

VI. Kidney Transplantation

Criteria for establishment of Kidney Transplant Centre:

The Appropriate Authority for Organ Transplantation through specialized committees has laid down certain standards for establishment of kidney transplant centres in the State:

1. Working Staff:

1.1 Consultant Kidney Transplant Surgeon:

One consultant kidney transplant surgeon with at least three year's training from a recognized kidney transplant centre must be available.

1.2 Consultant Nephrologist:

At least nephrologists with a minimum three years experience from a recognized kidney transplant centre with facilities for dialysis available in the centre.

1.3 Nursing Staff:

They must be highly experienced to care for the patients during and after kidney transplantation.

1.4 Organ transplant Co-ordinator.

1.5 Dietician.

1.6 Social Worker.

2. Technical facilities required:

2.1 The hospital in which a kidney transplant centre will be established must have the following services available.

2.2 At least two operating rooms must be available.

2.3 There should be at least two rooms for management of post transplant patients.

3. Support Services:

3.1 Laboratory

All routine investigations for the patients either before or after the transplantation must be available.

Facilities to do tissue typing. Cytotoxic antibodies and blood levels of drugs including Cyclosporine or similar drugs should be available in the institution or any other recognized laboratory in the city.

3.2 Radiology Conventional X-ray, ultrasound must be available in the hospital. Radioisotope scanning and computerized axial tomography must be available in the hospital or in the neighbourhood in the city.

3.3 Blood Bank facilities must be available in the institution itself.

4. Drugs:

The following drugs must be permanently available in the Centre:

4.1 Immunosuppressive drugs

- Cyclosporine
- Asathioprine
- Prednisolone
- Other similar drugs

- 4.2 Drugs for treating rejection episodes such as Methul Prednisolone etc.
- 4.3 Solution for perfusing the organs such as Eurocolling solution or Wiscounsin
- 4.4 Unitercity solution or such other solution.
- 4.5 Drugs for treating Bacterial, Viral, Fungal or Parsitic infection.

Criteria for continuation of kidney transplant centres.

- 5.1 Application of the Criteria relevant for the establishment of new transplant centres as mentioned previously.
- 5.2 The number of renal transplants performed in the centre as far as possible should be more than 12 per year.
- 5.3 They must contribute in the training activities to the staff and help in the management of brain-dead cases in the ICU's attached to it in the collaboration with the ZCC / Appropriate Authority for Organ Transplantation and must deliver to it reports about these activities.
- 5.4 The transplant centre must submit regular reports about its activities to the ZCC / Appropriate Authority for Organ Transplantation.
- 5.5 A detailed scientific annual report about the results of transplantation performed in each centre must be forwarded to the ZCC / Appropriate Authority for Organ Transplantation. It should include the following points.
 - The conditions of the transplanted patients.
 - The state of the transplanted kidney.
 - Rate of complication.
- 5.6 All the transplant centres will be evaluated every five years by Appropriate Authority for Organ Transplantation or any times as a surprise check.
- 5.7 The Kidney Transplant Committee will meet annually at the ZCC to review all the reports from different transplant centres in the State including mortality rate, incidence of organ rejection, complications of transplantation as well as the report submitted by the smaller committee. If it appears that one of these centres is not applying these norms and / or the success rate of transplant surgeries performed is not satisfactory, the committee will visit the centre in order to explore the reasons and handicaps preventing this centre from carrying out its functions properly. The centre will be given three months to improve its performance following which the kidney transplant committee will re-evaluate the centre with the right to submit the proposal of closure of this centre to Appropriate Authority, if no improvement occurs.
- 5.8 These criteria apply to all kidney transplant centres currently existing in the State as well as to the centres that will be opened in the future.
- 5.9 A smaller committee will be established from the main committee, which has the right to visit any kidney transplant centre at any time and whenever it is judged necessary to examine the pace of work in the respective centre.

Priority criteria for kidney transplantation:

The Appropriate Authority for Organ Transplantation has laid down distribution criteria for kidney transplantation as follows:

First: Vascular Access Failure:

- I. Failure of A-V shunt / Fistula / Graft-0.2 per vessel failed (to maximum of 1) score.
- II. Failure of Synthetic graft after multiple vascular access failure 3.0 (score).

Those who has synthetic graft failure without prior A-V fistula failure will continue to get 0.2 per vessel failure. It is mandatory that the patients of multiple access failure will be scrutinized / examined by the Appropriate Authority before the scoring is awarded.

Second: For patients who do not have vascular access problem, the priority level is based on the points as follows:

PRIORITY CRITERIA

1. Cytotoxic antibodies
2. Age: 3 to 5 yrs
6 to 10 yrs
11 to 45 yrs
3. Period on dialysis
4. Previous failed LRDT's
5. HLA match
6. Identical blood group
7. Identical age group

PRIOTIRY SCORE

1 for each 10% more than 50%

3

2

1

0.1 per each month on dialysis

2

1 per each antigen match

3

2

Third: Adequacy of dialysis cannot be achieved inspite of proper dialysis schedule due to various medical technical problems – 1.5 points (score)..

Fourth: The waiting recipients of ZTCC gets 0.1 score for each month of waiting only stage V CKD will get this benefits as this system will be activated only after receiving the information about initiation of dialysis to the said patient from the respective hospital.

Distribution of kidneys:

The retrieved kidneys will be distributed as follows:

One kidney will be transplanted to a suitable patient from the hospital where the kidney has been harvested according to the priority list of that Institution. If the institution harvesting the kidneys has a suitable well matched recipient they are allowed to use the second kidney also. If not, the second kidney will be transplanted to the patient from the local city based waiting list : according to the priority which is put by ZCC / Appropriate Authority for Organ Transplantation. If there is no suitable recipient in the city waiting list, the second kidney will go to the recipient from the State waiting list, if there is no suitable Maharashtra patient anywhere in the State, the kidney may be transplanted to a non-Maharashtra patient with priority; and after obtaining consent from the ZCC / Appropriate Authority.