

# INDIAN TRANSPLANT NEWSLETTER

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MOHAN FOUNDATION

MULTI ORGAN HARVESTING AID NETWORK

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**Editorial Desk**

## Tier Two Cities – ‘New Kid on the Block’ in the Deceased Donation Transplantation Programme as it Reaches New Heights in India

The deceased donation programme in India in 2015 achieved an organ donation rate (ODR) of 0.5 per million population (pmp) [Table 1]. This is almost three times the rate in the year 2012. At this pace we should soon reach an ODR of 1 per million population.

**Table 1: Deceased Organ Donation Statistics – 2015**

State	No. of Donors	*ODR (pmp)	Kidney	Liver	Heart	Lung	Pancreas	Intestine	Hand	Larynx	Total Organs
Tamil Nadu	155	<b>2.1</b>	290	149	51	28	0	1	0	0	<b>519</b>
Kerala	76	<b>2.3</b>	132	61	14	2	1	1	4	1	<b>216</b>
Maharashtra	60	<b>0.5</b>	106	51	5	0	0	0	0	0	<b>222</b>
Telangana & Andhra Pradesh	98	<b>1.2</b>	168	99	19	7	0	0	0	0	<b>391</b>
Karnataka	60	<b>1.0</b>	91	55	11	0	1	0	0	0	<b>158</b>
Gujarat	45	<b>0.7</b>	77	45	0	0	0	0	0	0	<b>167</b>
Madhya Pradesh	3		6	2	1	0	0	0	0	0	<b>9</b>
Uttar Pradesh	4		8	0	0	0	0	0	0	0	<b>8</b>
Delhi-NCR	14		28	14	6	0	0	0	0	0	<b>48</b>
Puducherry	9	<b>7.2</b>	18	2	1	0	0	0	0	0	<b>30</b>
Chandigarh	39	<b>37.0</b>	69	25	1	0	2	0	0	0	<b>97</b>
Rajasthan	7	<b>0.1</b>	14	7	1	0	0	0	0	0	<b>22</b>
Total	570	<b>*0.5</b>	1007	510	110	37	4	2	4	1	<b>1675</b>

**Note:**

- The data projected in the above table is only provisional.
- The data for Gujarat, Andhra Pradesh and Delhi-NCR do not reflect all the deceased donations done in the region.

If one were to look at the individual organs per million population, it is as follows for deceased donation [Table 2].

**Table 2: Brain death & Organs donated – 2015**

Organ	No. of Organs Donated	Donation rate per million population
Kidney	1007	0.83
Liver	510	0.42
Heart	110	0.09
Lung	37	0.03

**Why is this trend healthy?**

So far most of the deceased donations were coming from Tier-one cities with a few exceptions, but in the last two to three years, we have started seeing frequent donations from cities such as Puducherry, Trichy, Madurai, Thanjavur, Pune, Aurangabad, Nashik, Nagpur,

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## MOHAN Foundation participates in the 13<sup>th</sup> Congress of the International Society for Organ Donation and Procurement (ISODP) at Seoul, Republic of Korea



Dr. Sunil Shroff and Ms. Pallavi Kumar with fellow speakers at the congress



Dr. Sunil Shroff & Ms. Pallavi Kumar with the Angels of Change poster at the congress

MOHAN Foundation participated in the 13<sup>th</sup> Congress of the International Society for Organ Donation and Procurement (ISODP) at Seoul, South Korea from October 17-20, 2015. The Congress was titled "From the end, to the start". Dr Sunil Shroff (Managing Trustee) and Ms. Pallavi Kumar (Executive Director, NCR) represented

the Foundation. The Congress was attended by over 400 delegates from across 40 countries.

Dr Sunil Shroff was invited to present in a Round Table discussion in which he shared **perspectives from India on deceased organ donation**. The other countries represented in the discussion were China, Hong Kong, Japan, Taiwan and Thailand. Dr Shroff presented the current status of deceased organ donation in India, the government initiatives, state wise progress on donations and some of the main challenges to the success of the program.

Ms. Pallavi Kumar made a presentation under the poster session on Education and Communication on a new project launched by the Foundation called "**Angels of Change – Volunteers for Organ Donation.**" Under this initiative, select student volunteers from schools and colleges are taken through a customised training module to enable them to undertake awareness initiatives on organ donation amongst various audiences. The objective of this program is to engage the student volunteers – duly sensitised and trained as agents of change – and make them efficient enough to conduct public awareness on organ donation.

## A visit to Gift of Life – USA's most active Organ Procurement Organization

Gift of Life located in Philadelphia is the largest organ procurement organization (OPO) in USA with 447 organ donors and an organ donation rate of 43 per million population in 2014. Dr. Sumana Navin, Course Director, MOHAN Foundation and Dr. Navin Jayakumar, Faculty visited the Gift of Life Donor Program Headquarters on the invitation of Mr. Howard Nathan, President and CEO, Gift of Life Donor Program in November 2015. They were privileged to be a part of a one-day Donation Champion Learning Session on "Supporting Families and Sharing Best Practices."

The next day, Mr. Nathan gave them a tour of the headquarters and an overview. In 1974, Gift of Life began as the Greater Delaware Valley Society of Transplant Surgeons with three employees coordinating just a handful of kidney transplants in eastern Pennsylvania, southern New Jersey and Delaware. Today, Gift of Life stands as the nation's most active and well-respected OPO, with approximately 30,000 organ transplants and hundreds of thousands of tissue transplants coordinated. In addition to its regional clinical work, it has built

a national and international reputation for training transplant and donation professionals through the Gift of Life Institute. And, Gift of Life Family House provides vital support to ease the many challenges family members face while loved ones receive treatment – the region's first such program to serve all area transplant centers.

Mr. Nathan said that Gift of Life pioneered mandatory routine referral policy, becoming the national model for how potential donors are referred to OPOs. And also, their best practices have been taught and shared as the gold standard of how to coordinate donations. Dr. Sumana Navin and Dr. Navin Jayakumar were able to observe the functioning of the 24/7 call centre for assistance and on-site response to evaluate and manage potential organ donors. They also saw the HLA & Serology Lab, OR Recovery Suites, Kidney Preservation Lab and other facilities, all of which have been built with great forethought. Interacting with various members of the staff of Gift of Life gave them a deeper insight into the committed work that was being done there.



Dr. Sumana Navin and Dr. Navin Jayakumar with Mr. Howard Nathan, President and CEO, Gift of Life Donor Program

Mr. Scott Demczynsyn, Director made a presentation on Transplant Coordination, Mr. John Clark, Manager on Transplant Information Center (TIC), Ms. Gweneth O'Shaughnessy on Hospital Services and Ms. Judy Ferrarie, Clinical Educator on Clinical Staff Development. Ms. Theresa Daly, Director, briefed them about Gift of Life Institute.

The spirit of Gift of Life was best encompassed in what Mr. Nathan said, "I like people to say 'No' because I like a challenge!"



# A Recipient Speaks

**Mr. Faisal Abdullah Malik from Pakistan underwent a successful heart transplant on 2<sup>nd</sup> January 2015 in Chennai. In a heartwarming letter below, he shares his experience.**

As-salamu Alaykum Colleagues,

I have reached an important milestone. Anniversary of my first heart transplant! It's now 4:00 PM, January the 2<sup>nd</sup>, 2016. Exactly one year ago today, Allah blessed me with a new life and a new heart. If I look back twenty two months into the past, it was indeed a long horrible war of survival, albeit full of inspiration and wonderful people.

Early morning February 27<sup>th</sup>, 2014, I experienced my first heart failure. After shifting to ICU, I was diagnosed with viral myocarditis which turned into a dilated cardiomyopathy, a condition that weakens and enlarges the heart muscles. In summary, my heart had been damaged beyond repair. "I can't believe it," I said to my doctor in ICU, "I thought I was in good shape. It can't really be that bad." I believed it was the end of my life. With the guidance of Allah, I took the most difficult decision of heart transplant when every single doctor was against it. They suggested me to live a little more with the help of medicines, albeit a handicapped one.

**India was the only country that accepted me as a transplant patient when I was refused from rest of the world.** From 5<sup>th</sup> December 2014, I was kept for 22 days in Cardiothoracic ICU of Fortis Malar Hospital, Chennai. That was a very different world. My heart and other organs were stabilized by an experienced team of doctors and nurses. I was moved to a guest house as I was on the waiting list for a donor heart. I was suddenly moved back to hospital at 8 PM on 1<sup>st</sup> of Jan 2015. "Your (donor) heart has been arranged, you would be moved to OT shortly," my wife said.

I don't remember how I reached the Operation theatre. "How are you feeling Faisal?" I could recognize his voice behind the mask, he was my anaesthesia doctor, Dr. Ajay. "I am not scared of death, Ajay, but I promised my son that I will return," I replied. "Yes, you will... don't worry, you will be alright," he touched my cheek; Dr. Ajay's voice was full of energy. The man with magical hands, my surgeon, Dr. K. R. Balakrishnan, changed my old heart with the new one in just 90 minutes.

I started reciting Kalima and Surah from Quran when I opened my eyes. "There is no



pain in my chest and I am feeling normal," I told my wife. I touched my chest to believe if the procedure had been really performed. I will never forget the movement when my nurse gave me the first sip of cold juice. It was the feeling of life... the feeling of Allah that He is with me... very close to me. I wish I knew more ways to say, "Thank you Allah." I was given not just a second chance at life, but also a life with possibilities never imagined.

**Thank you to the deceased donor and family who gave me the chance to take a deep breath. I am forever grateful for your sacrifice and donation. It means everything to me, life, which is everything. There truly is no better gift. I am sorry for your loss, but know that I am trying to do as best I can to honor your precious gift.**

Now, it is amazing to visit CCU of Tabba Heart Institute, Pakistan to meet patients to give them hope of life. **It gives me the opportunity to meet people and increase awareness about heart transplants. I want people to know that you can live your normal life after transplant. I hope that by doing these things, I can give hope to people waiting for transplants, and also encourage people to consider**

**organ donation.** It's hard to think about being in a position to donate your organs or your loved one's organs. But if you're ever in that position, it's nice to know that something good can come out of it.

May Allah bless you all. Aameen.

Love & Warm Regards,  
**Faisal Abdullah Malik**

... Editorial continued

Mangalore, Thiruvananthapuram, Kochi, Calicut, Indore, Jaipur, Surat, Vijayawada, and so on. These have certainly added to the overall growth of the programme so much so that heart and livers have been flown out of Indore, Aurangabad, Kochi and other cities when there are no local hospitals or patients available for such transplantation. The theme has always been not to 'waste precious organs' when they can save lives. What is important is to develop multi organ transplantation in some of these cities. Currently most of these transplants seem to largely benefit patients from the private sector. What is important is for the Govt. to urgently consider having a private-public model in these tier-two cities so that patients from public sector hospitals too can get benefits. These transplants should be done at a subsidised cost by private hospitals or on par without consideration of any profits.





## Mrs. Malathi Venkatesan



Mrs. Malathi Venkatesan receives Shanmukhananda Ruby Jubilee Health Care Award from former President of India Dr. APJ Abdul Kalam in Mumbai in 2015



Awareness programme with Samudhaya Foundation in Chennai in 2010



'Rally for Life' - motorbike rally flag off in Chennai in 2009



Inauguration of MOHAN Foundation's new office in Chennai in 2010



Felicitation of Deceased Organ Donor Families & Well-wishers of MOHAN Foundation



Launch of Marathi Donor Card in Mumbai in 1999 (Chief Guest Smt. Nita Ambani)



VIII All India Transplant & SAARC Transplant Conference



Event at Rajiv Gandhi Government General Hospital, Chennai in 2010



Inauguration of MOHAN Foundation's new office in Chennai in 2010



'Rally for Life' - motorbike rally in Salem in 2009





awareness campaign with NAC Jewellers in Chennai in 2011



Mrs. Malathi Venkatesan & Mr. S. V. Venkatesan at 'Take 2' - Adspot and short film competition in Chennai in 2010



of MOHAN Foundation at Raj Bhavan, Chennai in 2012



VIII All India Transplant & SAARC Transplant Games in 2003



Transplant Games in 2003



'Take 2' - Adspot and short film competition in Chennai in 2010



'Rally for Life' - motorbike rally - closing ceremony in Chennai in 2009

"I'm not doing enough...you could have involved me more..." That was what Mrs. Malathi Venkatesan told me at the MOHAN Foundation Trustees' meeting in October 2015. A month later she was gone. For me, the Trustees' meeting will never be the same again. In all the years that I had known Mrs. Malathi and seen her battle the havoc that chronic kidney disease wrought in her life, what always shone through was her indomitable spirit. She fought the disease with everything she had – starting with dialysis, a successful transplant that worked for 15 years and then going back on dialysis after the transplant failed. Through her work with TANKER Foundation and MOHAN Foundation, she helped innumerable patients with end-stage organ disease. Whether she was chairing ethics committee meetings at TANKER Foundation or following up on fundraising proposals for MOHAN Foundation, nothing was more important than the mission. I remember the commitment, sincerity and passion that she brought to each of the tasks that she undertook, always aided by her husband Mr. S. V. Venkatesan.

Dr. Sunil Shroff, our Managing Trustee, shared his thoughts, "Malathi was our beloved trustee for the past two decades. It is an irreparable loss to the medical fraternity and the community of social workers. We, at MOHAN Foundation, remember her high degree of leadership qualities not only as our Trustee but also as a human being that has bestowed confidence among millions of patients suffering from kidney disease. She herself has bravely battled kidney disease for last two decades. She was a very good mentor, visionary and a bold person with a human touch."

"She was a warrior," recalls my colleague Pallavi Kumar, who worked with Mrs. Malathi at TANKER Foundation in the early years. Nothing could be more apt. We will miss the warrior... but the battle against organ failure will continue.

**Dr. Sumana Navin**





## Advanced Transplant Coordinators' Workshop –



Inauguration – Ms. Michelle Hunter, NHS Blood and Transplant, UK lighting the lamp with Mrs. Lalitha Raghuram



Dr. Sanjay Deshpande, NHS Blood and Transplant, UK explaining Donation after Circulatory Death (DCD).



Dr. Ajoy S M talking about Quality management in tissue banking



Faculty and participants at the workshop

The Advanced Transplant Coordinators' Workshop – 3<sup>rd</sup> Consultative meeting was held at the Radha Regent, Chennai on 29<sup>th</sup> & 30<sup>th</sup> January 2016. The meeting's focus was to explore strategies to improve organ and tissue donation in India through Donation after Circulatory Death (DCD) and tissue banking. Many stakeholders and experts from different parts of the country and abroad participated in the meeting.

DCD has helped increase the donation rate in many countries in the West, revolutionised lung donation and some are even contemplating a heart transplant after DCD. The international faculty – Dr. Sanjay Deshpande and Ms. Michelle Hunter from NHS Blood and Transplant, UK and Dr. Vijayanand Palaniswamy from Australia shared their experience in this field. Dr. Deshpande said that UK had the largest DCD programme in the world and that the DCD process is underpinned by a number of policies and documents. He also shared a vision of Organ Donation UK 2020, where one of the aims was to increase the deceased donor transplant rate from the current 49 to 74 per million population. Ms. Hunter spoke about how the Specialist Nurse for Organ Donation (SNOD) was the lynchpin in the DCD process. Dr. Vijayanand Palaniswamy, Intensive Care consultant, Royal Darwin Hospital, Australia said that seamless communication and teamwork were essential for DCD to be successful. Dr. Anand Khakhar, Liver Transplant surgeon, Apollo Hospitals, Chennai gave an overview of DCD in India and Dr. Sunil Shroff, Managing Trustee, MOHAN Foundation, presented some real-life case studies on the subject. Dr. Malvinder Singh Sahi, Senior Consultant, Critical Care, Rajiv Gandhi Cancer Institute & Research Centre, New Delhi, spoke about 'Ethical Issues in end of life care', which set off an impassioned debate on passive euthanasia and Do Not Resuscitate (DNR) orders. The consensus was that the

Transplant law in India does not have any clause against DCD, but guidelines from the 'Ministry of Health' were required before hospitals felt comfortable with this type of donation process.



Ms. Aneka Paul, Sir Ratan Tata Trust, Mumbai receiving a memento from Dr. Georgi Abraham

Tissue banking is still in its infancy in India with a few hospitals doing various types of tissue collections. Dr. Alvin Chua, Assistant Director, Transplant Tissue Centre, Singapore gave the audience a perspective on some of the key issues in establishing a state-of-the-art tissue bank. Dr. Chua in his presentations – 'Towards a multi-tissue bank facility: The Singapore experience' and 'Procurement and Sterilisation of Tissues' spoke about the stringent AATB (American



Release of Indian Transplant Newsletter (L to R) – Mrs. Lalitha Raghuram, Dr. Shroff, Dr. Alvin Chua, Dr. Sanjay Deshpande, and Dr. Sumana Navin

## 3<sup>rd</sup> Consultative Meeting – Exploring New Frontiers

Association of Tissue Banks) norms that they follow. He also emphasised the need for an integrative approach between various tissue collection centres to optimise resources. Dr. Sunil Keswani, Director, National Burns Centre, Mumbai, Dr. Ajoy S. M., Dept. of Orthopaedics, QCO, M S Ramaiah Tissue Bank, Bangalore, and Dr. R. R. Sudhir, Head, Dept of Preventive Ophthalmology & Senior Consultant Cornea Services, Sankara Nethralaya, Chennai, gave the Indian perspective on skin donation and skin banking, bone donation and quality management, eye donation and eye banking respectively.

Dr. K. R. Balakrishnan's presentation focused on ex-vivo cardiac care systems and the use of drones in transporting organs. There was a lively panel discussion on 'Unusual Case studies' that was moderated by Dr. Sunil Shroff. One of the key issues discussed was about how doctors need to communicate the news of brain death to the family. The panelists were Dr. P. Magesh, Dept. of Neurosurgery and Dr. R. Radhakrishnan, Dept. of Anaesthesiology, Rajiv Gandhi Government General Hospital, Chennai, Dr. Akila Rajakumar, Intensivist, Global Hospitals, Chennai, Dr. R. Kanimozhi and Dr. G. P. Arulraj, Dept. of Anaesthesiology, Govt. Stanley Hospital, Chennai and Mr. K. Prakash, MOHAN Foundation.

Dr. Thomas Mathew, Convenor and Dr. Noble Gracious, Nodal Officer, Kerala Network for Organ Sharing (KNOS) spoke about the success of deceased organ donation in Kerala being due to the support of the government, public and private hospitals, church and the media. Ms. Aneka Paul of the Sir Ratan Tata Trust, Mumbai gave a concise presentation on 'Getting financial help for transplant surgery.'

The valedictory function was graced by Dr. J. Amalorpavanathan, Member Secretary, Transplant Authority of Tamil Nadu and Dr. Georgi Abraham, Director, Madras Medical Mission Hospital, Chennai. Mrs. Lalitha Raghuram, Country Director, MOHAN Foundation said that all the participants were going back enriched after the meeting. The highlight of the function was the auction of a line of jewellery showcasing the organ donation motif – the green ribbon – designed by Mrs. Bhavna Jagwani, Convenor, MFJCF, Rajasthan.



Jewellery with organ donation motif – the green ribbon



Dr. Alvin Chua, Assistant Director, Transplant Tissue Centre, Singapore addressing the audience



Dr. Malvinder Singh Sahi speaking on Ethical issues in end-of-life care



Dr. Noble Gracious speaking on Kerala Network for Organ Sharing



Dr. Sunil



Panel discussion – (L to R) Dr. Sunil Shroff (moderator), Dr. G. P. Arulraj, Dr. P. Magesh, Dr. R. Radhakrishnan, Dr. Akila Rajakumar, Dr. R. Kanimozhi



Dr. Sunil Keswani, Director, National Burns Centre, Mumbai talking about skin banking in India



Dr. R. R. Sudhir talking about current trends in eye banking in India



## The Govt. Stanley Hospital Team - "All for one and one for all..."



Prof. S. Ravichandran, Director, Dept. of Surgical Gastroenterology, Govt. Stanley Hospital, Chennai



The team of anaesthesiologists at Govt. Stanley Hospital (Sitting L to R) Dr. R. Kanimozhi, Dr. A. Karthik, Dr. A. Gowrishankar, Dr. S. Ambal (Standing L to R) Dr. S. Prasana Vadhanan, Dr. Satish Logidasan, Dr. G. P. Arulraj, Dr. Paul Praveen

'All for one and one for all, united we stand divided we fall', the motto of Alexandre Dumas' Three Musketeers comes to mind when one meets the team of anaesthesiologists of the Cadaver Transplant Programme at Government Stanley Hospital, Chennai. One can feel the passion and energy that emanates from each member of the team – Dr. Satish Logidasan, Dr. G. P. Arulraj, Dr. R. Kanimozhi, Dr. A. Karthik, Dr. A. Gowrishankar, Dr. Paul Praveen, Dr. S. Prasana Vadhanan, Dr. S. Ambal – they have made this programme their own and led by example.

The team applauded the vision of Prof. S. Ravichandran, Director, Dept. of Surgical Gastroenterology and the former directors as they were responsible for the genesis of a dedicated unit for the cadaver transplant programme in Government Stanley Hospital. The team said that they were building on the foundation that all of them helped lay. One of the key factors that has encouraged and motivated the team is the acknowledgement of their inputs from people in the government. Dr. J. Radhakrishnan, IAS, Secretary to Govt. of Tamil Nadu, Dept. of Health & Family Welfare, and Mr. P. W. C. Davidar, IAS, who were instrumental in streamlining deceased organ donation in Tamil Nadu came in for special praise from them.

The team members said that Mr. P. W. C. Davidar appreciated their inputs as being of immense value in implementing change at the grassroots level to facilitate deceased organ donation. This helped the team use a collaborative approach to garner support from other stakeholders within the hospital. They also have ongoing audits to assess and better their performance. As a result, there has been a slow, but steady increase in the number of deceased organ donors – from 2 donors in 2009 to 11 donors in 2013 and now (stop press!) 7 donors in just three months in 2016. They have strong donor optimisation protocols that ensure that brain stem death testing can be done in a planned manner.

Dr. Satish Logidasan said that they see themselves as carrying the baton of life – a privilege given to them by the families of deceased donors. Earning the trust of the family is crucial for this. Dr. R. Kanimozhi added that they explain brain stem death and apnoea testing to the families in an easy-to-understand manner. Thereafter, the option of organ donation is also gently broached. The transplant coordinator is an integral part of the team at all times. Mr. Senthil Kumar has been with them since 2009 and was, in fact, conferred the Best Transplant Coordinator award in 2014 by MOHAN Foundation.

They have an ongoing public advocacy campaign in schools and colleges, which is coordinated by Dr. G. P. Arulraj. He said that some of the toughest questions posed to him came from students who were just 9 or 10 years old! With college students, many questions stemmed from the depiction of organ donation and transplantation in movies – most of what was shown had no bearing on reality, but created doubts among people. This needed to be tackled at the censor board level, the team felt.

Prof. S. Ravichandran is a strong believer in supporting training to ensure sustainability in a government transplant programme. Government Stanley Hospital is the only government hospital in India that has had an ongoing liver transplant programme since 2009 and till now 50 liver transplants have been performed. In fact, three liver transplants were done in the space of just one month this year.

The dynamic leadership of the Dean, Dr. Isaac Christian Moses, has helped the various teams to forge strong bonds that have put Government Stanley Hospital on the deceased donation map of India. The motto 'All for one and one for all...' continues to resonate.

**Dr. Sumana Navin**



# Training Programme

## Transplant Coordinators' Training Programme held in Pune



Inauguration – (L to R) Mr. Bomi Bhote, Ms. Arati Gokhale, Mr. Sarang Awad, IPS, Dr. A. G. Huprikar, Dr. Sumana Navin, Ms. Surekha Joshi



Dr. A. G. Huprikar, Nephrologist, Ruby Hall Clinic speaking on Kidney disease and Kidney Transplantation



Dr. Sangeeta Wagh, Ophthalmologist, Ruby Hall Clinic felicitated by MOHAN Foundation's Trustee Mr. Ramesh Sharma [Director General of Police (Retd)]

A one week Transplant Coordinators' Training Programme was conducted by MOHAN Foundation and ZTCC (Zonal Transplant Coordination Centre), Pune with support from Ruby Hall Clinic from 8<sup>th</sup> – 12<sup>th</sup> February 2016. This programme was held in the R. S. Wadia Auditorium. There were 22 participants not only from Pune region, but also Rajasthan, Gujarat (Rajkot) and Manipal. Ms. Arati Gokhale, Central Coordinator, ZTCC Pune was untiring in her efforts to bring the training programme to Pune.

The training programme was inaugurated by Mr. Sarang Awad, IPS, ACP – Traffic, Pune. He said that he accorded a 'Green corridor' request from ZTCC, Pune the same status as that of a VIP! He was of the opinion that while it was important to conduct organ donation awareness sessions for the traffic police, it was equally if not more important to educate the rural and highway police. There was a need to have a Standard Operating Procedure, he added. Mr. Bomi Bhote, CEO, Ruby Hall Clinic encouraged the participants to make the best use of the training as they were key figures in the organ donation process.

The highlight of the first day of training was a film 'Phir Zindagi' (Life Continues) produced by ZTCC, Pune. Eminent actors Ratna Pathak Shah, Naseeruddin Shah and Neeraj Kabi brought the concept of organ donation to life. In fact, a nomination has been sent for the National Film Awards 2015 in the non-feature film category.

It was extremely motivating for the participants to listen to the expert faculty – Dr. Sushama Patil, Dr. Kapil Zirpe, Dr. A. G. Huprikar, Dr. Sheetal Mahajani, Dr. Atul Mulay, Dr. Sangeeta Wagh and Ms. Arati Gokhale. Senior transplant coordinators Mr. Anirudha Kulkarni from Jupiter Hospital, Mumbai and Ms. Surekha Joshi from Ruby Hall Clinic shared their experiences over the years with the participants, which was extremely beneficial. Mr. Kulkarni's interactions with the police in medicolegal cases were especially enlightening. One of the participants, Dr. Sanjay Rakibe from Nasik shared the story of the first deceased donation process that he was involved with way back in 2002 when a liver was transported from Chennai to Hyderabad by chartered flight. He shared the logistic challenges of transporting an organ at a time when the deceased donation programme was still in a nascent stage. In the group activity, some of the participants performed street theatre on organ donation while some of the others came up with interesting posters on organ donation. At the valedictory function, Dr. A. G. Huprikar, Secretary, ZTCC Pune gave away the completion certificates to the participants.

The MOHAN Foundation faculty comprised Dr. Sumana Navin, Course Director and Mrs. Sujatha Niranjani, Manager – Information Systems. This was the 35<sup>th</sup> training programme conducted by the Foundation since December 2009 and supported by the Sir Ratan Tata Trust and Navajbai Ratan Tata Trust, Mumbai.



Faculty & participants at the training programme



Group activity – Poster Making on Public Education

... continued on page 10

## Dr. Sunil Shroff presented Rashtriya Swayamsiddh Samman Award

**JSPL FOUNDATION**  
Untold Stories of Courage

**Winners-Individual Category**

**Dr. Sunil Shroff**  
**Health, Tamil Nadu**

Based in Chennai, Dr. Sunil Shroff, a renowned urologist and transplant surgeon started the deceased organ donation program in 1996. He founded MOHAN Foundation (a non-profit) in 1997 with the objective of increasing deceased organ donation rate using feasible tool, technology, methodology and process to actively engage community, civil society, religious leaders, policy makers and the government at large to bring about the much needed change, thus, paving the way for deceased organ donation in India. He is called the "Father of Deceased Organ Donation in India" for actively promoting it as founder and managing trustee of the Foundation.

Dr. Sunil Shroff has worked actively with central and state governments to augment organ donation by creating a unique "Indian Model" through his transplant coordination training programs, in South East Asia he has trained more than 350 transplant coordinators in India as well as in Bangladesh contributing to more than 70% of the deceased organ donations taking place in India and saving more than 3,500 lives.

Due to Dr. Sunil Shroff's efforts, deceased organ donation rate doubled to 0.34 per million population in 2014 from 0.16 in 2012 in a country that had almost no donations taking place 17 years back.

On January 14, 2016 Dr. Sunil Shroff was presented the Rashtriya Swayamsiddh Samman Award in the Individual category (Health) by the JSPL (Jindal Steel & Power limited) Foundation in New Delhi. The chief guest for the evening, Mr. Rajiv Pratap Rudy (Union Minister of State-Skill Development and Entrepreneurship), handed over the awards.

Rashtriya Swayamsiddh Samman, instituted by JSPL Foundation, are national level awards aimed at recognising and rewarding grassroots action leaders both at individual and organisational levels. The Awards endeavour to honour inspiring individuals and organisations leading social change on the ground, in the broad areas covering Rural Development, Agriculture Development, Health, Education, Women Empowerment, Public/Social Service, Environment, Entrepreneurship, Innovation & Technology and Livelihood/Vocational Skills. United Nations Global Compact Network India (UN-GCNI), the Indian arm of United Nations Global Compact (UN-GC), the world's largest CSR and Sustainability initiative with 103 Local networks and more than 12,000 signatories in 170 countries, was the knowledge and process partner for the Awards to undertake process consultation to finalise the awardees with the help of regional and national jury members.

Nine individuals and 10 organizations were awarded for their exemplary work. **Dr. Sunil Shroff addressed as the 'father of deceased organ donation in India' was one of the individual awardees.**



Dr. Sunil Shroff – Rashtriya Swayamsiddh Samman awardee



... Training Programme continued

## Foundation Course in Counseling and Transplant Coordination held in Hyderabad

One week Foundation Course in Counseling and Transplant Coordination was held from 14<sup>th</sup> to 18<sup>th</sup> December 2015 at Yashoda Hospitals, Secunderabad. There were 48 participants from various parts of India – Telangana, Maharashtra, Karnataka, Kerala and Gujarat.

At the inaugural function, Dr. Narsimha Rao, Vice President, Yashoda Hospital, said that deceased organ donation is the solution to organ shortage in India. Mrs. Lalitha Raghuram, Country Director, Dr. Sumana Navin, Course Director, Dr. Koti Reddy,

Director – Liaison & Strategy from MOHAN Foundation was present at the inaugural function. The MOHAN Foundation faculty also included Ms. Sujatha Niranjana and Dr. Bhanu Chandra.

There were coherent presentations on the medical aspects of organ donation and transplantation by Dr. Prabir Kumar Roy, Dr. P.B.N Gopal, Dr. Urmila Anandh, Dr. Amardeep Yadav, Dr. Kamal Kiran, Dr. Alla Gokhale, and Dr. Manisha Sahay. Ms. Jayalaxmi and Dr. Bhanu Chandra, senior transplant coordinators from Hyderabad discussed day-to-day challenges in living and deceased organ donation and ways to tackle them.

MOHAN Foundation faculty shared moving donor stories, grief counseling, life skills for a transplant coordinator, legal aspects of organ donation and transplantation, establishment of a deceased donation programme in a hospital, the successful experience in the

Rajiv Gandhi Government General Hospital in Chennai, role of public education and social media in organ donation. Following a post training evaluation, certificates were handed over to the participants by Dr. Surendar Rao at the valedictory session.



Dr. Surendar Rao & Dr. Narsimha Rao giving away completion certificate



Mrs. Lalitha Raghuram during Role Play



## 77 Kidney Paired donation Transplantation in 2015 at IKDRC-ITS, Ahmedabad, India

Kute VB<sup>1</sup>, Patel HV<sup>1</sup>, Shah PR<sup>1</sup>, Shah PS<sup>1</sup>, Vanikar AV<sup>2</sup>, Modi PR<sup>3</sup>, Shah VR<sup>4</sup>, Rizvi SJ<sup>3</sup>, Pal BC<sup>3</sup>, Varyani UT<sup>1</sup>, Wakhare PS<sup>1</sup>, Shinde SG<sup>1</sup>, Godhela VA<sup>1</sup>, MK Shah<sup>1</sup>, Gattani VS<sup>1</sup>, Shah JH<sup>1</sup>, Wadhai KG<sup>1</sup>, Kasat GS<sup>1</sup>, Patil MV<sup>1</sup>, Patel JC<sup>1</sup>, Kumar DP<sup>1</sup>, Trivedi VB<sup>1</sup>, Patel MH<sup>2</sup>, Trivedi HL<sup>1</sup>

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**Conflict of interest:** None

### Abstract

**Introduction:** India is having mainly living donor kidney transplantation (LDKT) program (90%). Desensitization protocols, ABO incompatible kidney transplantation (KT), deceased donor kidney transplant(DDKT) could not be expanded. Kidney paired donation (KPD) promises hope to ESRD patients because of best outcome.

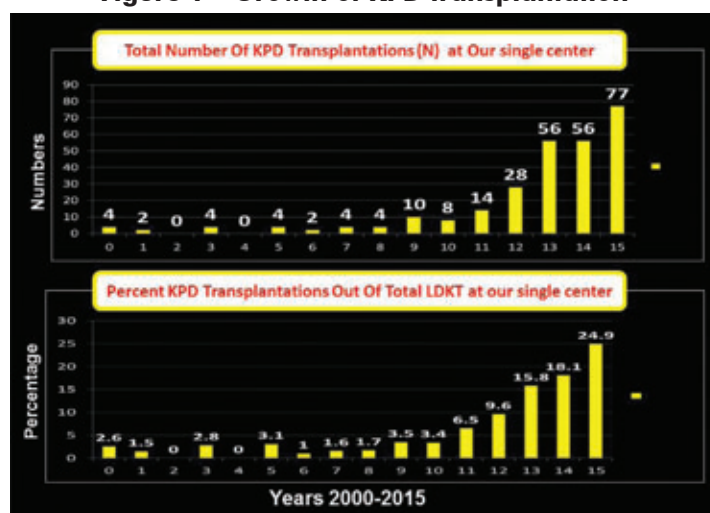
**Methods:** Prospective single center observation study of 77 KPD transplantation [25 two-way, 7 three-way exchanges and one domino chain of 6 pairs] in 2015. We have performed 380 KT in 2015 (71 DDKT, 309 LDKT). Reason for joining KPD was ABO incompatibility (n=45), sensitization (n=26) and improving HLA matching (n=6).

**Results:** 158 pairs were registered and 77 transplants were completed. 13.2% (n=21) are waiting for authorization committee permission despite having KPD donor. We facilitated KPD transplant in 65.3% and 51.3% were completed. Waiting time in KPD was short as compared to DDKT. Graft and patient survival were 100%, 97.4%. 14.2% (n=11) had acute rejection. Transplant match rate among sensitized (n=60) and O group patients (n=62) was 58.3% (n=35), 41.9% (n=26) of which 43.3% (n=26), 29% (n=18) KT were completed and 15% (n=9), 12.9% (n=8) waiting for authorization committee permission. Key to success is formation of registry to maintain database about ABO incompatible/sensitized patients, awareness/mandatory counseling about KPD, expert transplant coordinator, dedicated team. Figure 1 showed growth of KPD transplantation. Figure 2 showed the milestone of our single center KPD transplantation.

**Conclusion:** Our single center KPD has increased the LDKT rate by 25% in year 2015. If productivity of our KPD program is replicated on a national level, it will increase LDKT to more than 25%. To the best of our knowledge this is the largest number of KPD transplantations in single center in one year in the world. It should be promoted to

overcome the organ crisis and shortage of DDKT program when national program does not exist. This will prevent the commercial KT.

**Figure 1 – Growth of KPD transplantation**



**Figure 2 – Milestones: Single center KPD transplantation in India**

Milestones : Single center KPD transplantation in India	
1 <sup>st</sup> June 2000	First two-way KPD transplantation
2000-2011	56 KPD transplantations (2.5 % of LDKT)
13 <sup>th</sup> Feb 2013	First three-way KPD transplantation
14 <sup>th</sup> March 2013	Ten KPD transplantations on world kidney day 2013
2013	56 KPD transplantations (15.8% of LDKT)
6 <sup>th</sup> May 2014	First 3-way KPD transplantation in combination with desensitization protocol
2014	56 KPD transplantations (18.1 % of LDKT)
17 <sup>th</sup> Feb 2015	First international 2-way KPD transplant between patients from Portugal and India
August 2015	First non-simultaneous domino chain transplant of 6 ESRD patients and 6 donors
2015	77 KPD transplantations (25 % of LDKT)

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I, Sunil Shroff, hereby declare that the particulars given above are true to the best of my knowledge and belief.

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Sd/-  
Sunil Shroff  
Signature of Publisher





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