

BEST PRACTICE 2

TITLE: ORGAN TRANSPLANTATION INITIATIVES AT DPU
MEDICAL HOSPITAL

1. Objective:

Organ Donation is retrieving donor's organs like heart, liver, kidneys, intestines, lungs and pancreas, after death or from brain-dead individuals for the purpose of transplanting them into another person who needs an organ. It aids in saving the life of terminally ailing patients. DPU being an advanced tertiary health care centre with sophisticated and advanced surgical facilities, instrumentation and procedures, trains PG students from Medical, Surgical and Nursing specialties in human transplantation surgery, treatment, rehabilitation & follow up. The program also endeavours to create awareness about organ transplant and cadaveric organ transplant among donors. Thus, DPU also supports national programmes such as control of blindness.

2. Context:

DPU through its organ donation initiative aims to significantly reduce the mortality rate among patients with major organ failure. With the availability of good number of donors creating awareness about organ donation from live as well as brain dead/cadavers the bridge between the demand and supply of organs can be reduced. With our state of art organ transplant facility, the objective is to save lives, improve transplantation outcomes and reduce recipients waiting time. It also increases opportunities for patients without living donors to receive organs from deceased donors. Training of superspecialists as well as postgraduate students in organ transplantation is the need of the hour, that is being partly fulfilled through this initiative.

3. Practice:

DPU has a state of art modular OTs with Da Vinci Robotic Surgical System. This supports organ transplant facility in various departments such as CVTS, Cardiology, Nephrology, Urology, Gastroenterology and Ophthalmology. Internationally qualified superspecialists are available to conduct these procedures. The support system required for the organ transplant surgeries such

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as critical support services, ICUs, nursing staff and other state of the art support facilities are available at DPU with well-trained manpower.

4. **Evidence of success**

A great variety of organ transplant procedures have been conducted in DPU for the last several years. The transplants include renal, liver, cornea, and heart. The statistical data for the same is given as follows:

Organ Transplant data:

Sr.No.	Evidence of Success	Total no of Transplants	Live	Cadaveric
1.	Renal	116	92	24
2.	Liver	30	2	28
3.	Corneal	35	-	35
4.	Heart	01	-	01

The organs received are not only utilized at DPU hospital but have also been sent to other hospitals through provision of green corridor for the use of needy patients. The details are as follows:

Utilization of Donated Organs:

Sr. No.	Evidence of Success	Total no of organs received	Utilized in DPU Patient	Sent to other hospitals
1.	Renal	131	116	15
2.	Liver	32	30	2
3.	Corneal	80	35	47
4.	Heart	05	01	04

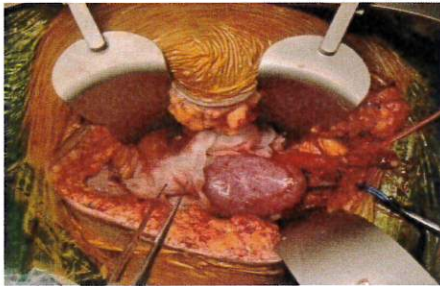
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The success rate of the various transplant surgeries as depicted above results in DPU medical hospital being a high priority destination for health care.

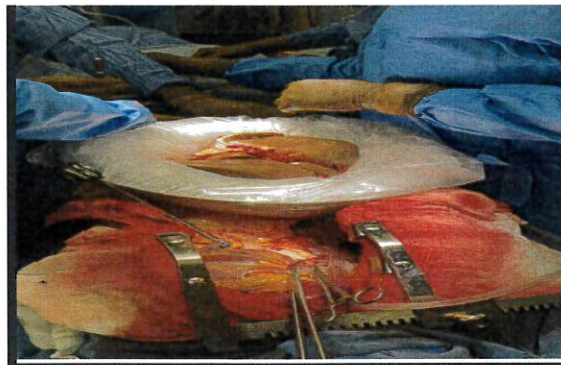
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Kidney Transplants



Liver Transplants



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DPU conducts every year several awareness workshops about the importance of organ donation through several NSS activities. Some of the activities related to voluntary body and organ donation are as follows:

- Body donation pledge forms filled – 1907
- Organ donation pledged – 618
- Bodies donated after awareness campaign – 51
- Corneal donations – 37
- PhD completed - 1



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The conduct of these awareness camps has resulted in donation of several organs by the relatives of patients and the summary of the same is given as follows:


Total statistics of organ transplantation & donation	
Total BSD declaration from 2018 to till date	51
Total BSD converted into organ donation from 2018 to till date	33
Total organ donation declined due to medical reason	9
Cadaveric organ donation till date	24
Number of organs utilized till date	77
In-house organ utilization	44
Organ shared with various hospitals through ZTCC, Pune	24
Organ Received from various hospitals through ZTCC, Pune	9


5. Problems encountered and recourses required

The major problems encountered in this endeavour is creating awareness and sensitization of the community towards organ donation. These challenges have been overcome to a large extent with the help of various NGO's.

The other critical challenge is management of brain-dead patients who are potential cadaveric donors. Meticulous attention to hemodynamic and hormonal changes with goal directed intensivists management can have a profound impact on organ eligibility and retrieval rates.

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