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Pre-transplant Recipient evaluation & management: An Update in 2021

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1. Why choosing kidney transplant

- 1) Survival Benefit of Transplant vs Remaining on Waiting List

2. When is the right time for kidney transplant?

- 1) Early referral saves lives

3. What type of kidney transplant?

- 1) Projected life expectancy after ESRD onset by recipient age and treatment modality.

4. Rules of recipient evaluation

The first rule: First Do no harm (to the individual patient)

The second rule: First Do no harm (to the list)

The third rule: First Do no harm (to the donor)

5. Objective of Recipient evaluation

- 1) Identify risk factors that:

- (1) absolutely prohibit transplantation

- (2) mandate treatment

- (3) require other special consideration before proceeding to transplantation.

- 2) recognize medical, surgical, psychosocial, and social risk factors that will require optimization prior to transplantation

- 3) offer education, guidance, and counseling to patients about several aspects of kidney transplantation.

- 4) assess immunological risk

- 5) identify and update recommended screening and health maintenance procedures

- 6) plan the immunosuppressive protocol, infectious disease prophylaxis and additional monitoring ahead of time

6. There are few absolute contraindications to transplantation:

Current Absolute Contraindications to Transplantation

- Active sepsis
- Current uncontrolled malignancy
- Uncontrolled psychosis
- Active drug dependence
- Any medical condition with a severely shortened life expectancy (<1 to 2 years)
- Positive T cell CDC crossmatch

Historical Contraindications to Transplantation*

- HIV infection
- Hepatitis B and C infection
- Obesity
- Mood disorders
- Age older than 60 years
- Previous malignancy
- Blood group incompatibility

7. Medical evaluation by systems

- 1) Cardiac
- 2) Chronic infection
- 3) Malignancy
- 4) Renal
- 5) Hematology
- 6) Cerebrovascular disease
- 7) Pulmonary
- 8) Gastrointestinal
- 9) Psychiatric evaluation

8. Conclusion

- 1) Despite an increase risk of mortality immediately post-transplant, there is a clear survival benefit in kidney transplantation compared to remaining on the waiting list.
- 2) There is a clear survival benefit in preemptive transplantation.
- 3) Recipient evaluation identifies risk factors that:
 - (1) absolutely prohibit transplantation
 - (2) mandate treatment
 - (3) require other special consideration before proceeding to transplantation.