The Operation Eyesight Universal Institute for Eye Cancer

July, August & September 2017
AIM

Achieve life salvage: So that all may live
Achieve eye salvage: So that all may keep their eyes
Achieve vision salvage: So that all may see
Another exciting quarter has passed by. This quarter not only saw an increase in the number of patients seeking appropriate care for the treatment of eye cancer across all campuses of L V Prasad Eye Institute but our services were also recognized by timely funding from a few organizations. We received funding of $50000 for clinical care of underprivileged population with eye cancer from ‘NVIDIA Foundation Compute the Cure Cancer Care Grant’, research funding from ‘UKIERI-UGC Thematic Partnership grant’ towards the project entitled ‘Chick Embryo in vivo xenograft model for ocular cancer studies’, funding towards additional manpower of Social Worker from ‘Jiv Daya Foundation, Dallas’, and funding from “CanKids...Kidscan” towards provision of customized ocular prosthesis for children who have lost the eye due to eye cancer.

Two fellows Dr Shweta Gupta from Madhya Pradesh and Dr Alice Ramyil from Nigeria completed their training in Oculoplasty including training in Ocular Oncology, and will help serve the patients in their regions respectively. Our team members also contributed towards knowledge sharing on eye cancer through various local and state conferences. As we look forward to another exciting quarter, we have commenced our intense campaign towards fighting ‘Retinoblastoma’ by educating our vision technicians and vision guardians about the disease, so that they can help to disseminate the information in the community.

Team

Operation Eyesight Universal Institute for Eye Cancer
Mrs. Lingam Rajani, 81-year-old female resident of Enekipadu, Vijayawada, Andhra Pradesh had developed a swelling on lateral aspect of right lower eyelid which was gradually increasing in size since a month. She visited many local doctors who diagnosed her as having eyelid cancer but denied treatment to her owing to her age. Finally she visited LVPEI’s Kode Venkatadri Chowdary Campus, Vijayawada. She was diagnosed as having right lower eyelid squamous cell carcinoma clinically by Dr Anasua Kapoor who performed an excision biopsy of the mass followed by eyelid reconstruction - all under local anesthesia as it was extremely risky to give general anesthesia to her at this age. On histopathology the diagnosis was confirmed. The old lady was awed to have got back a new lease of life. On her last follow up almost 2 months after surgery, out of gratitude she exclaimed, “I am extremely happy with the treatment I have received and the final cosmetic outcome.” She and her daughter thanked Dr Anasua and the entire hospital staff immensely as she returned home elated.
Mrs Aliva, a 45-year-old female, homemaker, presented to us on 14th August 2017 with a bluish yellow coloured swelling over the right upper eyelid extending upto the brow. The lesion was slowly increasing in size over the past 20 years. There was no associated pain but it caused cosmetic concern to the patient and she was unable to open the right eye completely. She had good vision and the rest of the eye looked normal. She had no other chronic ailment. On detailed examination, the mass was soft, cystic, non-compressible and appeared to be fixed to the surrounding structures. CT scan of the orbit revealed a cystic lesion over the eyelid extending to the anterior orbit. We did excision biopsy and completely removed the mass. Histopathology confirmed it to be a benign cystic lesion of the orbit (Apocrine Hidrocystoma). Post-surgery, the patient was very satisfied. She retains good vision and cosmesis.
Synapse 2017

Synapse, CME (Continuing Medical Education) on Oculoplasty and ocular oncology was organized at LVPEI’s Kode Venkatadri Chowdary campus on 20 August 2017. This CME was designed for practicing ophthalmologists and ophthalmology residents. The main purpose of this CME was to make the delegates familiar with the basic principles, current concepts and approach towards management of common oculoplasty conditions including eye cancers. Eminent national faculty who are masters in the field illustrated the spectrum of oculoplasty and ocular oncology conditions and shared their vast clinical experience. Having the right mix of theoretical and hands-on-training, this workshop focused on case-based discussions and video assisted surgical training. Around 76 participants benefited from this training and highly appreciated the quiz “INQUIZZITIVE” which was part of this CME.
Crosstalk 2017

Crosstalk 2017, 23-24 September, meeting was a knowledge exchange platform for the LVPEI clinical faculty and scientists from across the network to update each other about their ongoing work, experiences and aspirations for the future. The Operation Eyesight Universal Institute for Eye Cancer team discussed their project proposals in the field of ocular oncology and the concepts were greatly appreciated at the meeting.
Dr Shweta Gupta completed her 2-year fellowship in Ophthalmic plastic surgery including Ocular oncology training in June 2017. She has keen interest in ocular oncology and is planning to pursue short-term fellowship in ocular oncology at Birmingham, UK.

Dr Alice Ramyil from Jos, Nigeria, completed her 15-months fellowship in Ophthalmic plastic surgery including Ocular oncology training in September 2017. She will resume her work as faculty in Jos University Teaching Hospital, Jos Plateau state, Nigeria from October 2017.
Clinic Visits and Surgical Procedures for Patients Across the Network

<table>
<thead>
<tr>
<th>Clinic Visits and Surgical Procedures</th>
<th>April 2017</th>
<th>May 2017</th>
<th>June 2017</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients diagnosed with eye tumours</td>
<td>169</td>
<td>140</td>
<td>168</td>
<td>477</td>
</tr>
<tr>
<td>Eye tumour related surgeries</td>
<td>125</td>
<td>127</td>
<td>121</td>
<td>373</td>
</tr>
<tr>
<td>Examination under anaesthesia</td>
<td>111</td>
<td>166</td>
<td>146</td>
<td>423</td>
</tr>
<tr>
<td>Children received chemotherapy</td>
<td>54</td>
<td>72</td>
<td>73</td>
<td>199</td>
</tr>
<tr>
<td>Ocular prosthesis dispensed</td>
<td>13</td>
<td>16</td>
<td>10</td>
<td>39</td>
</tr>
<tr>
<td>Tumour related pathology specimens studied</td>
<td>245</td>
<td>204</td>
<td>210</td>
<td>659</td>
</tr>
</tbody>
</table>

Total Cases - 543
Patient Profile Details

- Non Paying: 123
- Paying: 354

- Female: 224
- Male: 253

- Below age 16: 162
- Above age 16: 315
Publications


Presentations

Swathi Kaliki

3rd Telangana Ophthalmological Society 2017
July 21st to 23rd 2017, Warangal

• Chief instructor for the course “Masterclass in Retinoblastoma”
• Presentation on “Newer horizons in the treatment of retinoblastoma”

4th OFISACON (Ophthalmic Forum of Indian Society of Anaesthesiologists)
September 2nd and 3rd 2017, Hyderabad

• An Update in Ophthalmic oncology

EyePep 2017
September 10th to 16th 2017, Hyderabad

• Focussed session on oncology
Crosstalk 2017
September 23rd and 24th 2017, Hyderabad

Suryasnata Rath
• Moderator for Oncology session

Mamatha Reddy
• Dissecting the role of pRB in retinal development and disease

Indumathi Mariappan
• Deciphering metabolic reprogramming in retinoblastoma using an iPSC model

Chitra Kannabiran
• Molecular genetics of Ocular Tumors

Swathi Kaliki
• Development of sustained cancer targeting peptide delivery to target retinoblastoma

Jaganmohan Reddy
• Exosomes in disease progression, diagnosis and treatment of ocular conditions
Grants/Funding Received

**NVIDIA Foundation:** The Institute has received the ‘Compute the Cure Cancer Care grant’ - $ 50,000 awarded by NVIDIA Foundation. NVIDIA selects 4 nonprofits for this grant. This year they received 40 proposals globally. We were shortlisted in the first round and we were asked to post 5 pictures that depict the work we do in curing cancer. In the next round, employees (about 2000 in more than 10 locations) globally voted for the best four and we emerged as one of the winners. NVIDIA employees felt passionately about the work our Institute is doing to treat underprivileged patients with eye cancer. We won this grant amidst global competition and that is all the more exciting as it is recognition for the work we do.

**UGC-UKIERI Joint Research Programme (UKIERI-III):** UGC-UKIERI Thematic Partnerships awarded grant worth Rs 8,318,268 to the project - Chick Embryo in vivo xenograft model for Ocular Cancer studies. The project which is part of the UGC-UKIERI Joint Research Programme (UKIERI-III) is collaboration between L V Prasad Eye Institute, University of Hyderabad and University of Liverpool. It will focus on developing animal models for ocular cancers.

**Jiv Daya Foundation:** Received funding support worth Rs 183,000 (annual) from Jiv Daya Foundation, Dallas, to improve outcomes for retinoblastoma and pediatric oncology patients by recruiting additional manpower - a social worker/data entry operator. It will also cover additional cost such as purchasing a computer and internet expense.

**CanKids...Kidscan:** Providing funding support worth Rs 300,000 (annual) towards provision of customized ocular prosthesis for children who have lost their eye due to eye cancer and support travel while undergoing chemotherapy. The foundation supports best standards of treatment care and support services for children with cancer (age 0-21) and their families.

**Cure Eye Cancer in Kids:** LVPEI faculty, Dr Virender Singh Sangwan, ran the ‘Airtel Hyderabad Marathon (AHM)’ supporting the cause – Cure Eye Cancer in Kids. The marathon was used as a platform to raise awareness about eye cancer in kids (Retinoblastoma) and raise funds for better diagnosis and treatment of underprivileged children with this cancer. Rs 775,193 was raised through this campaign.
Together, we can fight against RETINOBLASTOMA

If you see any of the above features, see your doctor immediately!
Email: oncology@lvpei.org
Cell # 7032700389

Recognize the disease early and save a child’s life
Services Provided at The Operation Eyesight Universal Institute for Eye Cancer

**Special Investigative Diagnostics**
- A and B-scan ultrasonography
- Ultrasound biomicroscopy
- Digital fundus and slit-lamp camera
- Wide-angle fundus photography (RetCam)
- Digital fluorescein angiography, and Indocyanine green angiography
- Optical coherence tomography
- Computed tomography (CT), Magnetic resonance imaging (MRI), Positron emission tomography (PET-CT), Radionucleotide studies (in collaboration)
- Ophthalmic oncopathology with Rapid intraoperative diagnostic facility including frozen section
- Ophthalmic Genetics and Molecular Biology

**Cutting-edge Treatment**
- Integrated multi-speciality approach
- Integrated cancer surgery and cosmetic reconstruction
- Semiconductor diode laser
- Transpupillary thermotherapy
- Photodynamic therapy
- Frequency-doubled Nd:YAG laser photocoagulation
- Cryotherapy
- Bloodless radiofrequency-assisted surgery
- Navigation-guided orbital surgery
- External beam radiotherapy - IMRT, IGRT, Rapid Arc and Stereotactic Radiosurgery (in collaboration)
- Ruthenium 106 plaque brachytherapy
- Systemic chemotherapy for ophthalmic/intraocular tumors
- Intra vitreal chemotherapy
- Intra arterial chemotherapy (in collaboration)
- Neurosurgical, ENT and head and neck oncosurgical support
- Custom made ocular prosthesis

**Education & Training**

**Cutting-edge Eye Cancer Research**
Clinicians

Swathi Kaliki
Head, The Operation Eyesight
Universal Institute for Eye Cancer
Faculty, Oculoplasty, Oncology and Oculoplasty
services, Hyderabad

P Vijay Anand Reddy
Medical and Radiation Oncologist
Director, Apollo Cancer Hospital,
Hyderabad
Visiting Faculty,
L V Prasad Eye Institute, Hyderabad

Mohammad Javed Ali
Faculty, Oculoplasty, Oncology,
and Dacryology services,
Hyderabad

Tarjani Dave
Faculty, Oculoplasty,
Oncology, and Dacryology
services, Hyderabad

Anasua Kapoor
Faculty
Oculoplasty, Oncology,
and Dacryology services,
Vijayawada

Samir Mohapatra
Faculty
Oculoplasty, Oncology,
and Dacryology services,
Visakhapatnam

Milind N Naik
Head of the Oculoplasty Service
Faculty, Oculoplasty, Oncology,
and Dacryology services,
Hyderabad

Suryasnata Rath
Faculty
Oculoplasty, Oncology and Oculoplasty
services, Hyderabad

Vishal R Raval
Faculty
Retina and intraocular tumors
Vijayawada

Devjyoti Tripathy
Faculty
Oculoplasty, Oncology, and Dacryology services,
Bhubaneswar

Ruchi Mittal
Faculty
Ophthalmic pathology
laboratory, Bhubaneswar,
Visakhapatnam, Vijayawada

Pathologist
Clinical Fellows

Nandini Bothra  J Ganesh Kumar  Nupur Goel  Shikha Taneja

Ajay K  Anamika Patel  Arpita Nayak  Priya Mittal

Ashi D Morawala  B Kavya Madhuri  Arpita Maniar  Sonali Vinay Kumar

Senior Research Fellows

Archana Verma  D C Praneeta  Sandeep Kumar Yadav
Allied Health Personnel

Jyothi A H
Administrator

Vijaya Lakshmi Ch
Patient Care Counselor

Jaydev G
Patient Care Counselor

Naga Venkat A
Patient Care Counselor

Ravindranath A
Patient Care Counselor

Bheemudu Palthiya
Social Worker

George Ramappa
Data Entry Operator

Venthan Maniel
OR Technician

Yashoda
Ophthalmic Nursing Assistant

Tirupathi
Ophthalmic Nursing Assistant

Swapna
Ophthalmic Nursing Assistant

Medical Photographers

SBN Chary

Naresh Gattu

Nishanth Badam
Unique Features of ‘The Operation Eyesight Universal Institute for Eye Cancer’:

• An exclusive institute for eye cancer that is one of its kind in the world
• The oncology services at LVPEI can claim to have more than a decade’s experience in offering plaque radiation therapy and treatment to all types of ophthalmic/ocular tumors. We continue to provide this service at ‘The Operation Eyesight Universal Institute for Eye Cancer’
• Entire value chain of services for eye cancer offered under one roof - patient care, research, education and rehabilitation
• Equipped with in-house chemotherapy unit for children
• The first and the only Institute in India to perform Navigation-assisted surgery for complex orbital tumors
• The first and the only Institute in India to offer exclusive ICO three-month fellowship for diagnosis and treatment of retinoblastoma
• Based on the socio-economic criteria, more than 50% patients are offered the same quality treatment entirely free-of-cost