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Quote

“Do one thing at a time,
 and while doing it put your
 whole soul into it to the
 exclusion of all else.”
 - Swami Vivekananda

Lobbies of Aravind Eye Hospital in Chennai were reverberating with laughter and fun, a scene so unusual in a hospital setting. And there was all reason to warrant this - it was the homecoming of alumni doctors of Aravind. The two-day programme of was fully packed with fun and frolic and will leave an indelible mark in the minds of people.

Aravind camps are much sought-after in the community for their compassionate and quality service. And to a major extent, the success of these camps can be attributed to the local sponsors who extend their constant support. Recently, a get-together of these sponsors was arranged at Aravind-Madurai, which turned out to be a highly fulfilling event.

Diabetic Retinopathy (DR) is one of the leading causes of blindness worldwide. Every year in November, Aravind organizes elaborate awareness programmes on DR as part of World Diabetes Day celebrations.

News about these and many more feature in this issue.

AWARDS AND ACCOLADES

Distinguished Alumnus Award for Mr. Thulasiraj Ravilla

Kolkata, November 14



Indian Institute of Management, Calcutta honored Mr. Thulasiraj Ravilla, Executive Director, LAICO with the "*Distinguished Alumnus Award 2018*" in recognition of his immense contributions in the arena of Social Entrepreneurship.



Dr. S.R. Rathinam Honoured at the 18th Annual Meeting of Uveitis Society of India

Chandigarh, November 16 - 18

Dr. S.R. Rathinam, Chief, Uvea Services, Aravind-Madurai was honoured with the Dr. G. Venkataswamy Endowment Award and she delivered an oration titled, "*Let there be the joy of doing something beautiful*".



SPECIAL EVENTS

ROOTS 2018 – Doctors' Alumni Meet

Aravind-Chennai, November 17-18



Organised for the second time and hosted by Aravind-Chennai, the meet had 112 Aravind alumni from across the country. The event was organised to commemorate the birth centenary celebrations of Dr. G Venkataswamy. Numerous interactive sessions organized through the programme added colour and vigour to the whole show. Special address was given by Mr. Manohar Devadoss which was very much appreciated. The session by Pegasus outdoor learning team focused on work life balance and received good response from the participants.



Sponsors Day

Aravind - Madurai, November 24



Every two year, Aravind Eye Hospitals organise Sponsors' Day to recognize the contribution of sponsors towards conducting different types of eye camps. This year, being special to Aravind as the birth centenary Year of Dr. V, sponsors from Madurai, Theni and Tirunelveli were invited for the function held at Aravind-Madurai. Around 500 sponsors attended. Mr. R. Meenakshi Sundaram, Senior Manager- Outreach gave an overview and the purpose of celebrating Sponsors Day. Dr. G. Natchiar, Director-Emeritus and Dr. R.D. Ravindran, Chairman-Aravind Eye Care System offered felicitations. Dr. R. Ramakrishnan, Chief Medical Officer, Aravind Eye Hospital, Tirunelveli shared his experience with sponsors. Dr. Usha Kim conducted Quiz Program on the topic, "Eye care is our care". Sponsors day souvenir was released by Er. G. Srinivasan, President-Govel Trust and the first copy was collected by Dr. P. Namperumalsamy, Chairman-Emeritus. Prof. Dr. Jayanthasri Balakrishnan, Chief Guest delivered an emotional talk on Aravind's contribution in taking eye care to the needy. Her talk was well appreciated by the audience. Video on theatrical presentation on Dr. V's life was screened to the audience. Dr. Lalitha Prajna, Camp Medical Officer proposed a vote of thanks.



NEWS AND EVENTS

Skill Enhancement Session

Aravind – Madurai, November 08



HR Department organised a special soft skill session on "Power of Positive Attitude" to the IT team of AEH, Madurai. IT departments from Aravind- Tirunelveli and Coimbatore joined through video conference. Mr. Chinna Maruthu, with his vast expertise in handling soft skills, managerial and leadership courses across the country took the session.



Observing World Diabetes Day

Aravind, November 14



World Diabetes Day is the primary Global awareness Campaign focusing on Diabetes Mellitus and is observed on 14th of November of every year. The Theme for this year was "The Family and Diabetes" Diabetic Retinopathy (DR) remains the leading cause of Blindness and major cause for Vision loss. As part of World Diabetes Day, all Aravind centres organised various programmes to create awareness amongst the public in general and patients in particular. These included awareness talks on local radio channels, DR screening camps, exhibition, formation of human chain, and distribution of awareness pamphlets.



Diwali Celebration

Aravind, October 30& November 1



Diwali was celebrated at Aravind Eye Hospital, Tuticorin on 30th October 2018. Cultural programmes including dance and skit were performed by MLOPs.

Aravind-Salem conducted Cricket League for MLOPs on October 28 and quiz programme for all MLOPs and Doctors on November 5. Winners were honored with trophy and attractive prizes.

Diwali was celebrated at Aravind Eye Hospital, Tirunelveli on 1st November 2018 and at Chennai on 2nd November 2018. All staff includes Doctors, MLOPs and Admin attended this grand celebration.

This special evening was marked with a brilliant display of lights, the dazzling fireworks, dinner. Various cultural programmes like Bharatanatyam, Folk Dance and singing were performed by doctors and MLOPs.

HR department organised a dance competition for nurses as part of Diwali celebrations at Aravind-Pondicherry.



Children's Day

Aravind, November 14



At Madurai, the Paediatric Ophthalmology and Strabismus Department organised awareness exhibition. Several models showing squint and amblyopia and their treatment methods were kept on display. Around 150 children and their parents visited the exhibition. Orbit and Oculoplasty Clinic organised celebration in collaboration with Top Kids, a professional counselling centre. Psychiatrists dressed up as clowns entertained the children. At Aravind- Tirunelveli, Paediatric Ophthalmology clinic conducted drawing competition for the children and prizes were distributed. Dr. R. Meenakshi gave an awareness talk on Amblyopia for patients and their parents. Parents also shared their experiences and got all their queries clarified. At Aravind-Pondicherry, the clinic organised an exhibition; more than 1000 patients and their attenders visited. Drawing competition and puzzles were conducted for children less than 15 years and prizes were distributed by Dr. K. Veena.

Aravind-Coimbatore organised an exhibition on various aspects of eye care. This covered a variety of topics such as need for regular use of glasses among children with refractive error; need to stay away from digital devices such as mobiles and tablets, patching therapy for amblyopia, necessity and use of low vision aids in children requiring the same. Importance of consuming healthy and nutritious food and its impact on general well-being was highlighted. Children were also cautioned about possibility of injury to the eye by sharp objects being used in routine household activities. Throughout the day, games and competitions were conducted for the entertainment of children. Children's play area at Aravind-Coimbatore was renovated with a generous support from Mrs. Sharmila Srikumar, a young mother who has great regards for Aravind after having her son treated successfully at Aravind.



Aravind's new Vision Centre at Mukkudal

Aravind-Tirunelveli, November 12



73rd Vision Centre for Aravind Eye Care System and the 15th centre for Aravind-Tirunelveli was inaugurated at Mukkudal by Dr. R. Ramakrishnan, Chief Medical Officer of Aravind Eye Hospital, Tirunelveli in the presence of various community leaders. On the first day, the vision centre team examined 100 patients.



Writathon 2018

Aravind-Pondicherry, November 1



Influenced by events like "Hackathon" in engineering colleges, "Writathon 2018" was conducted at Aravind to help doctors come out with quality articles that can be published. Most Aravind doctors have a good collection of case reports and rare clinical images, which do not move to the next level beyond the regular grand rounds. Writathon was a 24 hour event where the participants in groups were provided a calm atmosphere with all the support facilities to think and write scientific articles. 29 participants attended and 23 articles were uploaded successfully.



Awareness Exhibition on Using Fire Crackers

Aravind - Pondicherry, October 25 - 31

The week-long exhibition had awareness posters and models on how to be alert while dealing with fire crackers. More than 2000 patients and attendees visited and got benefitted. Dr. Arthi gave an awareness talk on Suriyan FM on the same topic.



CME on Diabetes

Aravind-Tirunelveli, November 25



A one day CME on Diabetes was organized at Aravind-Tirunelveli in association with IMA and Tirunelveli Medical College. This CME was organized to update Ophthalmologists, Physicians and other specialists about the importance of proper monitoring in diabetes cases and how the disease can affect eyes. The CME had various specialists like Cardiologists, Endocrinologists, Gynaecologists, Diabetologists and Ophthalmologists giving a very descriptive and informative lecture. A total of 10 speakers, 50 Delegates participated in the CME.



Supporting the Victims of Gaja Cyclone

Aravind-Tuticorin, November 24

As immediate relief, Aravind-Tuticorin sent relief materials worth of Rs. 12,000 to the cyclone-affected affected Delta districts of Tamil Nadu. Aravind's other centres also joined hands in this mission.



Awareness talks on Obesity and Diabetes

Aravind – Madurai, November 20

The HR Department organised an awareness talk on Obesity and Diabetes. Dr. Kannan from Dr. Mohan Diabetes Speciality Centre handled the session, which was very interactive and informative.



CME on Retinopathy on Prematurity (ROP)

Aravind-Madurai, November 23



Every year, World Prematurity Day is observed on November 17 to raise awareness of the consequences of preterm birth. A CME was conducted at Aravind-Madurai on this occasion by the Government of Tamil Nadu under National Health Mission (TSBCS). The gathering was inaugurated by Honorable District Collector Thiru. S. Natarajan IAS, Dr. Chandrakumar, Project

Director of DBCS and Dr. Kavitha, HOD of Ophthalmology, Government Rajaji Hospital, Madurai. Chairman Emeritus Dr. P. Namperumalsamy addressed the gathering. The programme had exhaustive scientific session about the screening guidelines, clinical management and tele screening of premature infants. Speakers from all over Tamil Nadu shared their experiences. The highlight of the programme was the hands on training in visualization of the fundus with model eyes and introduction to laser for young ophthalmologists who attended the CME. There was an overwhelming response from the delegates. A total of 8 speakers and 75 Delegates participated.



Phaco Development Workshop

Aravind-Madurai, November 23-24



Phaco Development programme is a dedicated platform for providing the most up-to-date knowledge in eye care to ophthalmic surgeons. It is a unique initiative between Alcon and specialist training institutes that builds cataract surgical capabilities across Asia and Russia.

At Aravind-Madurai, two days' workshop for MS Residents and IOL Fellows was conducted which covered basics in Phacoemulsification. Practical session was performed at Wetlab after the elaborative lectures and interactive sessions. Participants performed all steps in surgery including wound construction CCC, Hydro procedures and Nucleus management in animal eyes.



CONFERENCES ATTENDED ELSEWHERE

American Academy of Ophthalmology (AAO)

Chicago, October 27-29

Dr. N. Venkatesh Prajna

Conjunctival autograft for Pterygium in the Great Cornea debate session

Dr. Haripriya

- Endophthalmitis reduction with Intracameral moxifloxacin in eyes with posterior capsular tear (Original Paper)
- Incidence and outcomes of toric IOL repositioning surgery (Original Paper)
- Globalising human resources for universal eye care- Community health workers (Symposium)
- Manual ECCE Surgery- Indications and Techniques
- Intracameral antibiotics options, rationale and efficacy of prophylaxis (Co- Instruction, Instruction Course)
- Learning curve of manual small incision cataract surgery at Aravind eye hospital, India (Poster)



Hyderabad Ophthalmology & Optometry Congress & Exhibition (HOA Vista 2018)

Hyderabad, November 16-18

Dr. Usha Kim

Chairperson of the session

- Master class in Ocular Oncology
- Clinical Applications of Retinoblastoma Genetics
- Oculoplasty for Everyone – Surgery that Works
- Eyelid Reconstruction - Surgery that Works



Indian Society for Medical Statistics Conference

Bengaluru, October 31 - November 3

M. Ishwarya

- *Indirect treatment comparison in Meta- analysis using three different methods*



World Innovation Summit for Health (WISH 2018)

Doha, Qatar - November 13 & 14



WISH is a global healthcare community dedicated to capturing and disseminating the best evidence-based ideas and practices. WISH highlights some of the most exciting innovations in healthcare through its Innovation Showcase competition. These include devices, applications, innovative delivery models and design-based solutions that improve quality and experience of patients, while also reducing the cost of care. This year, Aravind's Vision Centre model was selected and exhibited at the conference. Mr. Thulasiraj Ravilla and Mr. Mohammed Gowth represented Aravind in the conference.



Annual Conference of Uveitis Society of India (USI 2018)

Chandigarh, November 16 - 18

Dr. S.R. Rathinam

- *Art of ordering lab investigations*
- *Systemic therapy conventional*

Dr. Radhika

- *Microarchitected changes in limbus and central cornea in VKH Syndrome*
- *A rare manifestation of Herpes zoster ophthalmics*

Dr. Pranesh Balasubramaniam

- *Systemic Lupus Erythematosus and Tuberculosis-A diagnostic conundrum*



Executive Director's Visit to the US

November



Mr. Thulasiraj Ravilla delivered Oration "Eliminating needless blindness is all above perspective" at Kellogg Eye Centre, in University of Michigan, Ann Arbor. He spent time at University of Michigan's Ross Business School and held discussions with the faculty on collaboration with Aravind. At the AAO Meet in San Francisco, he held meetings with the team of Pacific Vision Foundation, an upcoming eye hospital and discussed on formal MoU. He also visited John A. Moran Eye Centre, The University of Utah, Salt Lake City. Mr. Thulasiraj attended the Seva Board meeting at San Francisco. He delivered Dr. Richard E. Hoover Oration, Father of Light Weight Long Cane Technique, at Greater Baltimore Medical Centre (GBMC).



Equitable Healthcare Access Consortium

Bengaluru, November 17-18



Dr. Devendra from Aravind-Madurai and Mr. Krishnakumar from Aurolab attended 3rd Quarterly meeting of Equitable Healthcare Access Consortium held at People's Tree Hospital, Bengaluru. This forum has brought together people and organizations working in area of livelihoods, education and different branches of healthcare to ensure delivery of equitable healthcare across the country. Going ahead members are working with each other on different projects to achieve the said purpose.



Telemedicine

Amaravati, November 1-3, 2018



Dr. R. Kim

- Telemedicine: Clinical Applicants -Ophthalmology



EMBI-EBI-IBAB Workshop

Institute of Bioinformatics and Applied Biotechnology, Bangalore, November 26-30

A.S. Srie Viswarubhiny, Research Scholar, Department of Genetics, AMRF

- Analysis of Next Generation Sequencing Data



7th annual conference of the Society of Mitochondrial Research and Medicine (SMRM)

Lucknow, November 28-30, 2018



P. Gowri, Department of Genetics, AMRF

- Leber's Hereditary Optic Neuropathy: Relative frequency of primary mutations in South Indian population (Poster presentation)



42nd Annual Conference of Indian Association of Medical Microbiologists

Bengaluru, November 28- December 2



Dr. Suneetha, Consultant – Microbiologist, Aravind Eye Hospital, Salem

- *Spectrum of microbial pathogens and antibiotic susceptibility of vitreous aspirates in culture proven cases of all causes of endophthalmitis*



SELECTBIO - Next Generation Sequencing in Clinical Genomics

Bengaluru, November 29-30, 2018



Dr.P.Sundaresan

- *Identification of New candidate genes for Ocular Disorders*



Annual Conference of Vitreo Retinal Society of India (VRSI 2018)

Jaipur, November 30- December 2



Dr. Kim

- *Application of AI in Diabetic Retinopathy*
- *Tele-Ophthalmology: the current status*

Dr. Naresh Babu

- *Pachychoroid Epitheliopathy*

Dr. Vignesh

- *Challenging case presentation: Eplerenone for bullous variant of CSCR*

Dr. Piyush Kohli

- *Rhegmatogenous retinal detachment after pars plana vitrectomy and sutureless scleral fixated intraocular lenses*
- *Repositioning of inadvertent intralenticular Ozurdex: A Vitreoretinal approach – Video presentation*

Dr. Chitaranjan

- *Microbial spectrum and outcomes of endophthalmitis after intra vitreal injections versus pars plana vitrectomy – E Poster presentation*

Dr. Akshay

- Rare video showing removal of a live worm from the vitreous cavity using a unique approach

Dr. Anand Rajendran

- Outer Retinal Tubulations

- Best Approaches to Complex RD Surgeries

**LAICO HAPPENINGS****Consultancy Visits**

Mr.Syed Ali and Dr.Mahesh Pathak went on a needs assessment visit to Rotary Eye Hospital, Malegaon from November 10-15, 2018.

Mr. Ganesh Babu and Dr. Rohan Daniel went on a follow up visit to Eye Foundation Hospital, Lagos, Nigeria from November 20-December 2, 2018.

Aravind team consisting of Mr.Suresh Kumar, Dr. Dayakar, Mr. Vignesh, Mr.D. Gopinathan, Ms. Ayirathammal, Ms. Rejina, Ms. Pandiammal and Ms. Lakshmi Gandhi provided onsite support to the team of staff members at Magrabi ICO Cameroon Eye Institute, Yaounde from November 26-December 19, 2018.

**ARAVIND MEDICAL RESEARCH FOUNDATION****AMRF – Dartmouth Education and Research Conference**

Aravind Medical Research Foundation (AMRF), November 28-29, 2018



Aravind Medical Research Foundation conducted a two day Education and Research Conference in collaboration with Dartmouth College and Medical Center, Hanover, USA.

Students from Dartmouth College presented research proposals on various eye diseases to clinicians, scientists and research scholars. Research students from AMRF presented new research proposals. The presentations were highly appreciated by the invited experts. Research work at AMRF was presented as posters by research scholars. The details of the core research facilities and on-going research projects were presented by AMRF scientists to Dartmouth team during lab visits.

**TRAINING PROGRAMMES**

Enrolments for November 2018 at Aravind Eye Care System

Course title	Training Centre	Enrolments for November 2018
Long Term Fellowship - For Ophthalmologists		
Fellowship in IOL	Madurai	3
	Pondicherry	1
	Chennai	1
Fellowship in Glaucoma	Madurai	1
	Tirunelveli	1
Fellowship in Cornea	Pondicherry	1
Fellowship in General Ophthalmology	Theni	1
	Coimbatore	1
	Madurai	1
Short Term Clinical Courses - For Ophthalmologists		
Clinical Observership Program In Diagnosis and Management Of Glaucoma	Madurai	1
	Coimbatore	1
Lasers in Diabetic Retinopathy	Coimbatore	2
	Madurai	2
	Tirunelveli	1
Management of Retinopathy of Prematurity	Coimbatore	1
Neuro ophthalmology	Madurai	1
Phacoemulsification	Madurai	1
	Tirunelveli	1
	Pondicherry	1
	Coimbatore	2
Small incision cataract surgery	Madurai	1
	Pondicherry	1
	Tirunelveli	1
	Coimbatore	1
Community outreach courses		
Community Outreach and Social Marketing of Eye Care Services	LAICO	8



PUBLICATIONS

- Sachin Gupta, Palsule-Desai OD, Gnanasekaran C, Thulasiraj RD. **Spillover Effects of Mission Activities on Revenues in Nonprofit Health Care: The Case of Aravind Eye Hospitals, India.** J Marketing Res. 2018:1-16.
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- Manayath GJ, Ranjan R, Karandikar SS, Shah VS, Saravanan VR, Narendran V. **Central serous chorioretinopathy: Current update on management.** Oman J Ophthalmol. 2018 Sep-Dec;11(3):200-206.
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- Gupta C, Tan R, Chitaranjan Mishra, Khandelwal N, Raman R, Kim R, Agrawal R, Sen P. **Choroidal structural analysis in eyes with diabetic retinopathy and diabetic macular edema-A novel OCT based imaging biomarker.** PLoS One. 2018 Dec 11;13(12):e0207435.
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- Varsha R, Premanand C, Reji Philip, Vinoth A, Ganesh V Raman. **Effect of Mannitol on Intraocular Pressure in Vitrectomized and Non-vitrectomized Eyes: A Prospective Comparative Study.** J Glaucoma. 2018 Dec 11. [Epub]
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- Mohammed MRS, Muthu Kumar, Amrathlal RS, Priya K, Jeya Maheshwari J, Prajna NV, Lalitha P, Dharmalingam K. **Identification of the proteoforms of surface localized Rod A of *Aspergillus flavus* and determination of the mechanism of proteoform generation.** J Proteomics. 2018 Dec 14. [Epub]

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AUROLAB NEWS

Fresher's Day

Aurolab, November 17



Fresher's day for production trainees was organized at Aurolab on 17th November. Cultural programmes like Folk dance, group dance, song and skit were performed by the newly joined trainees.



Training on Basic Fire Safety and Mock Drill

Aurolab, November 24



The HR department organised the workshop to provide training on basic firefighting techniques. Different types of fire extinguishers and their benefits were discussed. A demo of firefighting and a mock evacuation procedure was also organised.



Participation in Conferences

Aurolab



Aurolab participated in Drishti, the 45th Annual Conference of the Kerala Society of Ophthalmic Surgeons in Kannur, Kerala from November 23-25.

Aurolab participated in the 52nd Annual Conference of the Ophthalmic Society of Assam at Silchar Medical College, Silchar from November 24-25.



SEEC Workshop

Kolkata, November 27-December 1



Aurolab successfully organised 5th workshop in the series "Skill Enhancement for Cataract Counsellors" (SEEC) in collaboration with LAICO at Priyamvada Birla Eye Hospital, Kolkata. Dr. Subra Sil from VMANNN, Chandi facilitated several sessions and contributed a lot to the success of the workshop. The workshop focused on enhancing the skill of eye care counsellors in the counselling process. Around 50 counsellors from in and around Kolkata attended this workshop. Ms. Dhivya Ramasamy and Mr. Udayakumar facilitated the workshop from LAICO. Ms. Raja Kumari from Coimbatore was invited as the guest faculty.



MONTHLY PATIENT STATISTICS

November - 2018

Hospitals	Madurai	Theni	Tirunelveli	Coimbatore	Pondi cherry	Dindigul	Tirupur	Salem	Udumal pet	Tuti corin	CBE CC	Chennai	Total
HOSPITAL OUT-PATIENT VISITS													
Paying (New & Review)	46,906	8,500	25,596	30,265	18,159	5,669	4,559	10,878	3,235	4,632	3,022	11,966	1,73,387
Free:Direct walk-in (New & Review)	12,967	1,935	6,376	9,474	6,217	NA	1,150	1,715	1,375	772	NA	2,403	44,384
OUTREACH OUT PATIENT													
Comprehensive Eye Camps	3,315	1,409	3,137	6,430	2,853	NA	NA	432	NA	419	NA	868	18,863
Diabetic Retinopathy camps	1,081	238	361	518	537	NA	NA	128	NA	NA	NA	NA	2,863
Glaucoma Camps	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refraction Camps	650	NA	845	224	NA	NA	NA	157	NA	NA	NA	87	1,963
Mobile Refraction Unit	NA	NA	NA	963	NA	NA	NA	NA	NA	NA	NA	NA	963
School Screening camps	2,367	190	1,376	4,062	373	NA	NA	90	NA	NA	NA	NA	8,458
Paediatric Camps	NA	NA	NA	220	650	NA	NA	NA	972	NA	NA	NA	1842

Vision Centres	20,950	5,749	11,832	4,298	6,447	NA	1,001	NA	1,366	NA	NA	NA	51,643
Community Centres / City Centres	8,576	1,878	2,798	NA	2,271	NA	NA	NA	NA	NA	NA	NA	15,523
Total OP Examinations	96,812	19,899	52,321	56,454	37,507	5,669	6,710	13,400	6,948	5,823	3,022	15,324	3,19,889
Total Number of Camps	20	8	20	32	13	NA	NA	5	NA	4	NA	3	105

SURGERIES

Service Proportion of Cataract Surgeries

Paying	2,471	395	1,053	1,476	751	196	263	616	198	132	121	537	8,209
Free (Direct)	1,989	230	681	1,522	556	123	220	238	292	76	NA	166	6,093
Camp	880	94	585	1,382	410	NA	17	86	16	30	NA	109	3,609
Total Cataract Surgeries	5,340	719	2,319	4,380	1,717	319	500	940	506	238	121	812	17,911

Note: NA - Not Applicable



ARAVIND EYE CARE SYSTEM

Admin