



# MGM INSTITUTE OF HEALTH SCIENCES

(Deemed University u/s 3 of UGC Act, 1956)

**Grade 'A++' Accredited by NAAC**

Sector-01, Kamothe, Navi Mumbai - 410 209

Tel 022-27432471, 022-27432994, Fax 022 – 27431094

E-mail : registrar@mgmuhs.com ; Website : www.mgmuhs.com

## AQAR- 2021-22

Best Practice 2 : **National Organ and Tissue Transplant Programme (NOTP)**

**Title of the Practice:** National Organ and Tissue Transplant Programme (NOTP)

### **Objectives of the Practice:**

- To provide quality, affordable, accessible organ & tissue transplant services
- To create health care providers trained in organ & tissue transplant
- To create awareness among public and intensivists regarding organ donation & brain death

### **The Context :**

The shortage of organ and tissue donors for patients requiring transplants is a global problem and is more pronounced in India. A huge gap exists between the number of patients who need organ or tissue transplants and the availability of the same. Moreover, these facilities are available only at metropolitan cities & corporate hospitals which a poor man from rural area can neither access nor afford.

### **The Practice:**

The Institute is the first centre in the Marathwada and Khandesh region to provide liver transplant services, and also the only centre in the region providing all three major organ transplant services (kidney, liver and bone marrow).

- The first living donor kidney transplant was carried out in 2011.
- MGM Medical College and hospital provides early detection of Chronic Kidney Disease (CKD), and management for CKD in the form of anaemia correction, screening for Mineral Bone Disorder (MBD), nutritional assessment, construction of arterio-venous fistula and counselling for kidney transplant.
- Numerous public awareness programs for organ donation are conducted.
- Donor nephrectomy was started laparoscopically which turned out to be a big incentive for the innocent donor. In 2018, the milestone of 100 transplants was achieved after a short period of 5 years,.
- Further, Government of Maharashtra approved Zonal Transplant Coordination Center (ZTCC) for Marathwada region, with Secretariat Office established at the Institute.
- The first cadaver organ donation was conducted in 2016.
- The institute provides affordable hemodialysis to all, and free dialysis and transplant services for Below Poverty Line (BPL) card holders under the MGJPJAY scheme.
- In March 2017, the Institute obtained permission to perform **liver**
- In June 2018, the first **bone marrow transplant** was successfully carried out.
- In 2018, Corneal Transplant was successfully carried out.



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### The Transplant Centre carries out the following roles:

- Data entry of all transplant-related information as per format on NOTTO online registry.
- Competent authority in the hospital takes decision about suitability of living organ donation based on interview of donor, recipient and other family members.
- Training of transplant coordinator, lab technicians, and retrieval teams.
- Training on brain stem death for doctors, nurses, and technicians.
- Conducting IEC (Information, Education, Communication) activities for the general public, relatives of patient in ICU, and selected groups in the community for encouraging organ pledge and organ donation.
- Conducting advocacy workshops/seminars on organ donation.
- Conducting organ retrieval and transplantation.

### *Pledge to Donate Organs*

- 911 pledges for organ donation have been received till date
- The Pledge your organ campaign, is an initiative of the Institute in support of organ donation.

### Statistics

#### A) Kidney Transplant (Live and Cadaver)

- Total 120 Kidney Transplant performed including 11 Cadaver kidneys.
- Four cadaver organ retrievals were successfully organized. 6 kidneys, 1 heart, 3 livers (total 10 organs) and 6 corneas have been retrieved till date
- The only Medical College (apart from SGS Medical College, Mumbai) to have successfully carried out over 100 renal transplants in 5 years at lowest cost in Maharashtra

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Number of transplants	05	03	14	20	26	25	19	07	01	02

#### B) Liver Transplant

- In March 2017, the Institute obtained permission to perform liver transplant.
- Of the four cadaver organ retrievals, two livers were harvested
- Two **liver transplants** were successfully performed in 2018.

#### C) Bone Marrow transplantation

- In 2018-19, **12 Bone marrow transplants** were performed & in 2019-20, **06 Bone marrow Transplants** were performed.



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### **D) Corneal Transplant**

In 2018-19, **02** , in 2019-20, **13** & in 2021-22, **07** Corneal Transplants were Performed.

### **Teaching & Learning**

- PG Students of General Medicine, post graduate DM students, B.Sc. Dialysis technicians are trained in Nephrology department
- Fellowship in Nephrology is offered.
- CME's by experts in the field to promote organ donation among doctors & intensivists have been conducted

### **Extension & Outreach Activities**

- ZTCC for Marathwada region is situated in the Institute
- CME programmes in Nephrology are held for physicians, for haemodialysis technicians, and for transplant co-ordinators and counsellors.
- National and International conferences organized in the last 3 years include the West Zone Conference of Indian Society of Nephrology (2012), Workshop on Renal Histopathology in January 2014, ISOT (Indian Society of Organ Transplantation) 2015 and IANCON (Annual Conference of Indian Academy of Nephrology) 2017.
- World Kidney Day and Organ Donor Day are celebrated.
- Diagnostic camps are regularly held for early detection of kidney diseases.
- 30 education programmes for awareness of kidney donation amongst public & nurses have been conducted in the last three years
- Education programmes for CAPD patients and relatives 2013 and 2018

### **Research**

Ongoing research projects are focused on the following areas

- factors affecting nutritional status in dialysis patients,
- psychosocial assessment of CKD patients
- post kidney transplant hyperthyroidism
- efficacy of MINUS ONE day protocol of Tacrolimus in Kidney Transplant Recipients
- assessment of Flow velocity across A-V fistula in patients with CKD
- clinical profile of patients with CKD-u (unknown aetiology) and AKI in ICU.

11 scientific papers have been published in national and international journals such as Indian Journal of Peritoneal Dialysis, Transplantation journal and Nephrology Open journal.



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## **AQAR- 2021-22**

### **Evidence of success:**

- Government of Maharashtra approved Zonal Transplant Coordination Center (ZTCC) for Marathwada region, with Secretariat Office established at the Institute.
- Under Jeevandayi Yojana more that 100 renal transplants and successful start to liver and bone marrow transplants.
- Vice President Award to transplant coordinator.
- Felicitations by Health minister of Orissa and Aurangabad Collector.

### **Problems Encountered and Resources:**

Training of health personnel