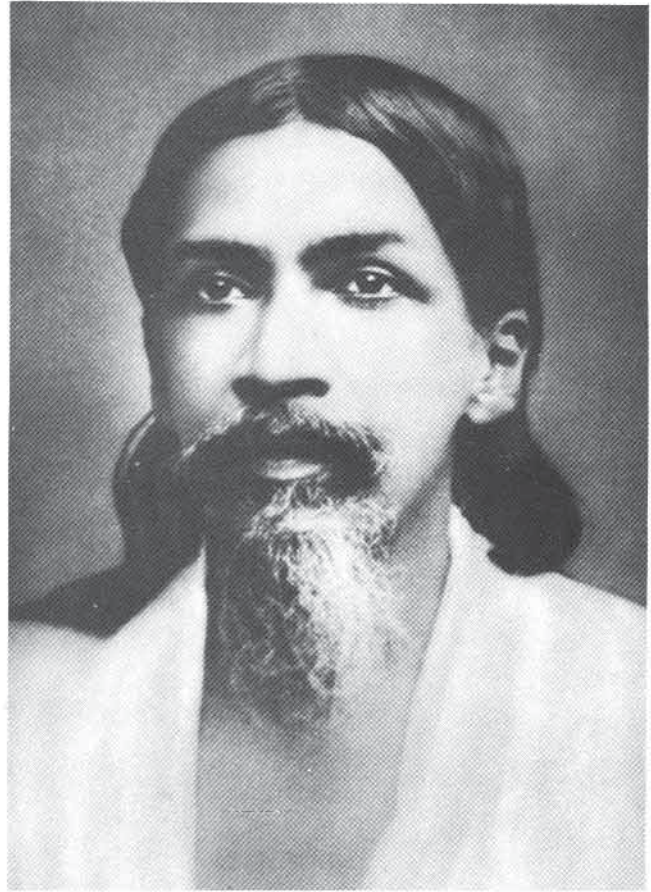


Activity Report 1991

Aravind Eye Hospitals
& Aravind Children's Hospital



The way of Yoga followed here has a different purpose from others, for its aim is not only to rise out of the ordinary ignorant world-consciousness into the divine consciousness, but to bring the supramental power of that divine consciousness down into the ignorance of mind, life and body, to transform them, to manifest the Divine here and create a divine life in Matter. If you can accept the ideal whole heartedly, face all the difficulties, leave the past and its ties behind you and are ready to give up everything and risk everything for this divine possibility then only can you hope to discover by experience the Truth behind it.

Lights on Yoga - Sri Aurobindo

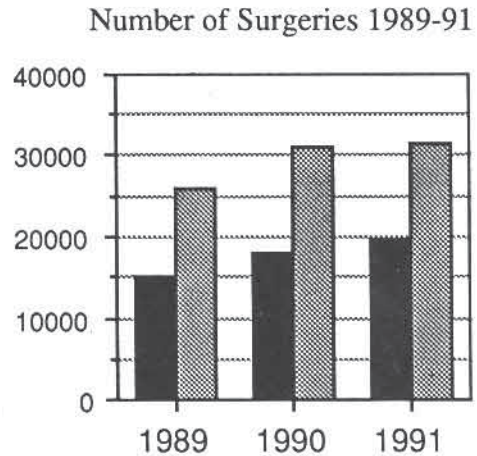
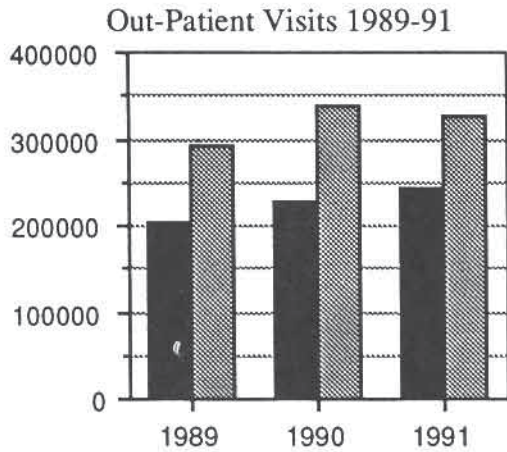
At the end of the 20th century, we are witnessing an effort to meet the challenge of blindness on a global level. There are more than 65 countries with national blindness control programmes. The Lions Clubs worldwide have launched a global programme - SightFirst to conquer blindness. For the first time, the World Bank has come forward to support national blindness control programmes. The time has come to unite all these forces to address the problem of needless blindness in the world.

One of the key inputs to this global effort is appropriately trained human resources. Aravind Eye Hospitals have been training ophthalmic health care providers and are looking for ways of expanding these programmes. These schemes initiated the planning process for the establishment of an Institute of Community Ophthalmology. The Lions International through their SightFirst programme will be the major supporter of this institute, with technical support from Seva Foundation and Sight Savers (Royal Commonwealth Society for the Blind)

Technological advancements have revolutionized the quality of diagnosis and treatment of eye care. Since these technologies originate in the developed countries, the costs of such technologies are appropriate to their economies, which is out of reach for a vast majority of the population in developing countries like India. This has resulted in a widening inequity in the quality of care provided to the rich and poor. This is best illustrated in the use of intraocular lenses in cataract surgery which reaches mainly those who can afford the highly priced IOLs and the corresponding charges. Aravind would like to bring the technological developments in eye care within the reach of all segments of the community. As the first step, Aravind with support from Seva Foundation and Combat Blindness Foundation is establishing a facility to produce low cost, high quality IOLs in India.

1991 was another year of progress and development at Aravind. However life in India was disrupted by the tragic assassination of Rajiv Gandhi. The national election activities, combined with the political turmoil which followed the assassination brought the nation and particularly Tamilnadu to a standstill for several weeks. In spite of the very unsettled conditions, the dedicated and compassionate team at Aravind was able to continue the expansion of its services.

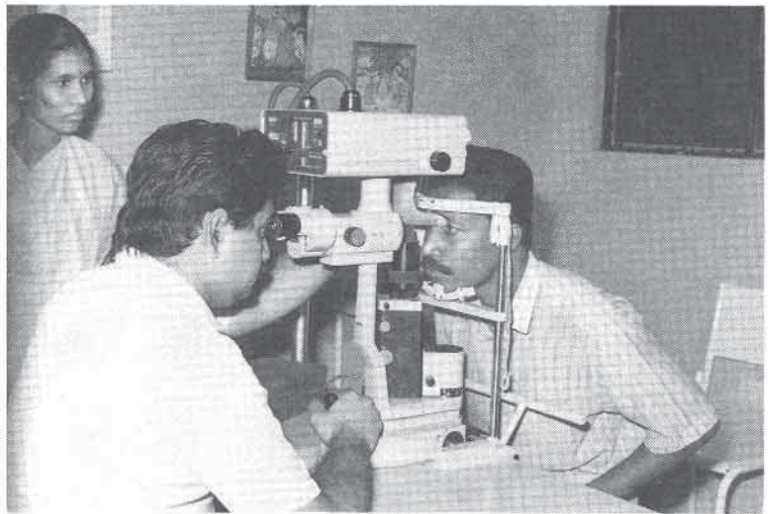
Aravind Eye Hospitals Statistics - 1991



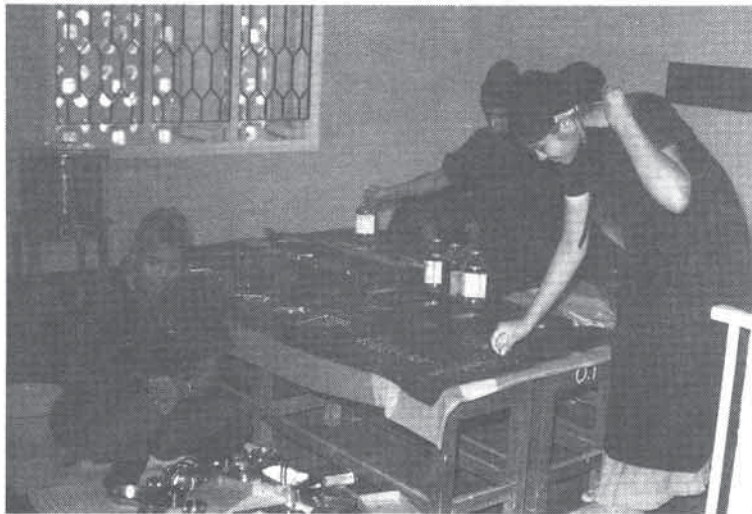
	Madurai	Tirunelveli	Theni	Total
Out-patient visits - Paying	167,884	50,802	22,957	241,643
- Free	212,809	91,482	23,401	327,692
Surgery - Paying	16,447	2,572	492	19,511
- Free	23,110	7,339	1,530	31,979
Hospital out-patient visits	263,518	84,360	30,457	378,335
Eye camp out-patient visits	117,175	57,924	15,901	191,000
Total out-patient visits	380,693	142,284	46,358	569,335
Screening camps	331	293	83	707

Surgery Details

Cataract & other lens removal procedures (without IOL)	23,321	6,618	1,535	31,474
Intra Ocular Lens (IOL)	7,846	1,466	227	9,539
Trabeculectomy	359	80	13	452
Retinal Detachment	401	1	-	402
Vitreous Surgery	331	-	-	331
Membranectomy	61	2	-	63
Squint Correction	262	-	-	262
Keratoplasty & Therapeutic Grafting	65	-	-	65
Ptosis	27	-	-	27
DCR, DCT & other septic operations	1,347	669	158	2,174
Pterygium	297	181	14	492
Laser & Xenon Photocoagulation	1,467	-	-	1,467
Nd Yag Iridotomy	787	133	-	920
Nd Yag Capsulotomy	806	201	-	1,007
Argon laser Trabeculoplasty	43	-	-	43
Other Surgical Procedures	2,137	560	75	2,772
Total Surgery	39,557	9,911	2,022	51,490



Dr. Krishnadas treating a glaucoma patient using the Yag Laser



Nurses Jayalakshmi, Krishnaveni and Kuruvammal cleaning the instruments after Surgery at the Free Hospital Theatre



Suresh, Ganesh and Miha at the Computer Centre

Free Eye Camps



Dr. Natchiar examining patients at an Eye Camp

Over the years, Aravind's camp organising team has been steadily increasing its competency under the constant guidance of Dr. G. Venkataswamy. The local organizations, with guidance from Aravind camp team, take care of organising the eye camp. Some of these voluntary organisations also meet the cost of transporting patients to and from Aravind and the cost of feeding them during their stay at Aravind. The cost of surgery, stay at the hospital and medical care are provided free with subsidies from Sight Savers, Seva Foundation and Combat Blindness Foundation.

Camps - 1991

Name of organization	No. of camps	Total out-patients	Surgery		
			Cataract	Others	Total
Lions Clubs	105	42,439	5,071	139	5,210
Rotary Clubs	42	17,629	1,941	69	2,010
Vivekananda Kendra	190	30,899	2,657	240	2,897
Bhagavan Sri Sathya Sai Seva Orgn.	20	7,114	1,472	47	1,519
Jaycees	18	3,823	309	10	319
Banks	27	4,854	371	18	389
Mills and Factories	28	10,543	966	53	1,019
ASSEFA	6	900	104	5	109
Schools & Colleges	50	8,577	475	17	492
Hospitals	12	4,291	974	57	1,031
Trusts	16	6,329	1,224	34	1,258
Youth & Fans Assns.	37	6,291	365	27	392
Other Religious Organizations	41	12,696	1,315	47	1,362
Other Voluntary Service Orgns.	75	23,356	1,913	68	1,981
Others	40	11,259	791	39	830
Total	707	1,91,000	19,948	870	20,818

Sight Savers- (RCSB) continues to subsidise the surgical cost of camp patients as it had done since the beginning of free eye camps at Aravind.

Aravind Children's Hospital

Aravind Children's Hospital, started in 1984, provides free preventive services and nutritional health education to families apart from out-patient and in-patient facilities.

Some of the services include:

- Pre-natal and post-natal care
- Immunizations
- Rural out-reach programmes
- Formation of Women's Service Groups

In 1991, all the Vitamin A deficiency cases reported at the hospital were closely monitored and treated with Vitamin A.

Night Blindness	20
Bitot's Spots	41
Corneal Xerosis	7
Keratomalacia	18
Corneal Scar	1

The Mothers' club of Indiranagar initiated and supported by Aravind Children's Hospital has moved on to establish a preschool and runs a feeding programme for 80 children with the financial support from Government of Tamilnadu.

Aravind Children's Hospital conducted a study to find out the feasibility of using in the field, a new Vitamin A dispenser developed by UNICEF and WHO.



Dr. Paulraj examining a child



Shanavaz conducting haemoglobin test for a pregnant woman

Statistics-1991

Out-patient Visits	24,209
In-patients	154
No. of camps	53
No. of cases seen in camps	5568
No. of pregnant women examined at the ante-natal clinic	268



Aravind Eye Hospital, Madurai with the out-patient wing on the left and the Free Section on the right



Aravind Eye Hospital, Madurai - Free Section

Events

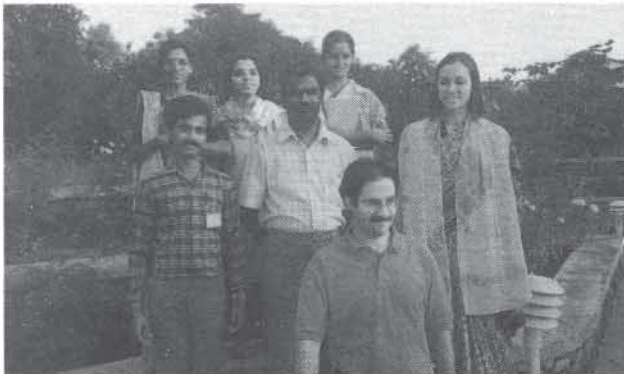
The year 1991 has ushered in a lot of welcome changes at Aravind. The work in the out-patient wing was completed and a separate entrance to the out-patient department was opened in January.

Computerisation of Out-patient registrations & Admissions

All new and review out-patient registrations and admissions have been computerised, and this has increased the efficiency of the staff markedly. Patient bed allotment and reservations which until recently was an uphill task, due to patients outnumbering available beds, has been made easier after computerising the procedure.

Free IOL Camp at Ganeshpuri

David Green of Seva Foundation organised a Free Eye Camp from January 17th to 21st at Mukthananda Ashram at Ganeshpuri.



David Green and Dr. Ramakrishnan with other volunteers at the Ganeshpuri camp

Dr. Natchiar, Dr. Ramakrishnan, Dr. Kim, Dr. Prajna, Saradha Devi and nurses Maheshwari, Vennila, Krishnaveni, Rajalakshmi and Yasodha from Aravind participated in the camp. More than 8,000 patients were examined and 450 of them underwent cataract surgeries with PC IOL implantations using operating microscopes.

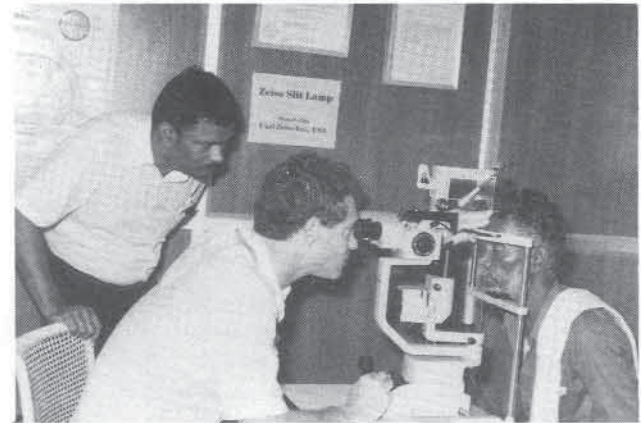
Danida Programme for the Control of Blindness (DANPCB) Meeting at Aravind

Co-ordinated by Dr. Hans Limburg, a team of 11 from the DANPCB visited Aravind on the 16th of August. Aravind staff made a thorough study of their

5 district projects as a preliminary work. At the meeting, the team studied and discussed about Aravind's 'Effective use of Manpower through Large Volume Cataract Surgery'. Aravind looks forward to continued association with DANPCB in their control of blindness work in the 5 pilot districts.

Patient Education:

As part of Patient Education, every Thursday for eight weeks, senior doctors from Aravind gave talks on different eye problems to the public through the All India Radio Station, Madurai.

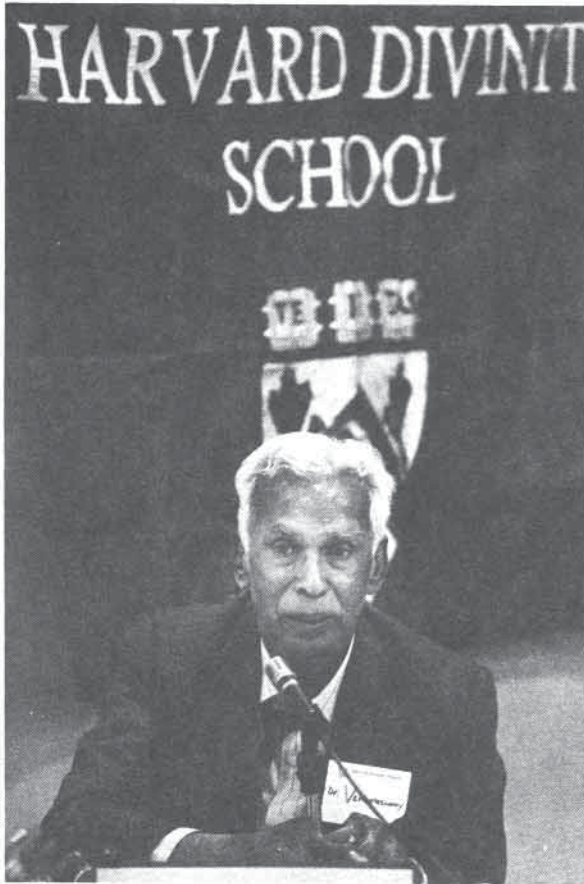


Dr. Ramakrishnan, and Dr. Alan Robin examining a patient using the Slit Lamp donated by Zeiss

Recent Acquisitions

Two new Humphrey's Automated Perimeter, a Zeiss Slit lamp and a Zeiss Fundus Camera were added to the existing diagnostic facilities at the glaucoma centre. They were inaugurated by Dr. Alan Robin on 9th March. Aravind is grateful to Allergan and Zeiss for donating these equipments and to Dr. Alan Robin who made it possible.

Highlights 1991



Harold M. Wit Lecture at Harvard Divinity School

Harvard Divinity School at Cambridge, USA invited Dr. Venkataswamy to deliver the 'Harold M. Wit Lecture' on 'Living a Spiritual Life in the Contemporary Age' on April 10th and 11th.



Dean Ronald Thieman, Dr. Venkataswamy and Mr. Harold Wit at the Harvard Divinity School

His lecture was well received and he was requested to repeat these lectures - to a large group of physicians in Montreal, to Seva supporters in San Francisco and to the Omega Society in Madison.

Aravind Institute of Community Ophthalmology

The idea of starting an Institute of Community Ophthalmology at Aravind was born six years ago during discussions with Dr. Carl Kupfer, Director of National Eye Institute and Mr. Alan Johns, Director of Sight Savers - RCSB. For several reasons the Institute could not be started in a formal way. However over the years, the various activities proposed under the institute were developed and carried out. Aravind has slowly earned a reputation as a premier institute for learning Community Ophthalmology. With the help of Seva Foundation and other well wishers several brainstorming sessions were held to develop the concept of the institute further. A three day workshop was held in October 1990 at Aravind to finalise the details. The workshop was attended by several members of Seva Foundation, Seva Service Society, WHO and University of Michigan.

Around this time, the Lions Clubs all over the world decided to launch a global effort called "SightFirst" to combat the problem of Blindness. An institute to develop appropriate manpower was a necessity in their global effort and hence Aravind's initiative was of particular interest to them. So in consultation with the local and international Lions, a proposal was prepared. The proposal was reviewed by the Lions proposal review committee in August 1991 at Oakbrook, Illinois, USA. R.D. Thulasiraj was invited by the Lions International to USA to present the proposal to the review committee and provide necessary clarifications. Following the presentation, the review committee and the Lions International unanimously agreed to fund the entire project for a period of five years. This institute will be a major milestone in the growth of Aravind and in the realm of Community Ophthalmology.

Research Activities

Vanadium Stainless Steel Suture Project

The Vanadium Stainless Steel Suture Clinical Trial was completed in June 1991. The purpose of this clinical trial was to evaluate the safety and efficacy of VSS sutures in cataract surgery and their potential use in large scale cataract relief services. A total of 3,547 patients were randomly allocated between the VSS suture group and the control group (conventional silk sutures).

As far as the safety/efficacy criteria were concerned, the present study indicated that there was no significant difference between the two groups. VSS sutures have been found easy to place after a period of training, but the duration of surgery is increased by 20%.

Several other positive outcomes have been recognized such as lack of local reaction (VSS is biologically/biochemically inert), the obtaining of an excellent wound closure and virtual absence of serious post-operative complications.

A real concern with the use of VSS suture procedure had been the increased occurrence of astigmatism post-operatively. However the surgically induced astigmatism was easily reduced by removing one or more sutures.

Total no. of cases	3547
Total no. of cases examined	
3rd week	3395 (95.7%)
6th week	3481 (98.1%)
Total no. of cases not examined	152

Mitomycin C in Glaucoma Filtering Surgery

Mitomycin is an anti-fibroblastic agent that prevents proliferation of fibroblasts thus causing a delay in wound healing. This can be used to advantage in glaucoma filtering surgery wherein a fistula intentionally created by the surgeon, maintains patency.

Mitomycin has the advantage over conjunctival anti-fibroblast substances like 5-fluorouracil in that it suffices to use it just once intra-operatively over the sclera.

A preliminary study on 90 patients at the Glaucoma centre established the gains in using Mitomycin C in glaucoma filtering surgery. Aravind has proposed to undertake a prospective, double blind randomised clinical trial to analyse effect of various concentration of Mitomycin on primary glaucoma filtering surgery. Dr. Alan Robin, Associate Professor of Ophthalmology, John Hopkins University will provide the technical support and Dr. Ramakrishnan, chief of Glaucoma Service, Aravind will be the Principal Investigator.



Dr. Ramakrishnan, Dr. Alan Robin and Dr. G. Venkataswamy at the Glaucoma Centre

Education Programmes

Medical Officers, Fellows, Postgraduates and Senior House Surgeons who joined Aravind in 1991

Retina & Vitreous Fellowship

Dr. P. Vasudeva
Dr. Madhavi G Hirode
Dr. S. Meena Devi

IOL & Anterior Segment Surgery Fellowship

Dr. Deve Prasad Kar
Dr. Arup Chakrabarti
Dr. Aniruddha Raghvendra Nalgirkar

Cornea Fellowship

Dr. C.V. Gopal Raju

Paediatric Ophthalmology Fellowship

Dr. P. Lakshmana Rao

General Ophthalmology Fellowship

Dr. S. Bala Subrahmanya
Dr. Maya Thomas
Dr. Javeed M Khan
Dr. Anuradha Manohar Chavan

Medical officers

Dr. M.T. Ramesh Dr. B. Niranjankumar
Dr. K.M. Selvakumar Dr. D. Dwaraknath
Dr. K. Lakshmana Murthy

Diplomate of the National Board

- Dip. N. B.(Ophthalmology)

Dr. M.T. Ramesh
Dr. D. Chaitanya Savur
Dr. R. Kim
Dr. V. Narendran
Dr. M. Louis David Amalraja

Diploma in Ophthalmology (D.O.) Course

Dr. N.V. Prajna
Dr. J. Lakshmanan
Dr. S. Kalpana
Dr. S. Dhanalakshmi
Dr. J. Damaris Magdalene
Dr. V.S. Venkata Raghavan

Senior House Surgeons

Dr. R. Deepti Dr. P. Chitra Rajalakshmi
Dr. H. Bharathi Dr. T.R. Indumathi
Dr. G. Rohini Dr. R.K. Geetha
Dr. Malini K Nair Dr. G. Mohan kumar
Dr. D.P. Prakash Dr. N.V. Vinod Kumar

Medical Education

Aravind is recognized

- as a postgraduate teaching hospital by the Medical Council of India
- by the Dr. M.G.R Tamilnadu Medical University for the Diploma in Ophthalmology Course
- by the National Board of Examinations for the Diploma in National Board of Examinations Course
- as a centre for post residency sub-speciality fellowships in
 - Retina & Vitreous Diseases
 - Intraocular Lens Implantation and Anterior Segment Surgery
 - Corneal diseases and
 - Paediatric Ophthalmology

Speciality Training

Aravind doctors Dr. N. Nagappan and Dr. R. D. Ravindran spent 16 weeks in the US to get further training in their respective speciality fields.

For speciality training in Orbital, Eye plastic, Lid reconstructive surgeries and lacrimal diseases Dr. N. Nagappan underwent training in the following institutes:

- Pacific Medical Centre, San Francisco
- Wilmer Eye Institute, John Hopkins, Baltimore
- Massachusetts Eye & Ear Infirmary, Boston
- University of Wisconsin, Madison

Dr. R. D. Ravindran focussed on modern diagnostic and treatment methods in the field of Retina and Vitreous in the following institutes:

- Massachusetts Eye & Ear Infirmary, Boston
- Retina Associates, Boston
- Wilmer eye Institute, John Hopkins, Baltimore
- Wills Eye Hospital, Philadelphia
- University of Wisconsin, Madison

Ophthalmic Nurses Training

Twice in a year Aravind interviews and recruits 25 high school graduates and trains them in basic nursing with special focus on ophthalmic care. This on the job training is for three years.

Residents from the USA who visited Aravind in 1991:

Illinois Eye & Ear Infirmary, Chicago

Dr. Gwen Noble Dr. Mark Ros
Dr. Benjamin H. Ticho Dr. Brian Biesman
Dr. Saran Dr. Mockovak,
Dr. David Hillman Dr. Eugene Liu,
Dr. Balaji Gupta Dr. Peter Rabiah

Massachusetts Eye & Ear Infirmary, Boston

Dr. Annabelle Okada

West Virginia University, West Virginia

Dr. Mark Mayle

St. Vincents Hospital, New York

Dr. Michael Singer Dr. Neal Tolchin
Dr. Harry J Coniaris

Brookdale Hospital Medical Centre

Dr. Jeffrey A Spitzer

Albany Med. College, New York

Dr. Naresh Mandava

Sinai Hospital, Baltimore

Dr. David J. Parks

Ophthalmic assistants from other organisations trained at Aravind in 1991

Who Fellowship: From Maldives

Shafeega Hussain Fulhu Zulfa Mohamed

Seva Foundation: From Nepal

Purusottam Pandey Suresh Reyamajhi
Ramesh Prasad Gautam Chitra Kern

Nepal Netra Jyothi Sangh: From Nepal

C.R. Pant C.R Choudhary

Masters in Hospital Management (MHM) Course
Madurai Kamaraj University in collaboration with Aravind offers this two year course. Helen Keller International, USA supported the development of this program.

In January 1991, visiting epidemiologists from USA Dr. Jill Joseph and Dr. Joanne Natale designed a study to give the MHM students a practical knowledge in epidemiology. A series of ten questions developed in Bangladesh for rapid screening of children for serious disabilities (Zaman et al., International Journal of Epidemiology 1990) was used. Mothers of two to nine year old children were interviewed by the students. Those children identified with disabilities were referred to paediatricians for further care.

Visiting Ophthalmic Residents

As part of their training, every year, residents from various university hospitals in the USA spend two to four weeks at Aravind.

Aravind as a Resource Centre

Many national and international institutions now recognise Aravind as the resource centre for community ophthalmology. World Health Organisation (WHO), Helen Keller International (HKI), Sight Savers and Seva Foundation for example, send ophthalmic staff to Aravind for long term training or short visits to observe Aravind's work. Among them are the following:

Sight Savers

Dr. Atul Narain and Mr.S.S. Bajaj Lions Eye Hospital, Calcutta.

Dr. Partha Biswas, Chief Medical Officer, Netra Jyoti Seva Mandiram, Rajgir was at Aravind for two months as an observer.

Dr. Manjusha, Sewa Rural Hospital, Jagadia, Gujarat
Mr. Narain Bhai, Gandhi Mission Trust, West Bengal
Mr. Tribhuwan Prakash and Dr. Debsish Banerjee, Purulia

Dr. Dhanuka and Mr. Gajanand Agarwal, Rotary Club of Cuttack Charitable Trust - Cuttack

Helen Keller International (HKI)

Dr. Farida, Dr. Mieceke and Mr. Azral from Indonesia

Seva Foundation

Dr. Dhittal & Mr. Shraavan Chowdhury, Nepal

Conferences held at Aravind

Workshop on Glaucoma

March 9th and 10th

Course Director: Dr. R. Ramakrishnan

Co-ordinator: Dr. Krishnadas

Aravind's first Glaucoma workshop was held on 9th and 10th of March in the new air-conditioned auditorium completed in time for the event. 75 delegates from different parts of the southern states participated in the course.

Guest faculty:

Dr. Alan Robin

Associate Professor of Ophthalmology, Johns Hopkins University School of Medicine, Baltimore

- *Early diagnosis of glaucoma*
- *Optic nerve head layer changes in glaucoma*
- *Glaucoma filtering procedure*
- *Laser therapy in glaucoma*

Dr. Ravi Thomas

Professor of Ophthalmology, Schell Eye Hospital, Christian Medical College, Vellore

- *Current concepts in medical management of glaucoma*
- *Factors favouring success in trabeculectomy*
- *Shunt procedures in glaucoma*

Dr. Geetha Menon

Vijayshree Hospital, Trichur

- *T-seton in shunt surgery*

Aravind faculty:

Dr. P. Namperumalsamy

- *Retinal vascular disorders and glaucoma*

Dr. Srinivasan

- *Diagnostic problems in differentiating congenital glaucoma from congenital endothelial dystrophy*

Dr. Vijayalakshmi

- *Diagnosis and management of congenital glaucoma*

Dr. Ramakrishnan

- *Pathogenesis of optic disc cupping in glaucoma*
- *Traumatic glaucoma*
- *Uveitis and glaucoma*

Dr. Nagappan

- *Pathophysiology and management of angle closure glaucoma*

Dr. Ravindran

- *Aphakic and pseudophakic glaucoma*

Dr. Krishnadas

- *Low tension glaucoma*

Role of Vitamin A in Prevention of Nutritional Blindness - an exhibition

March 22nd

Aravind Children's Hospital conducted this exhibition, highlighting the importance of Vitamin A in the prevention of Nutritional Blindness and also its role in protecting the body from respiratory and gastro-intestinal disorders. A video film on the work at the Nutrition Rehabilitation Centre (NRC) was shown. Paediatricians from Madurai and delegates from the National Institute of Nutrition (NIN), Hyderabad attended.

Posters illustrated

- *the metabolism and utilisation of Vitamin A in the body*
- *foods rich in Vitamin A and*
- *methods of preparing Vitamin A rich foods*

Workshop on 'Vitamin A Deficiency and Its Control'

April 3rd, 4th and 5th

This workshop was organised at Aravind from 3rd to 5th April. 23 participants from all over India attended the workshop. Dr. K. B. Banerjee, Deputy Commissioner, Ministry of Family Health and Welfare gave the inaugural address.

Dr. Rajammal .P. Devadoss

Vice Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

- *Intervention for promoting dietary intake of Vitamin A in rural areas*

Dr. Lalitha Bhattacharjee

Food Science and Nutrition Department, Sir Vithaldas Vidyavihar, Bombay

- *Intervention for promoting dietary intake of Vitamin A in urban areas*

Dr. B.K. Nandi,

Technical Advisor, Food and Nutrition Department, Government of India

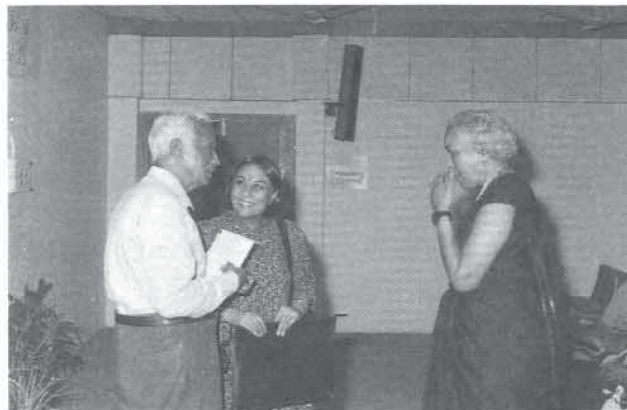
- *Role of Food and Nutrition Department*

Dr. T.V. Sekar

P.T.V Clinic & Endoscopy

- *Biotechnology in cultivation of vegetables*

At the 'Vitamin A Deficiency and its Control' Workshop . .



*Dr. G. Venkataswamy , Dr. Saroj Pachauri and
Dr. Lakshmi Rahmathullah*

- *Supplementation to continue for the target group*
- *Introducing Vitamin A rich foods in social forestry programmes*
- *Improving database system*
- *Package service with other social welfare oriented programmes*
- *Involvement of NGO*
- *Horticultural intervention*
- *Behavioral change through health education*
- *Evaluation*
- *Rural development with special reference to field situation*

The Second Data Monitoring Committee for the Vanadium Stainless Steel Suture Project Meeting

17th of April

The meeting was attended by the Committee members:

Dr. G.N. Rao, LV Prasad Eye Institute, Hyderabad
Dr. C.P. Gupta, Basant Eye Hospital and Contact Lens Centre, Madras

Mr. Ramanujam, Institute of Rural Health & Family Welfare, Gandhigram

Dr. Pararajasegaram and

Dr. Dominic Negrel from World Health Organisation and the following Project staff at Aravind

Dr. P. Namperumalsamy

R. D. Thulasiraj

Dr. M. Srinivasan

Dr. Datta

Raheem Rahmathullah

Ganesh Babu



*Dr. Rajammal P. Devadoss, Dr. G. Venkataswamy and
Dr. Lalitha Bhattacharjee at a scientific session*

Dr. Vijayaraghavan

Asst. Director, National Institute of Nutrition, Hyderabad

- *National Institute of Nutrition's stress on food as the source of Vitamin A*

Dr. Sheila Vir

Asst. Project Officer, Nutrition Section, India Country Office, UNICEF - Delhi

- *Strategy for control of Vitamin A deficiency*

The discussion on the strategies to be adopted in the prevention of Vitamin A led to the following recommendations :

- *Intensifying efforts on nutrition education*
- *Improvement in delivery system of Vitamin A to the beneficiaries*
- *Community participation including introducing an effective reporting system*

The project protocol was presented with slides by the following:

Raheem Rahmathullah - *Overview*

Dr. M. Srinivasan - *Surgical procedure*

Dr. Datta - *Post-operative follow-up*

R. D. Thulasiraj - *Data Management*

Dr. Datta - *presented a report on action taken based on the recommendations made at the first Data Monitoring Committee meeting.*

Since the data gathering had been completed, it was presented in sections as baseline data, efficacy, safety data, surgery data and additional analysis.

The committee also appreciated the high coverage of review patients both during 3rd week (97.3%) as well as on the 6th week (98.1%)

Workshop on Strabismus and Paediatric Ophthalmology

August 17th and 18th

Course Director: Dr. P. Vijayalakshmi.

Co-ordinator: Dr. Santosh S. Adke

Lectures, Surgical demonstrations and Video film shows were included in the course. 74 delegates from different parts of India participated in it.

Guest faculty :

Dr. Prem Prakash

All India Institute of Medical Sciences, New Delhi

- *Clinical features and Management of Amblyopia*
- *Management of Vertical Squint including DVD*
- *Motility problems and Management in Duane's and Brown Syndromes*

Dr. T. Surendran

Sankara Nethralaya, Madras

- *A & V Syndromes and its Management*
- *Fitting Contact lenses in Children*
- *Surgery in Paretic Squint Role of Botulinium in Strabismus*

Aravind faculty:

Dr. P. Namperumalsamy

- *Differential Diagnosis of Leukocoria.*

Dr. G. Natchiar

- *Neuro-Ophthalmic problems in children*

Dr. P. Vijayalakshmi

- *Diagnosis of Horizontal Squint*
- *Preoperative decision making in squint surgery*
- *Evaluation and Management of Congenital Cataract*
- *Investigation of a Paretic Squint*

Dr. Banumathi

- *Anatomy of Extraocular muscles*

Dr. Santosh S. Adke

- *Clinical features and Management of Accommodative Esotropia*
- *Assessment of Congenital Ptosis and its Management*
- *Diagnosis of Superior Oblique Muscle Palsy*
- *Microtropia - Clinical features*

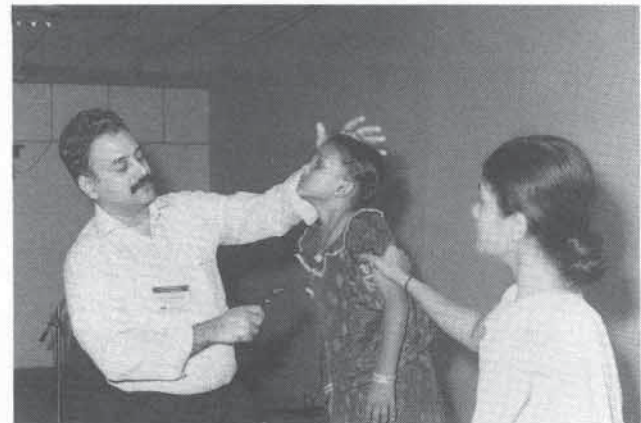
Dr. Ramakrishnan

- *Clinical features and Management of Congenital Glaucoma*

At the Strabismus and Paediatric Ophthalmology Workshop



Dr. Vijayalakshmi with Dr. Namperumalsamy, Dr. Surendran and Dr. Prem Prakash



Dr. Surendran demonstrating examination of a child

Workshop on Neuro-Ophthalmology

October 19th and 20th

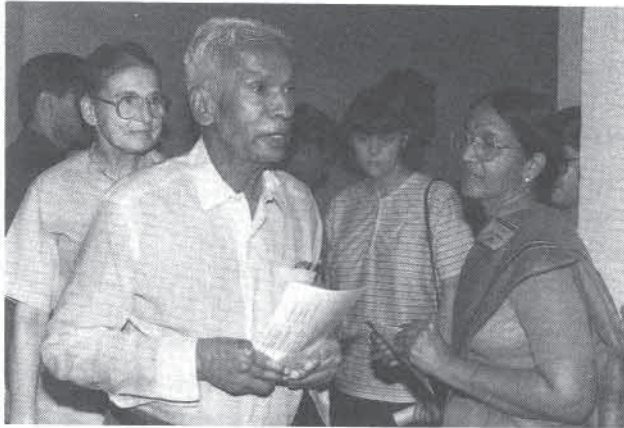
Course Director: Dr. G. Natchiar

Co-ordinator: Dr. Selvi Selvakumar

Aravind faculty and other eminent consultants in Neurology and Neurosurgery participated in the workshop. The following are the papers presented at the conference.

Dr. G. Natchiar

- *Importance of Neuro-ophthalmology*
- *Guidelines to Neuro-ophthalmic examinations*
- *Field defects in chiasmal and post-chiasmal lesions*



Dr. G. Venkataswamy and Dr. Natchiar at the Neuro-ophthalmology Workshop

- Dr. P. Vijayalakshmi
- *Infranuclear eye movements*
- Dr. P. Namperumalsamy
- *Optic Neuritis*
- Dr. Banumathi
- *Anatomy & Blood supply of visual pathway*
- *Surgical anatomy of orbit*
- Dr. Ramakrishnan
- *Optic Atrophy*
- Dr. Harihara Subramaniam
- *Neurophysiology of vision*
- Dr. Natarajan
- *Pupils and its reactions*
- Dr. Krishnadas
- *Visual Fields : Techniques and Analysis*
- Dr. P. Subburam
- *Pituitary Adenomas and Craniopharyngiomas*
- *Pseudo Tumor Cerebri*
- *Head Injury : Ocular Manifestations*
- Dr. V. Jayakumar
- *Nystagmus*
- *Supranuclear Eye Movements Systems - Clinical significance*
- *Ocular myasthenia and myopathy*
- Dr. Sivakumar
- *Headache : Diagnostic approach*
- Dr. Ravindran
- *Pathogenesis of Papilledema*
- Dr. Muthukumar
- *Neuro-ophthalmic manifestations of cerebral hemisphere lesions*
- Dr. Reginald
- *Neuro-ophthalmic manifestations of vascular lesions of the brain*

- Dr. B.K. Misra
- *Neuro-ophthalmic manifestations of C-P angle tumors*
- *Surgical approaches to the orbit*

- Dr. Nagappan
- *Proptosis of Neuro-ophthalmic interest*

- Dr. Ravi Mandalam
- *Radiology in Neuro-ophthalmology*

India Workshop for PVOs on Vitamin A & Child Survival

November 13th, 14th & 15th

This course was conducted at Aravind with sponsorship from VITAP of Helen Keller International. Twenty eight participants from India, Sri Lanka, Nepal and Indonesia attended the meeting.

At the VITAP Workshop . . .



Dr. Lakshmi Rahmathullah with Mr. Nagarajan, Field Director of Sight Savers and Mr. R. D. Thulasiraj



Dr. Banerjee

Dr. G. Venkataswamy,
- *Overview of Vitamin A Deficiency - Historical perspective and recent trends*

Dr. Lakshmi Rahmathullah,
- *Effect of small dose of Vitamin A on morbidity and mortality*
- *Vitamin A resources - Aravind*

Dr. Mumtaz Ahmed
- *Vitamin A and Diarrhoea*

Dr. Subarna Khatri
Director, NNIPS, Nepal
- *Vitamin A Supplementation on mortality*

CARE Representative
- *Vitamin A and acute Respiratory Infection*

Mr. David Rosen
VITAP, Manager of Assessment and Evaluation/HKI
- *Assessment of VAD by NGOs*
- *Management of NGO Vitamin A Deficiency programmes : Monitoring and Evaluation*

Dr. Roy Tjong
VITAP Regional Co-ordinator, HKI, Indonesia
- *Overview of Vitamin A Strategies*

Ms. Nancy J. Hasselow
VITAP, Deputy Director/HKI
- *HKI/VITAP and other resources*
- *Summary of group meeting outcomes/plan of action to assist NGOs with Vitamin A program needs*

Dr. K.B. Banerjee
Deputy Commissioner, Maternal and Child Health,
Government of India
- *Overview of the Vitamin A deficiency problem in India and National Vitamin A Programme in India*

Course on Corneal Diseases and Corneal Surgery

7th and 8th December

Course Director: Dr. M. Srinivasan

Co-ordinator: Dr. Prabjot Channa

Guest Faculty:

Dr. Gilbert Smolin
Francis I. Proctor Foundation, San Francisco, California, USA
- *Defence Mechanism of the eye*
- *Cornea and systemic disease*
- *Treatment of Immunologic External diseases*
- *Dystrophies and degeneration*
- *Corneal graft rejection*

Dr. John. P. Whitcher
Francis I. Proctor Foundation, San Francisco,
California, USA

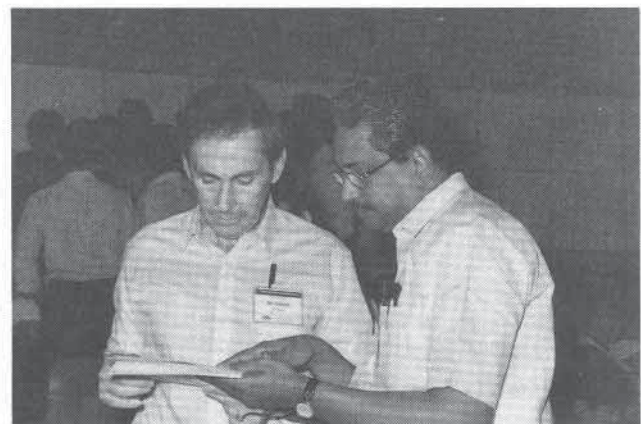
- *Bacterial Corneal Ulcers*
- *Endophthalmitis*
- *Dry Eye*
- *Purulent Conjunctivitis*

Dr. Smolin & Dr. Whitcher
- *Herpes Zoster*
- *Herpes simplex keratitis*

At the Corneal Diseases and Surgery Course . . .



Dr. Whitcher



Dr. Smolin and Dr. M. Srinivasan

Aravind Faculty

Dr. Raju
- *Development and congenital anomalies of cornea*

Dr. Raju & Dr. Channa
- *Refractive Keratoplasty*

Dr. Srinivasan
- *Pterygium*
- *Chemical injuries to the eye*
- *Perforating injuries to cornea*
- *Fungal Keratitis*
- *Protozoal and nocardial corneal infections*

Dr. Channa
- *Corneal complications in contact lens wearers*

Conferences Attended

The 49th Annual Conference of the All India Ophthalmological Society

Bangalore,

January 5th to 8th

Dr. G. Venkataswamy

- *Crusade against cataract - Adenwala Oration*
- *Organising effective and safe surgery in eye camps*

Dr. P. Namperumalsamy

- *Convenor at the instruction course on Pars plana surgery and at the update session on Eales' Disease - Recent Pathogenesis & Management*
- *Panelist at the instruction course on Endophthalmitis & its Management and at the Symposium on Vitreous-haemorrhage*

Dr. G. Natchiar

- *Secondary IOL Implantation*
- *Management of Posterior Capsular Rupture*
- *Neuro-ophthalmology in Ophthalmic Practice*
- *Management of IOL Implant complications*
- *Management of emergencies during cataract surgery - Round table conference*

Dr. M. Srinivasan

- *Corneal transplantation at the Symposium on Ophthalmology 2000*
- *Uses of under-rated corneas in the third world at the Eye Bank Association of India meeting*
- *Penetrating Keratoplasty using corneal tissue from live Keratoconus patients*
- *Contralateral Auto Keratoplasty - Scientific Exhibit*

Dr. P. Vijayalakshmi

- *Use of 1 mm silicone rod as frontalis sling at the Oculoplastic Association of India-Meeting*
- *Diagnosis & Therapy - Horizontal squint*
- *Anatomy of Lacrimal apparatus at the instruction course on Lacrimal sac surgery*
- *A clinical study on 38 cases of extraocular cysticercosis - scientific exhibit*

Dr. Ramakrishnan

- *Nd yag laser iridotomy in acute congestive Glaucoma*
- *Lateral orbitotomy - Results & Lessons*
- *IOL Implantations in camps in rural Maharashtra*

Dr. R. D. Ravindran

- *Evaluation of corneal Astigmatism following wound closure with continuous suture*
- *Evaluation of topical non-steroidal anti-inflammatory drug in extracapsular cataract surgery - scientific exhibit*
- *Free floating pigmented vitreous cyst - scientific exhibit*

Dr. Taraprasad Das

- *Visual prognosis in macula involved pseudophakic retinal detachment*
- *Vitreotomy in proliferative diabetic retinopathy - a 10 year study*

Dr. S. Manohar

- *Significance of wound site microbial study in prevention of infection following scleral buckling - scientific exhibit*

Dr. Sukumar

- *Cataract Free Zone*

Dr. Donald F. Lobo

- *Visual prognosis in macular split retinal detachments*

Dr. Shankerlingam

- *Vitreoretinal complications following Nd yag laser capsulotomy - longterm follow up*

Dr. R. R. Manohar

- *Ophthalmoplegias - How far should we investigate?*

Dr. Subburam

- *Neurosurgical approach to orbital tumours*

Symposium on Retinal Detachment

Retina Associates, New Delhi
March 2nd and 3rd

Dr. P. Namperumalsamy

- *Etiopathogenesis, surgical steps and management of choroid with Giant Dialysis*

Eye Donor Association Meeting

Cuddalore
March 7th

Dr. Krishnadas

Workshop in Pars Plana Surgery

Retina Foundation, Ahmedabad
March 23rd and 24th

Dr. P. Namperumalsamy

- *Anterior Segment Indication*
- *Live Surgery - Lensectomy*
- *Vitreotomy - Instruments over the years*
- *Live Surgery - PDR*
- *Macular Hole & Giant Tears*
- *Interesting Indication - Worms*

Clinical Meeting of Ophthalmologists Association

Erode
April 7th

Dr. P. Namperumalsamy

- *CRV occlusion*
- *Central serous retinopathy*
- *Diabetic retinopathy management*

Harvard Divinity School 'Harold M. Wit Lecture'

Harvard School of Divinity, USA
April 10th and 11th

Dr. G. Venkataswamy

Living a Spiritual Life in the Contemporary Age

14th IVACG Meeting

Guayaquil, Ecuador
June 17th to 21st

Dr. Lakshmi Rahmathullah presented posters depicting 'Community Participation in the Vitamin A Research Project' at the Poster session on morbidity & mortality and community participation.

Conference of the Poona Ophthalmological Society

Pune
July 20th & 21st

Dr. P. Namperumalsamy

- *Retinoblastoma - Differential Diagnosis*
- *Eales' Disease*
- *Management of Diabetic Retinopathy*

Course on Cornea and Eye Banking

Regional Institute of Ophthalmology, Egmore
July 27th & 28th.

Dr. M. Srinivasan

- *Paediatric Keratoplasty*
- *Fungal Corneal Ulcers*
- *Corneal Erosion*

Course on "Blindness in Children"

I A P Madurai Chapter
August 18th

Dr. M. Srinivasan
- *Blindness in Children*

Goa Ophthalmic Association Meeting

Goa
August

Dr. G. Venkataswamy
- *Recent Trends in Ophthalmology*

The 39th Annual Conference of Tamilnadu Ophthalmic Association

Coimbatore
September 13th to 15th

Dr. P. Namperumalsamy
Convenor for the first session on '*Vascular Retinopathies*'.

Dr. Ajoy Paul
- *Eales Disease - Clinical Picture and Management*

Dr. Shankerlingam
- *Retinal Arterial Occlusion & Ocular Ischaemic Syndrome*

Dr. P. Vijayalakshmi
- *Complications of Contact Lens and Lens Spoilage*
- *Refraction in Aphakia and Pseudophakia*
- *The Dissatisfied Refraction Patient*

Dr. C. Premachandran
- *Effect of IOL Optic Design on Posterior Capsular Opacification*

Dr. Ramakrishnan
- *PC IOL Implantation in Lens Induced Glaucoma*
- *PC IOL Implantation combined with trabeculotomy in Advanced Glaucoma*
- *Retrospective Analysis of 200 Cases of Phacomorphic Glaucoma*

Dr. Santosh S. Adke
- *Clinical Evaluation of Superior Oblique Palsy*
- *Use of 1 mm Silicone Rod for Frontalis Suspension*

Dr. V. Chittibabu
- *Pseudophakic Pupillary Block Glaucoma following PC IOL Implantation*

Dr. Kar
- *Secondary IOL Implantation*

Dr. Prabjot Channa
- *Climatic Droplet Keratopathy*

Dr. M. Srinivasan
- *Epidemiology of Macular Corneal Dystrophy*
- *Contralateral Autokeratoplasty*

Pan-Ophthalmologica 1991

Steve Charles Alumni Club & Federation of Ophthalmic Research & Education Centres in co-ordination with Eye Institutes at Madras, Ahmedabad and Trichy.
Madras
September 6th to 8th

Dr. P. Namperumalsamy
- Chairman for the Panel Discussion on '*Vitreo-Retinal Diseases*'
- *Eales Disease*

Dr. G. Natchiar
- Moderator and Panelist for the discussion on '*Complications of IOL*'.
- *ECCE with Can Opener Capsulotomy and PC IOL Implantation*

- Women Doctors' Association Meeting**
Madras
September 7th
- Dr. G. Natchiar
- *Intraocular Lens - A great turn for Ophthalmic patients'*
- Lions SightFirst National Workshop**
Delhi
October 25th & 26th
- Dr. G. Venkataswamy
- *Orientation towards Community Service*
- *Development of Support Service*
- R. D. Thulasiraj
- *Management of Service delivery in Camps and Hospitals*
- Delhi Ophthalmological Society Meeting**
Delhi
October 27th
- Dr. G. Natchiar
- *Overview of IOL Implantation with special reference to IOLs in children*
- Workshop on Pars Plana Surgery - Basics & Advanced**
Retina Foundation, Ahmedabad
December 21st and 22nd
- Dr. P. Namperumalsamy
- *Anterior Segment Indication*
- *Live Surgery - Lensectomy*
- *Vitreotomy - Instruments over the years*
- *Live Surgery - PDR*
- *Macular Hole & Giant Tears*
- *Interesting Indication - Worms*
- Symposium on Paediatric Ophthalmology**
Ahmedabad Academy of Ophthalmology, Ahmedabad
November 23rd
- Dr. P. Vijayalakshmi
- *Visual acuity testing in children*
- *Refraction in children*
- *Management of congenital cataract and aphakia in children*
- 45th Tamilnadu IMA State Medical Conference**
Indian Medical Association, Salem Branch
November 15th to 17th
- Dr. G. Natchiar
Guest Lecture on 'Intraocular Lens - A Blessing to the Aphakic'

Publications

Indian Journal of Paediatrics
Nov-Dec, 1991

Dr. Lakshmi Rahmathullah

- *Effect of Receiving a Weekly Dose of Vitamin A equivalent to the recommended Dietary Allowances among Preschool Children on Mortality in South India*

International Ophthalmology
Vol. 15, 1991

Leon B. Ellwein, R. D. Thulasiraj

- *The cost effectiveness of strategies to reduce barriers to cataract surgery*

Afro-Asian Journal of Ophthalmology
Vol. IX No. 4, March 1991

Dr. R. D. Ravindran, Dr. C. Premachandran

- *Role of Topical non-steroidal anti-inflammatory drug in extra capsular cataract surgery*

Journal of Tamil Nadu Ophthalmic Association
Vol. 28 (1) March 1991

Dr. R. Ramakrishnan

- *Pathogenesis of optic nerve head changes in glaucoma*
- *Role of Lasers in Glaucoma*

Dr. Krishnadas

- *Medical Management of glaucoma*

Dr. Sumathi, Dr. R. Ramakrishnan

- *A study of phacolytic glaucoma in 100 patients*

Arch. Ophthalmology
Vol. 109 April 1991

Dr. Girija E. Brilliant, R. D. Thulasiraj

- *Social Determinants of Cataract Surgery - Utilization in South India*

Arch Ophthalmology
Vol.109, May 1991

Dr. Rohit Bhatnagar, Dr G. Venkataswamy

- *Risk of cataract surgery and history of severe diarrheal disease in southern India*

Journal of Tamil Nadu Ophthalmic Association
Vol. 29 (2) June 1991

Dr. R. Ramakrishnan, Dr. Krishnadas

- *Cyclodestructive Procedures in Glaucoma Therapy*

Dr. R. Ramakrishnan, Dr. Krishnadas

- *Pseudophakic Pigmentary Glaucoma - Our Experience*

Dr. Madhukar Reddy, Dr. M. Srinivasan

- *Mitomycin Drops as an Adjuvant in Preventing Recurrence of Pterygium*

Afro-Asian Journal of Ophthalmology,
Vol X No. 1 June 1991

Dr. M. Srinivasan, Dr. P. Vijayalakshmi

- *Keratomycosis in children 5 - 8*

Dr. R.D. Ravindran, Dr. C. Premachandran, Dr. P. Tharala

- *Trabeculectomy combined with Posterior chamber Intra ocular lens Implantation 17 - 19*

Indian Journal of Ophthalmology
Vol. 39 (2) June 1991

Dr. Taraprasad Das, Dr.P. Namperumalsamy

- *Scleral Buckling with Hydrogel Implant 41-43*

Dr. S. Manohar, Dr. R. Ramakrishnan, Dr.Taraprasad Das,
Dr. P. Namperumalsamy

- *Malignant Melanoma of Choroid 70-73*

Dr. S. Harikrishnan, Dr.Taraprasad Das, Dr. P. Namperumalsamy

- *Groenblad Strandberg Syndrome - A Case Report 74 - 75*

Journal of Tamil Nadu Ophthalmic Association

Vol 29 (3) September 1991

- Dr. P. Namperumalsamy
- *Fundus Drawing and Scleral Depression* 5 - 6
- Dr. K. Lakshman Murthy
- *Tractional Retinal Detachment* 27 - 29
- Dr. S. Manohar
- *Complications of Retinal Detachment and Visual Prognosis* 31 - 36
- Dr. Donald Lobo
- *Pneumatic Retinopexy* 39 - 41

American Journal of Clinical Nutrition

Vol.54, September 1991

- Dr. Lakshmi Rahmathullah, Barbara A Underwood, Ravilla D Thulasiraj, and Roy C Milton
- *Diarrhoea, respiratory infections, and growth are not affected by a weekly low-dose Vitamin A supplement: a masked, controlled field trial in children in southern India* 568 - 577

Journal of Tamil Nadu Ophthalmic Association

Vol 29 (4) December 1991

- Dr. P. Vijayalakshmi
- *Classification and Diagnosis of Horizontal Squint* 1 - 6
- *Pre-operative Planning for Surgery in Horizontal Squint* 7 - 9
- *Paralytic Squint* 10 - 16
- *Visual Acuity Estimation & Refraction in Children* 17 - 22
- Dr. Santosh S. Adke
- *The Diagnosis and Management of Superior Oblique Palsy* 23 - 28
- *Accommodative Esotropia* 29 - 34
- *Congenital Ptosis* 35 - 40
- Dr. V. Chittibabu, Dr. A. Lakshmana Rao, Dr. R. Ravichandran, Dr. R.D. Ravindran
- *Pseudophakic Pupillary Block Glaucoma following Posterior Chamber IOL Implantation*

In Appreciation

Aravind gratefully acknowledges the fine support from the following organisations which have so wholeheartedly teamed up in its efforts in the battle against blindness.

Sight Savers, UK

In addition to their continued support for eye camps, Sight Savers is exploring the possibilities of supporting other projects. Under the leadership of Mr. Nagarajan, Sight Savers in India is now entering a new phase. This is oriented towards manpower development and strengthening eye hospitals in the country to become more efficient and viable organizations. Aravind and Sight Savers have become partners in this process with Aravind providing the necessary training and Sight Savers sending personnel from various eye hospitals.

Dr. Munirul, Country Representative, Sight Savers, Bangladesh visited the Nutrition Rehabilitation Centre and Vitamin A Project.

Seva Foundation, USA

Seva Service Society, Canada

Through close associations and involvement, Seva guides and assists in Aravind's growth with a spirit of partnership. The focus this year was in the establishment of the IOL productions facility and the institute of Community Ophthalmology. David Green, Technical Assistance Director of Seva Foundation visited Aravind with regard to the setting up of the IOL factory at Aravind.



David Green with Dr. Natchiar

Helen Keller International

HKI's involvement with Aravind was further strengthened through VITAP in Aravind's Vitamin A work. They continue to support the hospital management training programme by covering the travel cost of visiting faculty.

Ms. Kirsten M. Laursen, HKI, New York and Dr. Eva Santos from HKI, Philippines visited Aravind.

Direct Relief International, USA continues to help in shipping and customs passage of donated medical supplies and sophisticated medical equipment under the Indo-US Agreement.

Combat Blindness Foundation, USA

This young organisation started by Dr. Suresh Chandra provides support to meet the increasing number of free surgeries being performed at Aravind. It also provided substantial support in the establishment of the IOL manufacturing facility.

Aravind Jyoti

As an extension of the shop 'Service Centre', the voluntary organisation Aravind Jyoti, now runs a Coffee Shop. Coffee and snacks are prepared and served in a hygienic condition. Situated in the out-patient department it is easily accessible to both the patients and staff.

Volunteers and Visitors who came to Aravind in 1991

Dr. Tom Carlson, Paediatrician, Stanford University Medical Centre, USA

Dr. Marilyn T. Miller and Dr. Ronald Fishman Ophthalmologists from USA

Dr. Kalane Wong, Ophthalmologist, Pacific Medical Centre, San Francisco, USA

Dr. V.K. Raju, Ophthalmologist, University of West Virginia, USA

Dr. Norman P. Blair, Ophthalmologist, University of Illinois Eye and Ear Infirmary, Chicago, USA

Ceil Rosenbaum and Steve Shamrak from Australia

Mr. Jerry G Jones and Ms. Alex Merrin, Portland, Oregon.

Dr. Upali Mendis, Director, Eye Hospital, Colombo

Dr. Chandrasekar, Kakinada

John J. Cioffi, New York, USA

Dr. Allen Foster, and Dr. Clare Gilbert
Institute of Community Eye Health, London

Mr & Mrs. Kishorebhai Vora, Mr. N.P. Pandya, Mr. K.N. Karanjewala, Dr. B.G. Sahasrabudhe, and Mr. Vasant Godbole from Poona Blind Man's Association came here to discuss with our Chief, Trust Secretary and Administrator regarding opening of a new hospital at Poona.

Dr. Veerapagu, Dean, Madurai Medical College, Dr. Kumarasamy, Superintendent, Government Ophthalmology Hospital, Madras and Mr. Anandaraman, Accounts Officer, DME's office, Madras came to inspect the hospital to designate it as WHO collaborating centre.

Mr. V.A. Desai from Miraj came to Aravind to teach the MHM students

Dr. Frank Myers, Retina & Vitreous Services, University of Wisconsin, Madison, USA

Rajini Mahendran, medical student from London

Dr. Bob Derrick from Sinai Hospital, USA was here for a month for surgical experience and to share his knowledge with the staff in the Glaucoma Department. He was accompanied by his wife Vivian who studied the functioning of the medical shop at Aravind and gave valuable suggestions.

Dr. Justin Storm, Paediatrician from Stanford University Hospital, California, USA came to visit Aravind Children's Hospital.

As examiners for the Diploma in Ophthalmology (D.O.) Programme, Dr. Mandalkar Rao from Gulbarga, Dr. J. Biswas from Madras and Dr. Vasudev Anand Rao from Pondicherry visited Aravind.

Shri D. N. Chaudhri and Dr. V.K. Tewari, National Society for the Prevention of Blindness, New Delhi

Mr. Vispy Minoo Engineer, Lion Ranganathan and Dr. Chandrasekhar Shetty were at Aravind to discuss the establishment of collaborative training institute with the Lions International SightFirst Programme.

Dr. Richard A. Weiss, One World Vision Project, California, USA

Todd Berman, New York, USA

Mrs. Marion Handscomb and Miss. Diane Moore, Impact, UK were at Aravind to review and restructure the nurses training programme.

Dr. Rohit Bhatnagar

Dr. Daniel C. Schainholz, Michigan

Mr. Richard Denton, Mr. Erik Wilke, Mr. Bryon Milliere and Jeff Scott from Ontario, Canada visited Aravind through the Rotary International

Ms. Christina Gudmundsson, The International Medical Co-operation Committee, Denmark

A TV crew consisting of Mr. Ralph W Wagner, Mr. Charles H Williams, Ms. Anne C Ward, and Mr. Joseph P Costello, Cutting Room Floor Production Inc., USA, deputed by Lions International were at Aravind Eye and Children's Hospitals to shoot a film on the work done here.

Aravind Eye Hospitals & Postgraduate Institute of Ophthalmology

PROJECT DIRECTOR
OPERATIONAL RESEARCH
ARAVIND EYE HOSPITALS
MADURAI-625020

Director:

Dr.G.Venkataswamy

Run by Govel Trust (a non-profit organization)

Chief Medical Officer:

Dr.P.Namperumalsamy

Secretary:

G.Srinivasan

Senior Medical Officers:

Dr.G. Natchiar

Dr.M. Srinivasan

Dr.P. Vijayalakshmi

Dr.R. Ramakrishnan

Dr.R.D. Ravindran

Dr.N. Nagappan

Dr.R. Ravichandran

Administrator:

R.D.Thulasiraj

Project Director:

Dr. C.A.K. Shanmugham

Medical Officers:

Dr.K.S. Chandrakanth

Dr.V. Chittibabu

Dr.D. Datta

Dr.D. Dwaraknath

Dr. Krishnadas

Dr.R. Kumaraswamy

Dr. Lakshmana Murthy

Dr. Madhavan

Dr.B. Niranjankumar

Dr.C. Premachandran

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Dr. Rathinam

Dr.P. Ravichandran

Dr.K.M. Selvakumar

Dr.S. Selvi

Dr. Susilpani

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President, Rotary Club, Main Branch, Madurai

(Ex-officio)

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Director:

Dr. Lakshmi Rahmathullah

Medical Officers:

Dr. Mumtaz

Dr. Paulraj

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