



The Department of Plastic Surgery at KEM Hospital has recently been granted the certificate to carry out Hand transplants.

We are now looking to provide the benefit of our expertise to the selected patients.

As this is a rarely performed procedure, with only one centre in our country (Amrita Institute of Medical Sciences at Kochi) having done 3 hand transplants till now, people who could benefit from this procedure are still not aware about it.

There could be many double hand amputees living a difficult life in the interiors of our state / country.

We would like to create public awareness about this category of transplants from point of view of recipients as well as donors.

DIRECTORATE OF HEALTH SERVICES. (MAHARASHTRASTATE)
Arogya Bhavan, St.George's Hospital Compound, P.D'Mello Road, Mumbai-400 001.

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No.DHS/THOA/KEM Hospital Mumbai /Hand Transp.Team/16
Date- 18/05/2016

To,
Director,
(M.E. & M.H.)
Seth G.S.Medical college &
King Edward VII Memorial Hospital
Parel, Mumbai-400 012.

Sub:- Transplantation of Human Organ Act 1994
Hand Transplant Committee
Ref:- Your application dtd. 28/04/2016

With reference to your application, the **Hand Transplant Team** of specialists whose names have been sent to this office for the approval of the State Appropriate Authority under the provision of the Transplantation of Human Organs Act 1994, for the purpose of **Hand Transplantations** operations in your hospital, the State Appropriate Authority herewith grants recognition to the **Hand Transplant Team** of your hospital as shown as below. This is valid for the period of five years from the date of issue.

HAND TRANSPLANT TEAM

| Sr.No. | Designation | Name of Consultant |
|--------|-----------------------------|---|
| 1 | Plastic Surgeon | Dr. Vinita Puri, Plastic Surgery Dr. Venkateshwaran N, Plastic Surgery Dr. Manoj Bacchav, Plastic Surgery Dr. Amit Bhalotia, Plastic Surgery |
| 2 | Orthopedics Surgeon | Dr. S.K. Shrivastav, Orth. Surgeon Dr. Bibhas Dasgupta, Orth.Surgeon |
| 3 | Transplant Anesthesiologist | Dr. Indrani Hemankumar, Anesthesiologist Dr. Sweta Salgaonkar, Anesthesiologist |

- If any doctor resigns the institute, then intimate immediately to the Appropriate Authority.
- If any new doctor is joining to your institute, then before joining the team, the institute has to take the permission on behalf of the doctor from Appropriate Authority, without which the newly joined doctor cannot work in the transplantation program.

Dr. Mohan A. Jadhav
Appropriate Authority (THOA)
and
Director of Health Services, Mumbai

CONTACT US

Consultation: Walk-in, no appointment needed. 1.30pm every Tue / Thu

Venue: Plastic surgery OPD-11, Ground floor multi-storied building

Please register yourself at the KEM OPD registration counter no 16 in old Building near gate no 2.

Email: infoplasticsurgery@kem.edu

HAND TRANSPLANTS

Advances in immunosuppressive drugs for transplantation have now allowed for non-life threatening types of transplants to be performed including hand transplants as the hand is crucial to the life of any person. The goal of the procedure is to restore function to the patient with a transplanted hand. The patient will have to undergo clinical evaluations which will include a history and physical examination, x-ray evaluation, psychosocial evaluation, nerve conduction studies, tissue studies and laboratory studies.

Patient Selection Criteria

- Patient between the age of 18 and 60
- Amputated just above the wrist
- Bilateral or dominant hand amputation
- Understands the advantages and risks involved in this surgical technique.
- Recipient should be otherwise healthy and mentally sane.
- Be able to give informed consent
- Resident in the country
- Has family support
- Has local family doctor
- Willing to live in Mumbai city for a year for follow up

Donor Selection Criteria

- Donor selection is similar to selection in solid organ donations.
- Donors will meet the criteria of total and irreversible damage to the brain
- Family will consent to organ donation.
- Size and blood type are the only donor requirements which are mandatory.
- The gender, skin tone, race and age are more of an individual preference than a mandatory requirement.

The Surgery

Hand transplantation is an extremely complex procedure. The surgery can last from 12-16 hours. In comparison, a typical heart transplant takes six to eight hours and a liver transplant, eight to twelve hours. Post-operative complications include blockage of the blood supply, infections and rejection.

Drug Therapy

All hand transplant patients will be on immunosuppressive therapy which includes drugs that must be taken every day for the life of the hand transplant. The immunosuppressant drug therapy is similar to the drugs that are taken by kidney transplant patients. Risk of infection caused by the immunosuppressive drugs may make it necessary for recipients to alter their daily activities particularly in the first six months.

Following the hand transplant procedure, intensive physical therapy will be required to regain hand and arm function.

The patient will also have biopsies and lab evaluations as needed.

Individuals will need to stay in the Mumbai area for a year at least.