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## Quote

In an unshakeable faith  
 lies all our hope  
 - the Mother

## Editorial

Apart from celebrating the efforts taken, awards motivate people with a drive for improved performance. Last month, contributions of Aravind staff were recognised by various forums both at the national and regional levels. The organisation was felicitated by India Today, a leading current affairs magazine in India for its philanthropic and sustainable efforts in restoring sight to millions.

Aravind hosted the annual national conference of the Indian Eye Research Group, India chapter for ARVO with a variety of programmes including scientific sessions, presentations and entertainment events. The occasion turned out to be a platform for exchange of ideas and sharing of knowledge.

It has been 11 years since Aravind lost its beloved founder, Dr.G.Venkataswamy. Mission Day was observed across the Aravind centres to commemorate his memorial day and to rededicate the staff to the noble mission of the organisation.

CME programmes were arranged for staff members of different cadres to update them on the latest developments in their fields.

News about these and many more feature in this issue.

## AWARDS AND ACCOLADES

### Aravind Wins India Today's Make in India Emerging Entrepreneurs Award

New Delhi, July 6



Aravind Eye Care System wins India Today's *Make in India Emerging Entrepreneurs Award* in the *Social entrepreneurship* category. Shri. Jeyant Sinha, Minister of State for Civil Aviation, Government of India presented the award.



## Best Video Award at the Indian Intraocular Implant & Refractive Surgery Convention (IIRSI)

Chennai, July 8-9

Dr. R. Venkatesh bagged the Best Video Award in Special Interest category: *The Oscar dream: Low cost, high definition surgical video recorder.*



## Best Video Award

Chennai, July 14-15



Dr. Jayant Kumar and Dr. Naresh Babu, Medical Consultants, Retina and Vitreous Services, Aravind-Madurai bagged the award for the best video at Retina Summit organized by Sankara Nethralaya, Chennai.



## Lions Awards for Nurses of Aravind – Tirunelveli

Tirunelveli, July 22



Ms. M.N Chidambaram, Nursing Superintendent; Ms. V. Arumugam, Deputy Nursing Superintendent; Ms. K.S Marimuthu, Co-ordinator- Retina Clinic; Ms. R Muthulakshmi, Technician Supervisor; Ms. M K Sanakara Gomathi, Co-ordinator- Glaucoma Clinic; Ms. M M Nambi, Counsellor; Ms. D.A Stella Baby, Tutor – OP were appreciated and awarded Certificate of Appreciation for their selfless and efficient work. An exclusive function was organised by the Lions Club of Tirunelveli Cosmos and the certificates were given.



## Awards at the Annual Conference of Indian Eye Research Group

Madurai, July 29-30



Mohd Hussain Shah, Research Scholar, Department of Molecular Genetics  
- *Identification and characterization of variants and a novel 4bp deletion in the regulatory region of SIX6, a risk factor for Primary Open Angle Glaucoma (Best Poster)*

S. Ashwin Balaji, Junior Research Fellow, Department of Ocular Pharmacology  
- *Effect of cyclic IOP on outflow facility and activation of Rho A / ROCK signal cascade in human eyes (Best Oral Presentation)*





## Dr. Kalpana Narendran Conferred with Honorary Doctorate

Vadlamudi, Guntur, Andhra Pradesh, July 31



Dr. Kalpana Narendran, Chief, Paediatric Ophthalmology and Adult Strabismus Department, Aravind-Coimbatore was conferred Honorary Doctorate by Vignan University, Vadlamudi, Guntur on the occasion of its fifth convocation. She was honored along with



## NEWS AND EVENTS

### 24th Annual Meeting of Indian Eye Research Group: ARVO-India Chapter

Aravind - Madurai, July 29-30, 2017



Aravind Medical Research Foundation hosted the 24th annual meeting of IERG at Madurai. A total of 146 participants and 30 invited faculty attended the meeting. The meeting included 103 presentations, two orations, 15 invited talks, 17 free papers and 69 posters. 18th Bireswar Chakrabarti oration delivered by Dr. Debasish Sinha, Associate Professor of Ophthalmology, The Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore on Linking Impaired mTORC1 And Autophagy in Lysosomes of RPE Cells to Age-Related Macular Degeneration. 6th D. Balasubramanian oration by Prof. G Kumaramanickavel, Research Director - Narayana Nethralaya, Bangalore and Aditya Jyot Eye Hospital, Mumbai on A Journey in Darkness: Pathway to Ophthalmic Genes. A special breakout session on Recent Advances in Microbiology and Immunology, Genomics and Proteomics, Cell and Molecular Biology, Biochemistry and Pharmacology and Clinician Researcher Interface was also conducted. Awards for best oral and poster presentations were distributed.



### 6th Workshop on Instruments Care and Maintenance

Aravind - Salem, July 5



This year too, Aravind – Salem organised the workshop with Dr. B.Manohar Babu extending a warm welcome to the participants. The workshop had 21 participants and 12 sessions. Certificates were distributed to all.



## Mission Day

Aravind, July 7



Aravind Eye Hospital across the centres observed the 11th memorial day of Dr. G. Venkataswamy. Shri. Vijay Poddar from Sri Aurobindo Society shared his view on Dr. V. Staff observed a moment of silence.



## Continuing Medical Education

Aravind – Tirunelveli, July 9, 2017

A CME for staff of Vision Centres, Community Centre and Surgical Centre was organised to give them an update on the recent advanced lenses. Ms. Sivasankari, Opticals In-charge welcomed the gathering and set the context of the CME. Mr. Krishnan, Essilor India Limited gave an informative presentation on latest lenses. Mr. Ganesh, Founder - LIME gave an inspiring talk on Team Work. Using suitable examples, he made the session so interactive and interesting. Lakshmi R, Manager - HR gave an orientation to NABH accreditation process. Ms. Shanmuga Sundari, Vision Centre Co-ordinator proposed a vote of thanks. The CME was highly informative and well appreciated by the participants.



## CONFERENCES ATTENDED ELSEWHERE

### 7th World Glaucoma Congress – 2017

Helsinki, Finland, June 28 - July 1, 2017



**Dr. Ramakrishnan**

- *Glaucoma care in resource poor settings* - (Chairperson)
- *Alternative and complementary therapies for glaucoma*

**Dr. Devendra Maheswari**

- *A Short term analysis of Anterior chamber and Pars plana insertion of AADI implant* (Poster)
- *To compare the efficacy and safety of injectable Versus Sponge soaked MMC in patients undergoing Trabeculectomy* (Poster)
- *Safety and Efficacy of Mitomycin-C applied by subconjunctival injection Versus sponge method in Phacotrabeculectomy* (Poster)

**Dr. Manju Pillai**

- *Long term surgical outcome of primary congenital glaucoma in south India population*

**Dr. Sharmila**

- *An analysis on severity of newly diagnosed primary open angle glaucoma patients presenting to a tertiary eye care centre in South India*



## Indian Intraocular Implant & Refractive Surgery Convention (IIRSI) Annual conference of intraocular implant and refractive society

Chennai, July 8-9

- *The Oscar dream : Low cost, high definition surgical video recorder* (Best Video Award)
- *Surgical options for managing angle closure disease*
- *Co-chairman for the session on Ophthalmic surgery*
- *Manual small incision cataract surgery: why MSICS in the era of flacs*



## Asia Pacific Tele-Ophthalmology Society

Hongkong, July 15-17

Mr. R.D. Thulasiraj was the invited speaker and he delivered a talk on the topic, Teleophthalmology in India.



## Ophthafusion

Coimbatore, July 15-16

**Dr.Usha Kim**

- *Thyroid eye disease clinical spectrum and medical management*
- *Ptosis correction*
- *Orbital fractures – Update on management*



## Annual Conference of Indian Eye Research Group

Madurai, July 29-30

**Oral presentations****Dr. Usha Kim**

- *Why research in clinical practice?*

**S. Ashwin Balaji**

- *Effect of cyclic IOP in outflow facility and activation of Rho A / Rock signal cascade in human eyes*

**Dr. C. Sathya Priya**

- *Whole genome assembly and annotation of Aspergillus flavus clinical isolates*

**Poster presentations****Sanil Joseph**

- Effectiveness of telemedicine in identifying diabetic retinopathy cases compared with universal referral-a cluster randomised trial

**Lavanya K**

- Identification of corneal epithelial stem cell specific Micrnas

**Dr. O.G. Ramprasad**

- Novel Chemical Cross-Linking Of The Cornea For The Treatment Of Keratoconus

**Mohammed Razeeth**

- Fungal Infection Induce Peripheral Alternative Pathway Of Complement System

**Kathirvel K**

- Analysis of mutations in the mexab-oprm efflux pump regulatory genes in ocular pseudomonas aeruginosa isolates from keratitis patients

**Prakadeeswari Gopalakrishnan**

- Mthfr And Mthfd1 gene polymorphisms are not associated With Pseudoexfoliation Syndrome In South Indian population

**Ms.Nithya Lakshmi Sampath**

- Quantitative determination of total Zag protein level in Keratitis patient tear

**Sangeetha Ramalingam**

- Characterization of drug resistance and tolerance mechanisms in corneal isolates of Pseudomonas Aeruginosa obtained from keratitis patients

**Durga Murugan**

- Spectrum of mutations in the Carbohydrate Sulfotransferase 6 (Chst6) gene causing Macular Corneal Dystrophy (MCD) In Indian families

**Sandhya Krishnan**

- Activation of alternative complement pathway in Mycotic Keratitis

**V. Lakshmi Prabha**

- Identification and Characterisation Of Aspergillus Flavus exoproteome in early stages of propagation

**Yogapriya S**

- Identification and quantification of human trabecular meshwork stem cells

**Roopam Duvesh**

- Evaluating the genetic association of candidate genes Loci with Primary Angle Closure Glaucoma in South Indian population

**Mohd Hussain Shah**

- Identification and characterization of variants and a novel 4 bp deletion in the regulatory region, a risk factor for primary open angle glaucoma

**Manojkumar K**

- Automated exome analysis pipeline using next generation sequencing data for eye diseases

**Kumaragurupari**

- Worldwide research productivity in pediatric eye health: A bibliometric analysis

**K. Thirumalai Raj**

- Identification of Germline RB1 mutations and risk prediction in Retinoblastoma patients

**Vignesh P**

- Comparison of c3 protein expression level in various diabetic retinopathy serum samples

**Mohammed Gowth**

- Role of telemedicine enabled rural vision centres enhancing eye care coverage – a retrospective study in a south Indian district

**Ranjani Singaraj**

- Analysis of serum microRNA profiles from diabetic retinopathy patients

**Ms.S. Umadevi**

- A systematic bioinformatic approach to screen potential drug target in ocular pathogen chlamydia trachomatis

**Mr. A. Aloysius Abraham**

- Role of duplications in tumor suppressor gene, *rb1* in retinoblastoma

**Dr. Balamurugan**

- Analysis of polymerase chain reaction results with clinical diagnosis of ocular tuberculosis in a tertiary eye care centre in south India

**Dr.Piyush Kohli**

- Emerging antibiotic resistance among staphylococcus epidermidis in patients using antibiotics after intravitreal injections in pro-re-nata (prn) dose

**T. Shanthini**

- Detection of Loss of Heterozygosity (LOH) using next generation sequencing in retinoblastoma cases

**Dr. Santhi. R**

- Relevance of unexplained peripheral eosinophilia and retinoblastoma in a tertiary eye care centre, new paradigm on peripheral blood eosinophilia and embryonal malignancy

**Ganesh-Babu Balu Subburaman**

- Eye Infobase: An innovative approach in building global repository of blindness and morbidity data by Lions Aravind Institute Of Community Ophthalmology (LAICO), India

**Govindarajan. R**

- Ophthalmologists' preferences on information characteristics – An opinion survey

**LAICO HAPPENINGS****Eyexcel 2017**

LAICO, July 11 – 14, 2017



10th batch of Eyexcel course was held at LAICO with 13 participating groups from 12 hospitals. A total of 32 participants attended the workshop.



## TRAINING PROGRAMMES

<b>Enrolments for July 2017 at Aravind Eye Care System</b>		
<b>Course title</b>	<b>Training Centre</b>	<b>Enrolments for July 2017</b>
<b>Long Term Fellowship Programmes - For Ophthalmologists</b>		
<b>Cornea</b>	<b>Madurai</b>	3
<b>General Ophthalmology</b>	<b>Salem</b>	1
	<b>Madurai</b>	1
<b>Anterior Segment / IOL Surgery</b>	<b>Coimbatore</b>	1
<b>Glaucoma</b>	<b>Madurai</b>	2
	<b>Tirunelveli</b>	2
	<b>Coimbatore</b>	1
<b>Retina - Vitreous</b>	<b>Madurai</b>	3
	<b>Tirunelveli</b>	3
	<b>Pondicherry</b>	2
<b>Short Term Courses - For Ophthalmologists</b>		
<b>Lasers in Diabetic Retinopathy</b>	<b>Coimbatore</b>	1
	<b>Madurai</b>	1
<b>Observership in Glaucoma</b>	<b>Madurai</b>	1
	<b>Tirunelveli</b>	1
	<b>Coimbatore</b>	1
<b>Management of ROP and Pediatric Retinal Disorders</b>	<b>Coimbatore</b>	1
<b>Phacoemulsification</b>	<b>Madurai</b>	2
	<b>Pondicherry</b>	1
<b>Small Incision Cataract Surgery</b>	<b>Madurai</b>	1
	<b>Tirunelveli</b>	2
<b>Management courses</b>		
<b>Eyexcel – Expanding Global Eye Care Workforce through Excellence in Training</b>	<b>LAICO</b>	32



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- Sahil Bhandari, Manas Nath, Kirandeep Kaur, Bharat Gurnani. **Retrospective Multifactorial Analyses of Final Visual Outcome in Traumatic Cataract: study from tertiary eye care hospital.** Indian J Applied Res. 2017 Aug;7 (8):316-18.  
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## AUROLAB NEWS

### Graduation Day in Aurolab

Aurolab, July 1



The programme began with prayer song. Ms.Devi welcomed the gathering. Managing Director, Joint Managing Director and the haeds of various divisions lit the holy lamp. Prizes were distributed to the rank holders. Ms.Mahalakshmi congratulated the team and narrated the roles and responsibilities of production staff. The programme ended a with Vote of thanks.



### 11th Memorial Day of Dr.V

Aurolab, July 7



The prayer meeting began with prayer. All the staff members paid homage to the chief by observing moment of silence. The life history of Dr.V video was screened. Mr.Venkateshwarn- Manager-Pharmacy QC shared his great experiences about our chief. The prayer meeting ended with Aravind Anthem.



## MONTHLY PATIENT STATISTICS

### July - 2017

Hospitals	Madurai	Theni	Tirunelveli	Coimbatore	Pondicherry	Dindigul	Tirupur	Salem	Udumalpet	Tuticorin	RS Puram	Total
<b>HOSPITAL OUT-PATIENT VISITS</b>												
Paying (New & Review)	59,061	8,964	29,418	35,800	28,157	6,691	4,576	12,110	3,698	5,115	2,994	1,96,584
Free:Direct walk-in (New & Review)	19,396	2,289	7,911	11,554	10,007	NA	905	1,882	1,549	778	NA	56,271
<b>OUTREACH OUT PATIENT</b>												
Comprehensive Eye Camps	9,841	1,879	5,391	8,798	12,943	NA	NA	773	112	282	NA	40,019
Diabetic Retinopathy camps	494	168	88	832	264	NA	NA	NA	NA	NA	NA	1,846
Refraction Camps	2,183	132	964	2,670	602	NA	263	NA	NA	NA	NA	6,814
Mobile Refraction Unit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
School Screening camps	1621	176	319	79	1614	NA	1173	176	NA	NA	NA	5158
Paediatric Camps	NA	245	NA	190	1069	NA	NA	NA	NA	NA	NA	1504
Vision Centres	19,556	5,726	10,518	3,094	5,823		1,148		1,295	NA	NA	47,160
Community Centres / City Centres	9,701	2,101	2,701	NA	2,746	NA	NA	NA	NA	NA	NA	17,249
<b>Total OP Examinations</b>	<b>1,21,853</b>	<b>21,680</b>	<b>57,310</b>	<b>63,017</b>	<b>63,225</b>	<b>6,691</b>	<b>8,065</b>	<b>14,941</b>	<b>6,654</b>	<b>6,175</b>	<b>2,994</b>	<b>3,72,605</b>
<b>Total Number of Camps</b>	<b>37</b>	<b>11</b>	<b>31</b>	<b>42</b>	<b>29</b>	<b>NA</b>	<b>NA</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>NA</b>	<b>160</b>
<b>SURGERIES</b>												
Service Proportion of Cataract Surgeries												
Paying	3,859	442	1,440	1,715	1,522	333	189	674	169	175	114	10,632
Free (Direct)	3,917	286	932	1,596	1,240	73	173	251	241	109	NA	8,818
Camp	3,578	360	1,138	2,401	2,810	NA	36	205	77	43	NA	10,648
<b>Total Cataract Surgeries</b>	<b>11,354</b>	<b>1,088</b>	<b>3,510</b>	<b>5,712</b>	<b>5,572</b>	<b>406</b>	<b>398</b>	<b>1,130</b>	<b>487</b>	<b>327</b>	<b>114</b>	<b>30,098</b>
Note: NA - Not Applicable												



