003 –2006

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Head and neck institute

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Introduction

The head and neck institute started functioning on November 1, 2003. This report reviews the past three years (2003-2006) activities and outlines vision for the future. Our principal focus during this initial three years were to establish a state-of-art clinical service and training program in head and neck surgery, plastic and reconstructive surgery and cleft and craniofacial surgery.

Management of complex ailments of the head and neck region often requires multi-disciplinary input. To facilitate seamless interaction between various clinical disciplines, we have introduced a novel concept of bringing all the important head and neck related specialties under the umbrella of “head and neck institute”. This includes specialists in Head and neck surgery, Plastic and reconstructive surgery, Oral and maxillofacial surgery and Otolaryngology. This has not only expedited treatment planning and delivery, but also enabled the ability to offer the most optimal treatment for an individual patient. The institute has three departments, which has set up several disease specific multidisciplinary clinics.

Head and Neck Surgery

- Head and neck oncology
- Skull base surgery

Plastic and Reconstructive Surgery

- Microvascular Surgery
- Aesthetic Surgery
- Hand surgery
- Lymphodema clinic

Cleft and Craniofacial Surgery

- Cleft lip and palate clinic
- Craniofacial Deformity clinic

Concurrent to the development of comprehensive clinical service, we also focused in initiating several training programs to create next-generation clinicians and scientists in this field. The institute boasts to start the *first* systematic training program in head and neck surgery and oncology in India. In addition, we have also conducted several Continuing Medical Education programs for the local medical community.

Our vision for the future is to build on the clinical strength and establish a translational research program integrated to the clinical service. This we anticipate will expedite translation of basic science developments into clinical practice with tangible benefit to the community. Several stepping-stones in

this direction have already been laid. With the support of Kerala State Science and Technology we were able to initiate a basic science research laboratory. We are successful in generating research grants totaling more than *10 million rupees* from several national and international funding agencies, including the prestigious National Institute of Health, USA.

In addition, we intent to initiate innovative training programs in other fields such as Plastic and Reconstructive Surgery and a multi-disciplinary post-graduate fellowship program in cranio-facial surgery.

To take our clinical expertise to the community we plan to start peripheral clinics at strategic locations in our patient catchment region. With the support of Department of Science and Technology, we have initiated a community oral cancer prevention program at two villages near Cochin- Chellanum and Thalayolaparmbu.

Success of our program depends on the commitment of its dedicated staff. The head and neck program take pride in its *team approach* and the patient and staff friendly working atmosphere. Above all we draw our inspiration and strength from Amma, and her grace remains our guiding spirit.

Milestones and Achievements



Inauguration of Head and Neck Institute by Sampoojya Swamy Poornamritandapuri

Initiation of *India's first* comprehensive head and neck institute - 1st November 2003

Initiation of *India's first* M Ch training in head and neck surgical oncology - 1st January 2004

Commissioning of dedicated operation theatre/ICU complex - December 2004

Commissioning of dedicated out patients wing - March 2005

100th free tissue transfer carried out in a short span of 1 year- December 2004

Lymphoedema clinic opened on January 2005

Dedicated outpatient minor surgery theatre - March 2006

One of the first successful neonatal mid-face distraction reported in the world - August 2005



Neonatal midface distraction osteogenesis



Dedicated Head and Neck ICU

The Head and Neck Team

Faculty

Clinical

Moni Abraham Kuriakose MD, FDSRCS, FFDRCS, FRCS, FRCSEd, Dip Am B
Chairman

Subramania Iyer M Ch FRCS
Head, Department of Plastic and Reconstructive Surgery

Sherry Peter MDS, FRCS
Head, Department of Cleft and Craniofacial Surgery

Mohit Sharma M Ch
Asst professor

Sasidharan M Ch
Asst professor

Pramod Subash MDS, DNB
Reader

Sundeeep V. M Ch
Asst professor

Nithin Anand Krishnan BDS
Tutor

Maria Kuriakose BDS, PhD
Assistant Professor

Jijo Paul MDS
Visiting Consultant

Ravindranathan FRCS
Visiting Consultant

Research

E.M.Elango PhD
Senior Scientist

Amritha Suresh PhD
Asst Professor

Kalavathy elango MBBS
Research Associate

Parvathy MSc
Research asst.

Muhilvannan MSc
Project Junior Research Fellow

Minu Sarma MSc
Junior Reaserch Fellow

Associatiated Departments

Neurosurgery

Dilip Panicker MCh

Anaesthesia

Jerry Paul MD
Sunil MD

ENT

Pratapan Nair MS
Indudharan MS

Radiation Oncology

T K Padmanabhan MD
Br Sunil MD
Jacob samuel MD

Neurosurgery

Dilip Panicker MCh

Support Staff

Outpatient Staff

Staff Nurse

Sathya Sagar

Nursing Assistant

Salini. K.M

Renjimol R

Anitha P.N

Clinical care co ordinator

Vineetha Vinayachandran

Santhi Suresh

Soumya. B - Secretary

Sr. Public relation Asst

Kavitha K Santhosh

Medical social worker

Dhanya K.S

Physician Assistant

Dhanesh

Bibitha

ASK

Dhanya

Deepthi

Operation Theatre Staff

In charge

Valsamma Thomas

Secretary

Sreedevi

Staff Nurse

Vidhya Rani

Lissy M M

Jiss K Varghese

Raji S Nair

Sony Mathew

Linu P Kuriakose

Ajesh Cyriac

Jerry Johan Mathew

Sheenu Thomas

Kurien T Joseph

Anoop Das

Manish K

Sheeja T T

Taise Mathew

Soumya V P

OT Technician

KD Shaji

OT Assistant

Sreenathan M

Nursing Assistants

Rasi P

Sindhu Lakshmi.S

Intensive Care Unit

In Charge

Grace.P. Aluvila

Secretary

Asha V V

Staff Nurse

Manjusha

Sheela John

Divya S Nair

Raji KR

Simi KS

Shiney John

Jill Mol

Biji Jacob

Anitha

Sojo Varghese

Vidhya Vijayan

Remya

Bipin V Varghese

Hena Chandran

Dilla Jose

Blessy John

Subin John



Community Outreach Program

Community oncology team leader

Mathew Mampilly BDS

Research Associate

Soby Jose

Community worker

Elsy umachan

Ambily p.G

Gisha

Head and Neck Institute in the News

A HEARTWARMING STORY, AAFPRS HELPS

By Laura Breault, Boston, MA

A friend who frequently visits India, Steve Lynch, told me about a brother, Silambarasan and sister, Jayanthi, from India with severe facial deformities that I would come to know as plexiform neurofibromatosis. It was hard to imagine the facial features he was describing—huge flap of skin that lifts up to expose an eye socket without an eyeball, large tumors on the outside of their face, sloped mouth and bone protrusion. We decided that when he went back to India the next year he would try and help them. Time passed and I had almost forgotten about our thoughts for the children when I e-mailed Steve. He had just arrived in their village that day and would try to arrange a meeting with the family through their school. Steve sent me pictures of the children. I sat shocked at the look on their faces. They lacked emotion; I was sad for them, wondering what was going through their heads when the pictures were taken. Would anyone laugh? Grimace? I knew I had to somehow help them achieve outer beauty so others would come to know the inner beauty that was begging to be recognized. I quickly came up with a list of organizations to contact: ORBIS, Operation Smile, the American and Indian Red Cross and Interplast organizations, and Healing the Children. They had very specific missions that would cover certain aspects of what the children needed but were not able to help them entirely. I was discouraged, but knew there was still hope.

At a meeting for another facet of my life, I passed out pictures of the children, knowing that many in our group had family members who were physicians and contacts in medical communities. Many compassionate people e-mailed me, people I didn't even know, friends of friends, elderly bringing the pictures to their doctors. It was heart-warming to know so many people cared. Then, I received an e-mail from a woman named Dara Zapata, who sent me a link to the AAFPRS as an organization that performs facial plastic surgery. I quickly faxed the children's pictures to them and when I arrived home from work that same day, I heard an angel on the other end of the answering machine. Ann Holton from the AAFPRS called to say they were just talking about a recent visit to India and the two pictures came across the fax line. Ann gave me the number of an enthusiastic AAFPRS doctor who had visited India, Minas Constantinides, MD, from New York City, who knew a doctor in India that we should contact.

I sent my friend Steve the name and address of this physician. Steve went to AIMS Hospital in Cochin, Kerala where he met the man who would care for the children as well as perform crucial surgeries for their development and well-being. Monti



Abraham Kuriakose, MD, chair of the Head and Neck Institute at AIMS. They immediately set the date for the first surgery, April 19, 2004. We quickly realized we would have to come up with the money necessary to perform the surgeries, approximately \$1,500 per surgery, per child. We knew the children needed four to six surgeries each.

The circle of those interested in helping us raise funds continued to grow. As a teacher at Hanover Middle School in Massachusetts, word quickly spread about this endeavor we now call *Project Om Shanti* (meaning "world peace" in Hindi). The students organized a "Survivor Game" to benefit the fund, proceeds from a school dance were donated, and the community rallied around this venture at fever pitch. The sixth graders made "Good Luck" signs and the photos I took of the students were sent before the surgeries. They sent many friendship bracelets, which the students decided to sell to raise money. A New Hampshire teacher, Barbara Dupont, enlisted her eighth grade students to make cards and sold the handicrafts in her state to add a considerable sum to our total. Currently, we have paid for the first two surgeries and are working on the upcoming surgeries for May 2005.

In November 2004, I was able to visit India for the second set of surgeries. The children were sweeter than I could have imagined and their smiles lit up the room. They loved using my digital camera to take pictures around the hospital; Sil performed Kathakali dances for us while Jayanthi led with vocals. They enjoyed putting balloons and glow sticks on the fan in their room for a little girl who was dying of throat cancer to watch.

When I see the first pictures of the children and those after their last surgery, it brings tears to my eyes. We have shown them our love and in return have received something divine, something that is not able to be expressed in words. I'm sure many of you with the AAFPRS know exactly what I'm talking about. Thank you for all the lives you have touched with your generosity and skill.

A very special thank you to Drs. Kuriakose, Iyer, Aron, Peter, Paul, and the many others who care for Sil and Jaya when they visit AIMS. Of course none of this would have been possible without the AAFPRS and Dr. Constantinides. You will always have a special place in my heart for your role in assisting two children who when seeing doctors around their village would ask, "Could you please fix my face?" ■

Dr. Minas Constantinides is planning a second surgical and educational mission to Kerala, India in October 2005. Interested physicians should contact Dr. Constantinides at: minas.constantinides@med.nyu.edu or Ann Holton at AHolton@AAFPRS.org.

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 സൗമ്യൻ - 12.34
 ബുധൻ - 3.54
 ശനി - 6.53
 ഇരട്ടം - 8.08

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 സൂര്യോദയം(ഇന്നി) 6.46
 സൂര്യോദയം(നാളെ) 6.17



എലന് ഇനി മുഖം കാണിക്കാം

സ്വന്തം ലേഖകൻ
 കൊച്ചി: അമേരിക്കയിലും ഇന്ത്യയിലുമായി ഏറെനാൾ തീണ്ടി നടന്നിരുന്നവരായിരുന്നു എലന് ഇനി എന്നയാളായ ചൈനയിൽ മുഖം കാണിക്കാം. ചൈനയിൽ നഷ്ടപ്പെട്ട മുഖം താൻ മേൽ എന്ന് കൂടി പേരുള്ള എലന് ഇനി തിരിച്ചുകിട്ടിയത് ന്യൂയോർക്കിലെ ഇടപെടലിൽ അത്യന്ത ഇൻസ്പിറേഷൻ ഓഫ് മെഡിക്കൽ സർവ്വീസിലുമായി നടന്ന ശസ്ത്രക്രിയകളിൽ കൂടിയാണ്. ഏഴു വർഷം കൊണ്ട് 11 ശസ്ത്രക്രിയകൾ (അതിൽ അവസാനത്തെ നാലും അത്യന്തയിലാണ്) നടത്തി തിരികെ ലഭിച്ച മുഖവും ചുറ്റുമുള്ളതുമായി ഇന്നലെ എലന് അമേരിക്കയിൽ കൊച്ചിയിലെ എലന് ഇനിയാളായി മാറി. ഹോട്ടൽ സർവ്വീസിൽ ഡ്യൂട്ടിയിടുന്ന എലന് മുഖത്തിന്റെ



അർബുദത്തെത്തുടർന്ന് എലന്

'Smoke tobacco out'

Express News Service
 Kochi, May 31

The medical faculty has a definite role in compelling patients to give up tobacco consumption, said Dr. M. Dinesh, AIMS, Kochi. He was speaking at a seminar held in connection with World No Tobacco Day at IMA Hall on Wednesday.

Several doctors presented papers on the dangers of tobacco consumption at the seminar organised by the Anti-Tobacco Movement at Amrita (ATMA) in concert with the IMA and the rotary clubs of Kochi and Cochin Harbour.

Tobacco-related diseases and deaths are on the rise in India, said Dr. Pramod Subhash. "Tobacco - the silent killer - is responsible for about 30 to 50 percent of all tumours in India. In Kerala, every 40 people out of 1,00,000 suffer from head and neck cancer."

consumption. All the major political parties in India are funded by tobacco companies, said Dr K.R. Thankappan. A part of a study entitled 'Knowledge, Attitude and Practice of Oral, Breast and Cervical Cancer in the Northern part of Kerala' conducted during 2001-2002, smoking and chewing tobacco were prevalent among a small percent of women in the age group of 35-50 in Kannur, Kasargod and Wayanad districts, said Dr Jayadevan, Department of Community Medicine, Pariyaram Medical College.

According to a survey conducted by the community development programme of Amrita Tribal Health Initiative, about 37 percent of the tribal population in Wayanad and Idukki districts were addicted to smoking, said L.S. Valsala. "But thanks to the efforts of the tribal promoters, nearly two percent (about 1,000 people) quit smoking."

Dr Benny Thomas, IMA Presi-

The head and neck institute has three inter-related departments- head and neck surgery, Plastic and Reconstructive surgery and Cleft and Craniofacial surgery. Each of these departments have initiated multi-disciplinary clinical services in collaboration with other departments.

Head and Neck Surgery

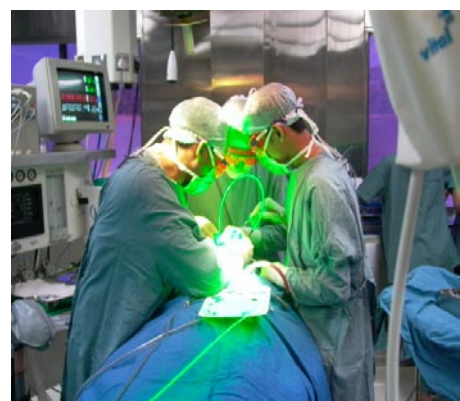
The head and neck surgery service has two multi-disciplinary clinical services.

- Head and neck oncology
- Skull base surgery

Head and Neck Oncology:

Head and neck' cancer consists of tumors of the upper aerodigestive tract and the associated structures. Head and Neck Cancer has a distinct geographical predilection. While it accounts for only 3% of all tumors in the developed countries, in Indian sub-continent it forms over 30% of all cancers. South India, in particular the state of Kerala has one of the highest reported incidences of head and neck

cancer in the world. Tobacco is the single most significant etiologic factor, which is potentiated by alcohol abuse. Anatomic location, histologic sub-type and proximity to vital structures are the critical factors determining treatment choice. It is now well established that multimodality treatment with surgery, radiation therapy and chemotherapy in various combinations offer the best cure rate. Because of the involvement of multiple specialties, the treatment decision and monitoring is best carried out through a multidisciplinary head and neck oncology service. In addition support of a dedicated rehabilitative service and pain and palliative service is essential for the total care of head and neck cancer patients. Amrita head and neck oncology service strive to set a model for this total multi-disciplinary care in the country.

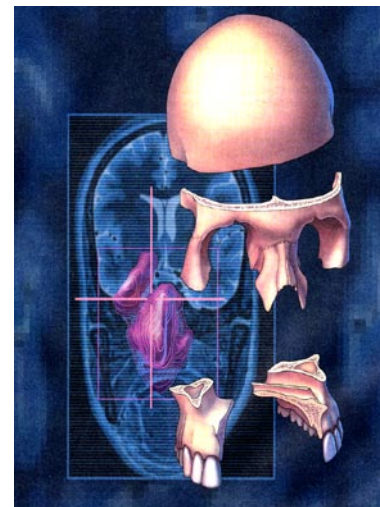


Laser Surgery

Skull Base surgery

This is one area where the fruit of the multi-disciplinary venture is most apparent. Tumors of the skull base were considered unresectable, hence incurable until the recent past. The applications of craniofacial surgical approaches developed for the management of facial deformities to skull base tumor surgery has enabled tumors previously deemed inoperable to be resected with minimal morbidity. Similarly many neurosurgical procedures have been refined in the recent past for the management of this complex and often devastating disease processes. Effective collaboration between Neuro-otology, Neurosurgery and head and neck surgery is required to deliver optimal treatment of this complex problem. Other major technological advances in this field include, image guided surgery and stereo-tactic radio-surgery.

AIMS skull base team has all these infrastructure as well as highly trained personnel. During the first two years of its activity, the service has performed 45 cases.



Pre and post operative view of anterior skull base tumor

Plastic and Reconstructive Surgery

The department of Plastic and Reconstructive Surgery offers four clinical services. Microvascular surgery, Aesthetic Surgery, Hand surgery and Lymphodema clinic

Microvascular Surgery

The technique of microvascular free flap reconstruction, which is the most advanced technique in reconstructive surgery is routinely practiced in the service. In fact our department can claim to be one of the most busy departments in India,



in terms of the volume of cases done especially in head and neck reconstruction.

The milestone of 100th free flap transfer was achieved in a short span of 12 months. Till date over 350 of such major procedures have been undertaken in the department with success rates matching to international standards. We have initiated a short term training programme in microvascular surgery,

which is attracting trainees from many countries. In order to facilitate training we also have been running structured animal experimental surgical courses regularly

Aesthetic Surgery:

Advances in aesthetic facial surgery came about from various specialties such as Plastic surgery, Maxillofacial surgery, Otolaryngology, Dentistry and Dermatology. Disturbances in facial harmony, which affects one of the aesthetic facial components can cause compensatory changes in the others. It is no longer considered appropriate to address only the soft tissue, skeletal or dental aesthetic unit in isolation but needs to be considered in a holistic fashion for better cosmetic outcome. The department of Plastic Surgery has initiated a multidisciplinary aesthetic surgery unit incorporating all these components.



Aesthetic surgery of the body especially lipoplasty and liposuction, abdominoplasty, breast reductions and augmenta-

tions ,have become quite sought after. The department offers these specialized services to the international standards of care.

Hand surgery

Hand injuries can be devastating in terms of function and livelihood for the patients, which can be mitigated to a great extent by timely and expert care. Our division is able to offer immediate treatment in these injuries including replantation of severed digits and limbs. Also we have initiated a brachial plexus injury rehabilitation programme incorporating the recent advances in the surgical reconstruction A pediatric hand surgery service is planned to be started soon

Lymphodema clinic

Lymphoedema affecting the lower and upper limbs is a serious health problem in the state and unfortunately not given its due importance by the health professionals. This needs a multidisciplinary and holistic approach in its management. Considering this as a social cause the department took initiative to organize a comprehensive service to cater to these patients with the close involvement of general surgery, nuclear medicine and pain and palliative departments



Writing with transplanted toe after loss of thumb



Trigonocephaly before correction



After correction



Cleft and Craniofacial Surgery

The department of cleft and craniofacial surgery has three service- cleft lip and palate clinic, craniofacial deformity clinic and dentistry.

Cleft and Craniofaicial Surgery Services: Facial anomaly has a significant effect on both the emotional and physical growth of children. Early recognition and correction of craniosynostosis is essential for normal growth of both brain and craniofacial skeleton. Though the overall incidence of cleft lip and palate in India is similar to that of other parts of the world (1.16 per thousand live births), because of the large population, it poses a major health problem. Comprehensive management of craniofacial anomalies is best achieved through a dedicated multidisciplinary treatment and rehabilitation team.

Dentistry is an integral part of total head and neck care. Orthodontic assistance is required for cleft and craniofacial deformity management. Prosthodontics is required for the rehabilitation of post-ablative defects of the head and neck region. Regular dental care is an essential component during the post radiotherapy care of head and neck cancer patients.

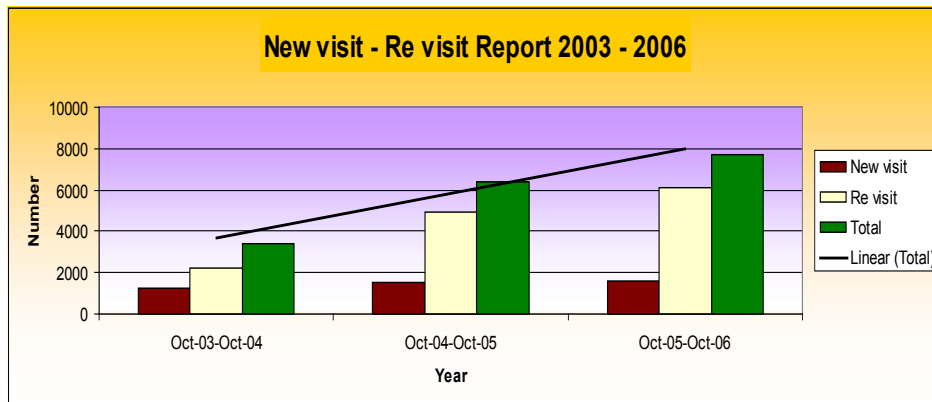
Out patient clinic activites

The outpatient services is open on all working days and has been catering to increasing number of patients each year. Special multidisciplinary clinics have been instituted in different disciplines like cleft lip and palate associated deformities, Lymphoedema, facial plastic surgery and craniofacial deformities. A dental clinic was incorporated into the service to facilitate the dental treatment of the head and neck cancer patients as well as providing orthodontic support for the cleft patients and prosthetic correction of the cancer patients

Table – 3 years

Year	Oct-03- Oct-04	Oct-04- Oct-05	Oct-05- Oct-06
New visit	1219	1496	1593
Re visit	2193	4921	6119
Total	3412	6417	7712

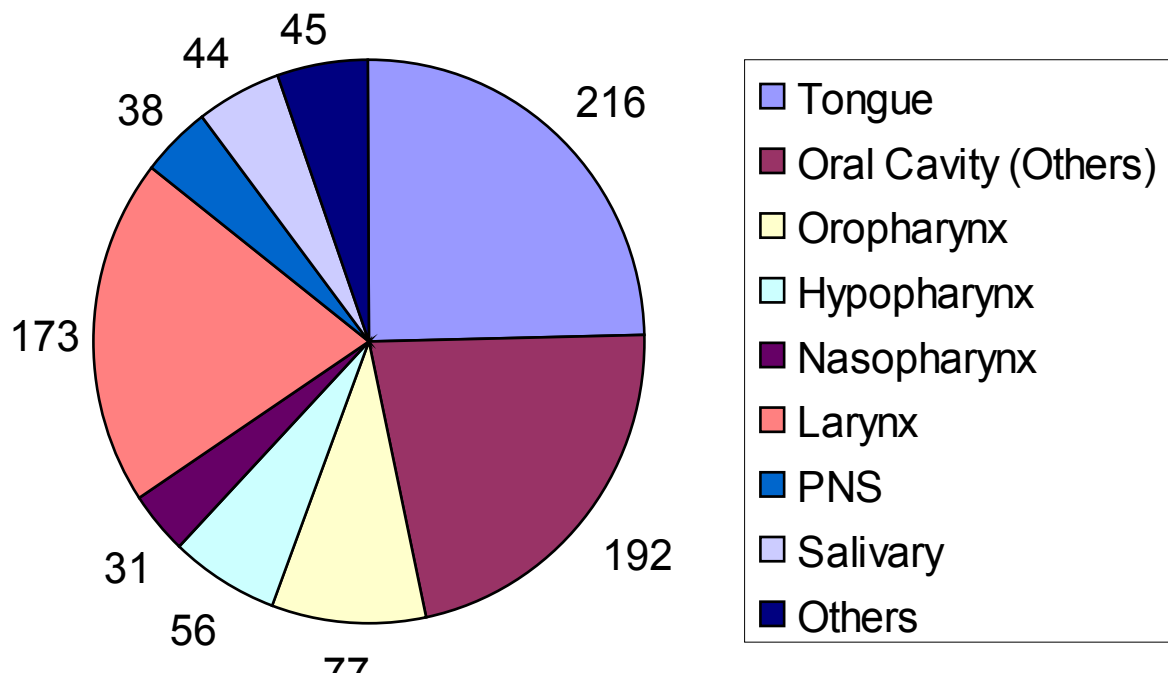
Outpatient activity



Outpatients

Subsite wise distribution of Head and Neck cancers attending institute's OPD.
2003 - 06

Site wise Distribution

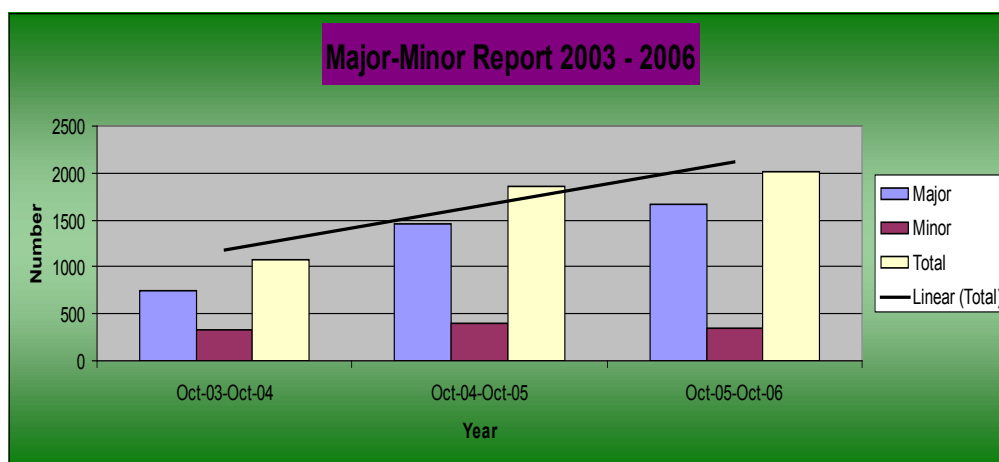


Operation Theater Activities

The unit has a dedicated OT complex consisting of three theatre suites and an ICU complex. From its inception the department has been carrying out major surgical procedures like microvascular free flaps, complex craniofacial and skull base procedures. The department has become one of the busiest microvascular services in the country attracting trainees and observers from different parts of India and abroad.

Year	Oct-03- Oct-04	Oct-04- Oct-05	Oct-05- Oct-06
Major	739	1467	1661
Minor	336	399	352
Total	1075	1866	2013

Operation theatre activities



Operation Report



Training Program

The institute, since its inception has given stress on giving leadership in the field of education and training in head and neck oncology, facial plastic surgery and reconstructive surgery. The main sphere of activities can be summarized as follows

MCh training programme

The incidence of head and neck cancers is quite high in Indian and management of this needs specialized training . Considering the inadequacies in the availability of such training programmes in India, the head and neck institute initiated a 3 year structures training programme in head and neck surgical oncology in January 2004. The programme is open to trainees who have post graduate training in general or ENT surgery. The programme was twinned with reputed cancer centers in the USA which allows the trainee to get exposure either in clinical or basic science research in head and neck oncology for a period of one year. The programme was accorded Mch status by the amrita visa Vidya Peetham, making it the first and only structures post graduate training programme in head and neck surgical oncology in the country. The first batch of the train-

ees is finishing the training in December 2006.

Fellows

Dr Arun.P (2003)
Dr Vikram Kekatpure (2003)
Dr Sudhir VR (2004)
Dr Neerav Trivedi (2005)
Dr Rajeev Sharan (2005)
Dr Krishnakumar (2005)
Dr Shilpa Chatni (2005)
Dr Surij Salih(2006)
Dr Daxesh Patel (2006)

The overseas exchange/ training program

Considering the interest expressed by trainees from overseas centers in our training programme, the Institute has initiated a fellowship programme for a period of 3 to 6 months for such candidates. They will have intensive training in specialized fields of head and neck surgery like Micro-vascular reconstruction during this period.

List of overseas trainees

1. Dr Rui Fernandez Jacksonville, USA
2. Dr Mahesh Kumar, London, UK
3. Dr Philip Ameerally, Liverpool, UK

4. Dr Andrew Lindsey, Perth, Australia
5. Dr Afshin Yousefpour, Sheffield, UK
6. Dr Andrew Raymond Salama, Maryland, USA
7. Dr. Kelvin Lim Lye Hock, Malaysia
8. Dr. Venkatesh Bhardwaj, Australia.

List of AIMS trainees abroad

1. Dr Kumaresh: Rosewell Park Institute) (2004-05)
2. Dr Vikram ketkapure: Memorial Sloan-Kettering Cancer Institute/Cornell University, New York (2004-06)

International visiting faculty

The department has been fortunate to have several renowned clinicians to visit us and stay with us for variable periods or conduct academic programmes. They include

1. Dr.Richard Cohen, Radiation Oncologist, New York University, USA
2. Dr JayBoyle, Head and neck surgeon, Memorial Sloan-Kettering Cancer Institute, USA
3. DrMark Delacure, Head and Neck Surgeon, New York University, USA
4. Dr Minas Constantinides, Facial Plastic Surgeon, New York University, USA
5. Dr Raveendranath, Maxillofacial Sur-

- geon, New York University, USA
6. Dr Robert Aucland, Microvascular Surgeon, Louisville, USA
7. Dr Andrew Fishman, Neurotologist, New York University, USA
8. Dr. Gunesh Rajan, Perth, Ear Science Institute of Australia, Australia
9. Dr. Sean Butros, Craniofacial Surgeon, Dallas, Texas, USA
10. Ms Rowena white senior speech pathologist perth australian
11. Dr. Karen Vargevik, San Fransisco USA

Observers International

1. Dr.Calogero Sortino, Italy.
2. Dr. Radhika Chungunupati, USA.
3. Mr. Kevin Wang, USA.
4. Dr. Thomas Abraham, Malaysia..

Observers National

- Dr Vimala Ramasamy, Chennai
 Dr Vilas P Neuskar, Indore
 Dr. Ajoy Roychouhury, New Delhi
 Dr. Ajay Kumar Haridas, Saudi Arabia
 Dr. Sanjiv Nair, Bangalore.
 Dr. Alok Garg, Kota.
 Dr. Jimmy Mathew, Kozhikode.
 Dr. Abhilash Balakrishnan, Thiruvananthapuram.

Dr. Sonal Anchalia, Mangalore.
Dr. S. Ravi Kumar, Hyderabad.
Dr. M.P. Manoj, Kozhikode.
Dr. M.E. Sham, Bangalore
Dr. C.S. Soumithran, Thiruvananthapuram.
Dr. Aniruddha Dam, Kolkata.
Dr. Porag Neog, Guwahati.
Dr. Jyotirmoy Phukan, Guwahati.
Dr. Ashok Shenoy, Bangalore
Dr. Alok Thakkar, New Delhi.

Dr. Purushottam Chavan, New Delhi.
Dr. Jatin Kalra, New Delhi.
Dr. Nanjundappa, Bangalore.
Dr. Satish Kumar, Coimbatore.
Dr. Gosala Reddy, Hyderabad.



Swallowing therapy certificate course 2006

Educational Activities

Workshops / Conferences Organised by the Department

Year 2004

2nd Biennial conference of the Indian Society of Facial plastic and Reconstructive Surgery
February 20-22

Facial aesthetic surgery workshop April 14-18 2004

National Initiative in head and neck cancer research December 2004

Year 2005

1st and 2nd Amrita Microvascular training course June 2004

This training programme has been designed to give candidates with surgical background to have on hand training in Microvascular surgery in laboratory animals in the surgical skill laboratory. They are also given demonstration of surgical cases as well as practical training in the planning and management of the cases requiring these procedures. The programme has been highly popular and is being run by the department on a regular basis.

Amrita Head and Neck Reconstruction course in flap dissections June 2004

This course was designed to impart training in reconstructive methods to head and neck

surgeons by demonstration of the various flaps in the cadaver by experienced faculty members.

PG teaching programme in head and neck surgery June 2004

There has been a persistent demand from postgraduate trainees in surgical specialties for a concise teaching programme in head and neck oncology. Considering this we have instituted an annual teaching programme comprising of invited lectures, group discussions and mock examinations. The faculty is drawn from experienced teachers across the country.



1st PG Teaching programme in progress

Year 2006

PG teaching programme in head and neck surgery February

3rd Amrita microvascular training course
February



participants with faculty of the 1st amrita microvascular training programme

Advanced Temporal Bone Dissection Course
February

4th and 5th Amrita microvascular training program : 24-28 June, 30 June-4th August

National research group in head and neck cancers

India has one of the highest incidences of head and neck cancers, but the research output in this field from our country has been very low. To facilitate and promote research activities a national consensus meeting was organized by the department in December 2004 representatives from six national cen-

ters participated in the two day deliberations which culminated in the formation of a national research group – HN-COG (Head and Neck co-operative research group) Several multicentre trials have been discussed and few implemented after formation of the group.



HN-COG meeting in progress

Participating centers

- Regional cancer center, Trivandrum
- All India institute of medical sciences
- Tata memorial hospital
- Cancer institute, adayar
- Kidwai institute of oncology Bangalore
- Ragas dental college, Chennai



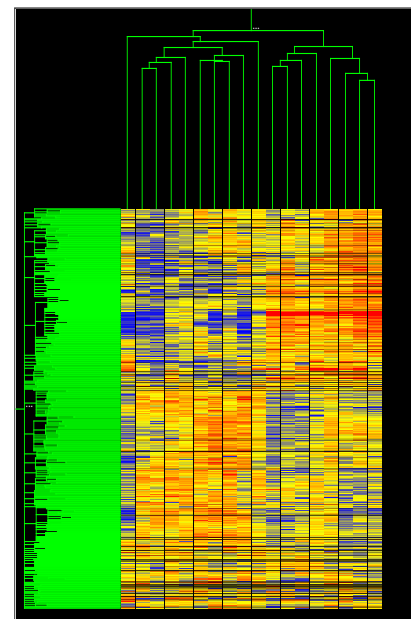
Prof Prathapan Nair during his lecture in the 2nd PG teaching programme

Head and Neck Translational Research Program

Advances in translational research are paramount for the progress of clinical medicine, with patients having complex, and seemingly insurmountable problems providing a constant stimulus and direction for new avenues of exploration. A major hurdle in the implementation of such a program is the traditional lack of interaction between physicians and scientists. Recognizing this limitation, the head and neck oncology translational research program is organized as an integral part of the Division of Head and Neck Surgery and Oncology, and the Department of Otolaryngology. The primary mission of the program is to facilitate the translation of the developments in basic science research into clinical practice. It is anticipated that this approach will have a positive impact on the prevention, early diagnosis, treatment and ultimately, the cure and quality of life, of the patients suffering from head and neck cancer.

The major focus of our research program is in head and neck cancer prevention and tissue engineering. We have been successful in securing several competitive national and inter-

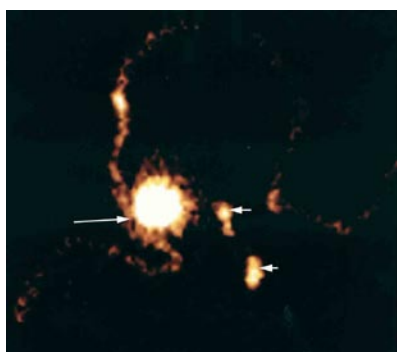
national research grants worth over one crore.



Micro-array technique in research in head and neck cancer a molecular level

Ongoing Research Projects

	Funding Agency	Project
1	National Institute of Health (NIH):	Phase II randomized clinical trial of Sulindac in oral premalignant lesions. The project will attempt to establish the effectiveness of Sulindac as a potential chemopreventive agent.
2	National Institute of Health (NIH):	Planning grant to develop an international consortium in oral cancer prevention. This grant is to support establishment of an international consortium in oral cancer prevention research between AIMS hospital and Memorial Sloan-Kettering Cancer Institute, New York.
3	Department of Biotechnology: Govt. of India	Phase II Chemoprevention trial of Curcumin in oral leukoplakia This clinical trial will attempt to determine the effectiveness of Curcumin a derivative of Turmeric to treat oral precancer lesion- leukoplakia.
4	Kerala State Science, Technology and Environment Research Council: infrastructure development grant.	This grant is to equip a core research laboratory for head and neck oncology to facilitate translational research.



Lymphoscintigraphy

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| 5 | Kerala State Science, Technology and Environment Research Council: | <p>Lymphocintigraphy for evaluation of nodal metastasis in Head and neck cancer.</p> <p>This project is to determine the feasibility of lymphoscintigraphy as a minimally invasive tool to detect sub-clinical lymph node metastasis.</p> |
| 6 | Council of Scientific and Industrial Research, Govt. of India | <p>Gene expression profiling of head and neck squamous cell carcinoma by cDNA microarray.</p> <p>This project which is carried out in collaboration with Center for Cellular and Molecular Biology, Hyderabad; will attempt to develop a custom head and neck cancer gene-chip for characterization of the tumor at the molecular level.</p> |
| 7 | Head and Neck Research Fund | <p>Validation of transcriptomes of Cancer associated genes in saliva of patients with oral Cancer</p> <p>The goal of this project is to identify cancer signature molecules in saliva, which may be used for early detection of cancer</p> |
| 8 | Belcher Pharmaceuticals | <p>Study to evaluate the efficacy and safety of Muco 5232 a concentrated chewable gel wafer in reducing the severity of oral mucositis included by radiation with or without Chemotherapy</p> |
| 9 | Head and Neck Research Fund | <p>Speech outcome after treatment of tongue cancer: comparison between different treatment methods.</p> <p>This project is to determine functional outcome of different methods of treating tongue cancer.</p> |
| 10 | Department of Science and Technology, Govt. of India: | <p>Evaluation of oral self-examination in early detection of oral cancer</p> <p>In this rural community based research we plan to determine the feasibility of mouth self-examination for early detection of oral cancer.</p> |

11	Head and Neck Research Fund	Elongation factor (eIF4) as a marker for sub microscopic metastasis in cervical lymph nodes This project involved development of a novel marker to identify sub-microscopic metastasis in cervical lymph nodes
12	wockhardt pharma	Phase II study of antibiotic efficacy in complicated skin and soft tissue infections.
13	Head and Neck Research Fund:	Study on prevalence of hypothyroidism in treated head and neck cancer patients and the effect of intervention on Quality of life.
14	Head and Neck Research Fund	Pattern of spread of tumours of the gingivo-buccal sulcus. This is a histopathological study to evaluate pattern of spread of cancer of gingivo-buccal sulcus.
15	Head and Neck Research Fund	Indigenous hydroxyapatite implants for chin and malar augmentation. This is a ongoing collaborative project with SCT center for research, Trivandrum



Out reach programs

To extend the expertise to the community, the AIMS head and neck institute has initiated an active outreach program in two important health care areas- oral cancer and cleft lip and palate.

Oral cancer early detection and prevention program of the institute attempts to detect cancer at an early and educate the community about the risk factors in head and neck cancer and measures to prevent the dis-

ease. With the support of the Department of Science and Technology of Government of India, the head and neck institute has initiate an innovative mouth self-examination program for early detection of oral cancer.

The institute organizes cleft lip and palate screening program in the community. The children identified through this program are offered free treatment with the support of Smile-train, an international philanthropic organization.

Honors and prizes

Dr M. Abraham Kuriakose

Member Editorial Review Board,

Cancer

The Laryngoscope

e-medicine- an online medical reference book

Laser in Surgery and Medicine

Indian Journal of Cancer

International Journal of Oral and Maxillofacial Surgery

Visiting professor Shanghai university hospital

Associate professor Maxillo facial surgery
New York University

Associate Professor Head and Neck Surgery,
Roswell Park Cancer, Institute, New York

Key note addresses and orations


Year 2004

1. Summer update in head and neck oncology- Kailash Cancer Center, Goraj, Gujarat, May 20
2. Mid term meeting, Asso. of Oral and Maxillofacial Surgeons Dharward, Karnataka. May 25, 2004

3. Oral and Maxillofacial Surgery Seminar, New York University, August, 2004
4. Association of surgeons of India, Kerala Chapter, Annual meeting, September 2004
5. Cochin Maxillofacial Surgeons CME, September 2004
6. Kerala Oral and Maxillofacial Surgeons Association, Annual meeting, October 2004
7. RIPAS Seminar in Maxillofacial and Facial Plastic and Reconstructive Surgery, Singapore, November, 2004

Year 2005

1. Department of Otolaryngology Grand Rounds, New York University, New York, January 2005
2. 30th Indian Society of Human Genetics, Annual Meeting, Hyderabad, 20-23 February 2005
3. 10th International Congress on Oral Cancer, Crete, Greece, 19 to 24, April, 2005
4. Association of Oral and Maxillofacial Surgeons of India mid-term conference, Mysore 4-9 June 2005,
5. American academy of oral and maxillofa-

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6. AACR Frontiers in Cancer Prevention, Baltimore, October 2005
 7. NIH/NIDCR, Bethesda, Washington, October 2005
 8. Surgical Grad rounds, Roswell Park Cancer Institute, Buffalo, New York.
 9. Ethics in Medicine Lecture Series, Amrita College of Medicine, December 2005.
 10. Skull base society of India national meeting kochi, India October 2005
 11. Second national meeting HN-COGRliance biotech center Bombay July 2005
 12. Foundation for head and neck oncology annual meeting Hyderabad January 2005
 13. Asso of oral and maxillofacial surgeons annual meeting Jaipur November 2005
 14. International symposium on apoptosis trivandrum December 2005
- 2006
 4. University of Kerala, Department of Biochemistry seminar, April 2006
 5. Silver Jubilee Celebration of Calicut Dental College, May 2006
 6. Association of Otolaryngologist of India, Malabar Branch 18th Annual Conference, Calicut, May 2006
 7. ICMR Oral cancer symposium Rajeev Gandhi institue of biotechnology trivandrum
 8. March 2006
 9. Guest lecture shanghai university hospital , china
 10. Indian Dental Association- Kerala Branch meeting, May 2006
 11. FHNO annual meeting , Udaipur October 2006
 12. ICOR meeting Trivandrum September 2006

Year 2006

1. FHNO annual national meeting January 2006 Lucknow
2. Oral cancer prevention symposium, University of Malay, Kula Lumpur, Malaysia, January 2006
3. International symposium Rajeev Gandhi center for oncology New Delhi, March

Dr Subramania Iyer

Positions held in national bodies 2004-2006

1. President , Indian Society of Facial Plastic and Reconstructive Surgery
2. Treasurer , Foundation for head and neck oncology
3. Secretary, Foundation for Head and Neck Oncology

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| <p>4. Chairman Continuing Education Committee, association of Plastic surgeons</p> <p>5. Member Governing Council , Foundation for head an neck oncology</p> <p>6. Member Governing council, Indian society of Facial plastic and reconstructive surgery</p> <p>7. Member editorial review board , Indian journal of otolaryngolog</p> <p>8. Member editorial review board, Indian journal of plastic surgery</p> <p>9. Organizing secretary, biennial conference of isfprs</p> <p>10. Chairman scientific committee, south zone conference of plastic surgeons Trichur 2006</p> <p>11. Visiting professor, Annamalai university, faculty of medicine 2006</p> | <p>IMA Kerala State annual Meeting, Paravoor April 2004</p> <p>The Foundation workshop in head and neck oncology, Kailash cancer Center, Goraj, Vadodara June 2004</p> <p>National update in Voice rehabilitation in laryngeal cancers-Regional Cancer Center Trivandrum July 2004</p> <p>Indian Society of Oncology National conference and surgical workshop October 2004 Bangalore</p> <p>Surgical workshop in Head and Neck Cancers (FHNO) J.J Hospital Mumbai Oct 28- 29 2004</p> <p>Dr Natarajan memorial Oration-AOI State chapter meeting Trivandrum October 2004</p> <p>Breast Cancer surgery- concepts in reconstruction CME and surgical workshop Medical College Trivandrum Nov 6-7 2004</p> <p>KPSA Instructional course in plastic surgery, Medical college Kottayam December 2004</p> <p>National conference of Maxillofacial surgeons of India Mangalore January 2004</p> |
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Orations / Keynote Addresses/ Faculty member

Year 2004

- National update in Facial Aesthetic Surgery Kochi February 2004
- 2nd Biennial meeting Indian Society of Facial Plastic and Reconstructive Surgery, Kochi February 2004
- The Foundation workshop in Head and Neck oncology King George Medical College, Lucknow March 2004

Year 2005

1. Foundation for Head and neck Oncology -national conference Hyderabad January 2005
2. Update in head and enck Oncology, Medical College Kottayam march 2005
3. Asia pacific congresss in Plastic Surgery

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- Mumbai March 2005
4. International Association of Oral Oncology-International oral cancer Congress Crete Greece April 2005
 5. Second national meet HN-COG Mumbai June 2005
 6. Update in reconstructive microsurgery –applications in head and neck cancer surgery Regional Cancer Center Trivandrum July 2005
 7. KPSA Instructional course in basic sciences, Trivandrum August 2005
 8. National Update in ENT, Armed Forces Medical College Pune October 2005
 9. Venkitamma Oration-AOI Andhra Pradesh state meeting Tirupati September 2005
 10. AOI Kerala State chapter meeting Manjeri October 2005
 11. Skull base Society of India national meeting, Kochi October 2005
 12. Foundation workshop and update in head and neck Oncology Gawhati, November 2005
 13. KPSA Instructional course in Plastic surgery , Kochi December 2005
 14. Head and neck oncology update meeting Tata Memorial Hospital, Mumbai December 2005
- 2006**
1. FHNO national conference Lucknow Jan 2006
 2. AOI national conference Lucknow Jan 2006
 3. ISFPRS Biennial conference Mumbai February 2006
 4. Biennial conference of Indian Society of Microsurgery Coimbatore February 2006
 5. National Update on cancer reconstruction Goraj Vadodara March 2006
 6. International conference in head and Neck Cancer Rajeev Gandhi Institute Mumbai March 2006
 7. National update and surgical workshop in head and neck oncology- Medical College Hospital, Srinagar June 2006
 8. FACE workshop Kothamangalam May 2006
 9. National update on current status of ENT- Madras ENT Foundation meeting June 2006
 10. CME programme in current treatment strategies- Kerala ENT association Alleppey May 2006
 11. CME programme in ENT-Malappuram ENT association Kottackal June 2006
 12. KPSA Instructional course tiruvalla September 2006
 13. South zone ENT meeting Belgaum, October 13-15
 14. FHNO National meeting udaipur october

2006

Dr Sherry Peter

1. Secretary Indian society of facial plastic and reconstructive surgery
2. Chairman, Scientific committee midterm conference of maxillofacial surgeons, munnar June 2006

Keynote addresses/ lectures/faculty member

1. National Orthodontic conference Davangiree 2004
2. National update on craniofacial anomalies AFMC PUNE
3. South zone meeting of association of plastic surgeons

Dr P.R.Sasidharan

Key note address and Faculty member

1. CME and KPSA instructional course Medical college, Trivandrum September 2004
2. Scientific meeting ENT club, Trichur march 2005
3. ASI Annual conference, Calicut may 2005
4. South Zone meeting of Plastic Surgeons, Trichur May 2006

Dr.Mohit Sharma

Authored first original scientific paper from the department published in the Indian Journal of Plastic Surgery

Dr Sundeep Vijayaraghavan

APSI prize for best AV presentation- national meeting of Association of plastic Surgeons of India meeting New Delhi 2005

Passed Diplomate of National Board (Plastic surgery) –May 2005

Faculty member

CME on Oculoplasty Calicut march 2006

South Zone meeting of Plastic Surgeons, Trichur May 2005

Dr Pramod Subhash

Passed Dip. NB – Diplomate in Oral & Maxillofacial Surgery from the National Board of Examinations New Delhi in October 2005.

Passed MOMS RCPS –Membership examination in Oral & Maxillofacial Surgery, Royal College of Physicians and Surgeons, Glasgow in November 2005. Awaiting enrolment.

Dr P. Arun

Prizes

1. Dr. Gopalakrishna Pillai Memorial Gold Medal for best paper at the Annual conference of Otolaryngologists of Kerala State. Nov 2004
2. Gold medal for best free paper at the Annual Meeting of National Conference of the Foundation for Head and Neck Oncol-

ogy. Hyderabad, Jan 2005

3. PA Shah Best Junior Consultant Award
Paper at the National Meeting of Association of Otolaryngologists of India. Lucknow. Jan 2006.
4. Gold medal for best video presentation
KENTCON, Kochi Sept.2006

Invited lectures

1. District meeting of Indian Medical Association, Malappuram. May 2005
2. Cochin ENT club march 2006

Dr. Sudhir VR

Traveling fellowship from Foundation for Head and Neck Oncology

Dr Krishnakumar. T

Gold medal for best post graduate paper in the annual conference of association of Otolaryngologists , Kerala, manjeri October 2005

Dr Nirav Trivedi

Second best paper Association of Surgeons of Kerala Annual meeting Kochi 2006

Dr Shilpa Chatni

Special mention of excellence- poster presented in FHNO national meeting Lucknow

Papers presented from the department

Year 2004

International meetings

Morbidity profile of facial translocation approaches to the antero-lateral skull base. 6th International Head and Neck Cancer Conference, Washington, August 2004

A combinatorial approach to identify head and neck cancer related genes in cDNA microarray assays. 6th International Head and Neck Cancer Conference, Washington, August 2004

Immunohistochemistry does not upstage lymphatic metastasis in oral cancer sentinel lymph nodes. 6th International Head and Neck Cancer Conference, Washington, August 2004

National meetings

Refinements in fibula flap reconstruction of mandible in oral cancers

National conference of Plastic surgeons Jaipur- October 2004

Botox in masseteric hypertrophy – short paper presentation, APSICON 2004, Jaipur

Refinements in Free fibula flaps in Head & Neck Reconstruction – short paper presen-

tation, Kerala Plastic Surgery Association,
Cochin

Distraction Osteogenesis of the mandible in
TMJ ankylosis –A new protocol- Annual state
conference of Maxillofacial surgeons

Minimally invasive management of the neck
in cancer of the oral cavity: Role of
lymphoscintigraphy: Kerala State Annual
meet of Association of Otolaryngologists of
India. Nov 2004 (gold medal)

Facial Translocation Approach : A Reliable
portal to the Skullbase. Annual Conference
of Association of Otolaryngologists of India,
Kerala Branch. October 2005

Year 2005

International meetings

Refinements in Free fibula flaps in Head
& Neck Reconstruction – Asia Pacific Confer-
ence of plastic Surgeons Mumbai Feb-
ruary 2005

Mandibular reconstructions –refinements in
flaps

International oral cancer congress Crete April
2005

National meetings

Lymphoscintigraphy in Lymphodema – analy-
sis of 80 cases ,Annual Lymphology Society
of India national meeting Kakinada

Management of Trigenocephaly - Annual na-

tional conference of Maxillofacial surgeons
2005

Lymphoscintigraphy in Head & Neck Cancer
FHNO national meeting Hyderabad
January 2005 (gold medal paper)

Reconstruction of skull base after major abla-
tive surgery FHNO national meeting Hyder-
abad January 2005

Uncommon application of free fibula flap Na-
tional meeting of Asso.of Plastic Surgeons
Delhi 2005

Versatility of distraction Osteogenesis for fatal
skeletal deformities – National meeting of
Asso.of Plastic Surgeons Delhi 2005.

Recurrent infantile fibromatosis complete re-
section and immediate microvascular recon-
struction along with growth entire transfer for
mandible — National meeting of Asso.of
Plastic Surgeons Delhi 2005

Lymphoscintigraphy in Lymphodema – pre-
liminary report — National meeting of Asso-
ciation of Plastic Surgeons Delhi 2005

Differentially thinned anterolateral thigh flap
Skull base reconstruction— National meeting
of Association of Plastic Surgeons Delhi 2005

Fate of skinless skin flap inside the oral cav-
ity— National meeting of Association of Plas-
tic Surgeons Delhi 2005(award paper)

Lymphoscintigraphy in Head & Neck Can-
cer national conference of association of

surgeons of India Jaipur December 2005
De epithelized skin flap in oral reconstruction
National conference of association of surgeons of India Jaipur December 2005

Free fibula for mandibular reconstruction
—kerala plastic surgeons association meeting
Calicut April 2005

Reconstruction of skull base after major ablative surgery —kerala plastic surgeons association meeting Calicut April 2005

Distraction Osteogenesis at Lefort-3 level problems and solutions -Annual state conference of Maxillofacial surgeons 2005

Complications of free flap in 81 consecutive cases of Head & Neck reconstruction – Kerala plastic surgeons association meeting Calicut April 2005

Facial translocation approaches to skull base - scientific paper presented at the annual conference of 1st Kerala Association of Oral and Maxillofacial Surgeons, Kottiyam 2005.

Vascular Malformations in the Head & Neck Region

Presentation at the Kochi Society of Oral & Maxillofacial Surgeons, Kochi on November 17th, 2005.

Facial Translocation Approach : A Reliable portal to the Skullbase. Annual Conference of Association of Otolaryngologists of India, Kerala Branch. October 2005

Distraction Osteogenesis for fatal skeletal deformities- Annual Conference of Association of Otolaryngologists of India, Kerala Branch. October 2005(gold medal)

Year 2006

International meetings

Concurrent chemoradiation- Amrita experience – International congress of the Federation of Head and Neck Oncologists –Prague July 2006

National meetings

Facial translocation approaches –analysis of cases FHNO national meeting Lucknow January

Concurrent chemo RT – Amrita experience – FHNO national meeting Lucknow January

Tongue Reconstruction our experience in 85 cases – FHNO national meeting Lucknow, January

Seemingly inoperable head and neck cases FHNO national meeting Lucknow January

ALT Flaps –its use in head and neck FHNO national meeting January 2006

Retrosternal thyroid - Annual Meeting of Association of Otolaryngologists of India. Lucknow. Jan 2006

Applications of Distraction Osteogenesis in the Craniofacial Skeleton. Annual Meeting of Association of Otolaryngologists of India. Lucknow.

know. Jan 2006

Lymphoscintigraphy in Head & Neck Cancer

ORCA meeting-Trivandrum March 2006

Double free flaps –use in head and neck reconstruction- FHNO national meeting

Udaipur October

Functional reconstruction of tongue- FHNO national meeting Udaipur October

Free flaps in Head and Neck Cancer resections role and results FHNO national meeting

Udaipur October

3D CT Reconstruction of Mandible- usefulness in planning of surgery- FHNO national meeting Udaipur October

Speech, swallowing & QOL Assessment in surgically treated tongue cancer patients- FHNO national meeting Udaipur October

Craniofacial resection – morbidity profile - FHNO national meeting Udaipur October

Stomoplasty- a new technique described – South Zone meeting of ENT association Belgaum, October

Thread lift for non cosmetic facial plastic surgery - National meeting of Plastic Surgeons, Hyderabad November

Functional tongue reconstruction- National meeting of Plastic Surgeons, Hyderabad November

Double free flaps in head and neck reconstruction- National meeting of Plastic

Surgeons, Hyderabad, November 2006.

Lymphoscintigraphy –experience of 100 cases in Lymphoedema , South Zone meeting of Plastic surgeons Guruvayoor May 2006.

Use of contour threads in Reconstructive surgery South

Zone meeting of Plastic surgeons Guruvayoor May 2006.

Lymphoscintigraphy in Head & Neck Cancer Association of Surgeons state meeting, Kochi May 2006

Tongue Reconstruction our experience in 85 cases Association of Surgeons state meeting, Kochi May 2006

Video demonstration of temporal bone resection (Gold Medal) - Kerala ENT association meeting Kochi September

Stomoplasty- a new technique - Kerala ENT association meeting Kochi September

Craniofacial resection-our experience Kerala ENT association meeting Kochi September

Publications

Iyer.S, Sharma.M, Sasidharan P.R, Kuriaose M.A Sure closure skin stretching system, our clinical experience – Indian Journal of Plastic surgery , September 2005

EM Elango, H Asita, G.Nidhi, P.Seema,

A.Banerji, MA Kuriakose. Inhibition of cyclooxygenase-2 by diallyl sulfides(DAS) in HEK 293T cells. *Journal of Applied genetics* 45(4),2004.

Kalavathy E., Gangadharan., Kuriakose MA., Change is trends in head and neck cancer in India. *Asia Pacific Journal of Cancer Prevention*.2006

Iyer.S., Reconstruction in head and neck cancers-invited article *Indian Journal of Otolaryngology*
June 2005

Kuriakose MA. Saran R., Oral Cancer Prevention. *Oral and Maxillofacial Surgery Clinics of North America*, 2006

Kuriakose MA., Iyer S., Oral Cavity, *Clinical Scenarios in Surgical Oncology*, Khatri V.,

editor, Elsevier, 2005

Kuriakose MA. Iyer S., Oropharynx, *Clinical Scenarios in Surgical Oncology*, KhatriV.,editor, Elsevier, 2005

Geetha SN., Padmabhan TK., Samuel J., Pavithran K., Iyer S., Kuriakose M., Comparison of acute Toxicities of two chemotherapy schedules in head and neck cancer. *J Cancer Res Ther* 2:100-103, 2006

Department Publications:-

1. Amrita Manual of Microvascular flaps
2. Amrita Postgraduate Teaching Manual in head and neck surgery



Vision For The Future

Our main goal for the future is to strengthen the research program. With a major grant support from the Kerala State Science, Technology and Environment Council (KSTEC) we were able to provide infrastructure for a basic science research laboratory. The focus of our research program is on developing technology for early detection of oral cancer and measures to prevent cancer development. In addition we plan to expand the research activities in tissue engineering to complement the large reconstructive surgery clinical activities.

We also plan to expand the clinical services to start a dedicated 'Aesthetic Surgery

Clinic' incorporating the dermatology services. A dedicated Brachial Plexus Clinic incorporating the Neurosurgery and Rehabilitative services is also being planned. Development of a much needed burns unit is in the priority list for future expansion.

Additional training programs will be started in the future in Plastic and Reconstructive Surgery as DNB program. We have made a proposal for a postgraduate fellowship in craniofacial surgery. With the increase in number of trainees from abroad showing interest in head and neck oncology, we plan to start a regular overseas fellowship program in this field.

Head and Neck Institute



The Team The Inspiration