

How to Overcome the Challenges in Expanding the Living Donor Transplant Programme in Egypt

Prof Ahmed Halawa

Consultant Transplant Surgeon

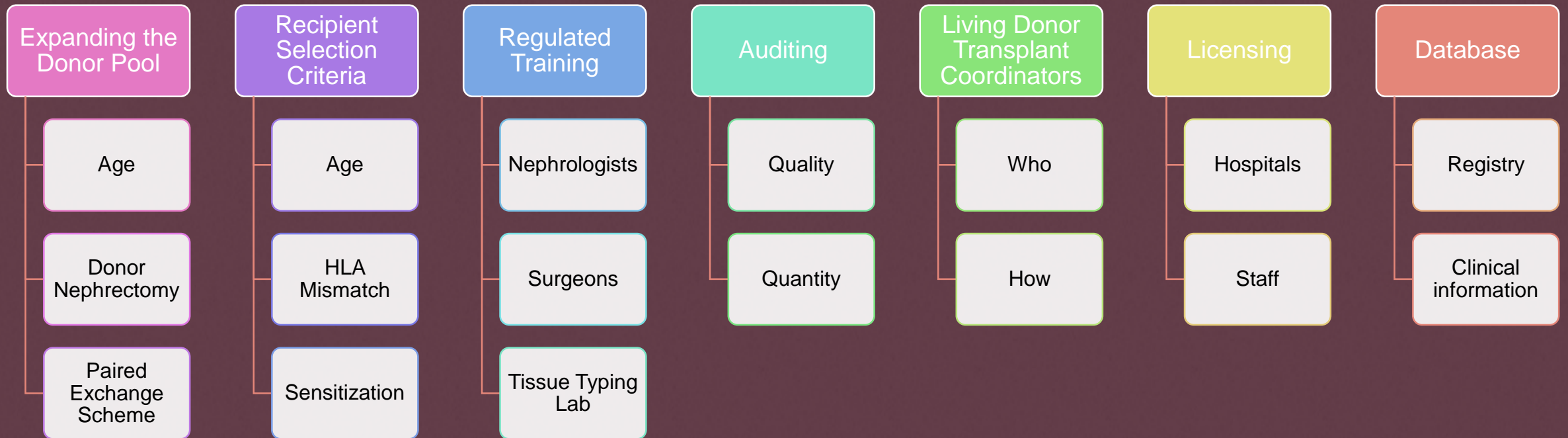
Sheffield Teaching Hospitals

President of the World Kidney Academy

United Kingdom



Agenda



Restructuring



Expanding the Donor Pool



Donor Age

- Physiological age rather than chronological age (no cutoff).
- There's no age limit for donations or signing up. People in their 50s, 60s, 70s, and older have donated and received organs.
- We have successfully taken a kidney from a 73-year-old donor to his 70-year-old wife.





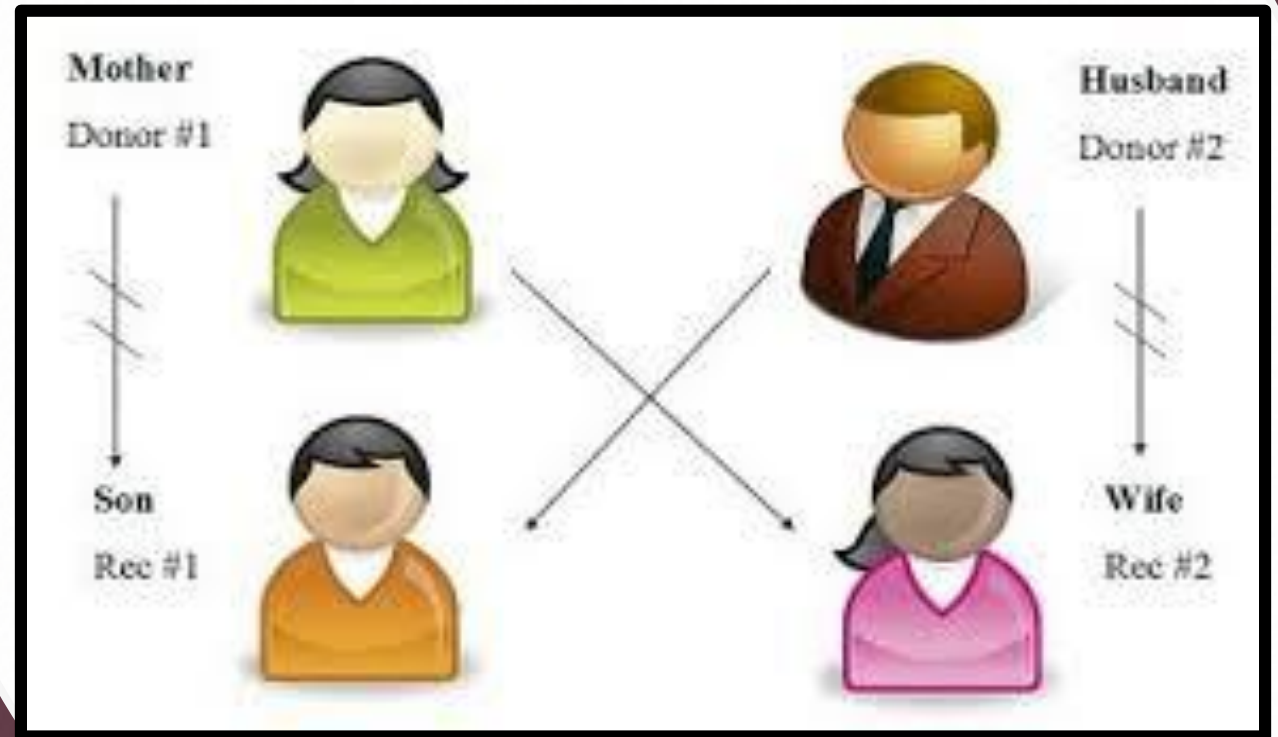
Donor Nephrectomy

- Laparoscopic vs open
- Laparoscopic donor nephrectomy (LDN) can expand the donor pool for kidney transplants. LDN is a minimally invasive procedure that can reduce pain and shorten recovery time for donors. This can help potential donors decide to donate, increasing the number of people willing to donate a kidney.

<https://www.sciencedirect.com/science/article/abs/pii/S0041134515006399>

Paired Exchange Scheme

- Paired exchange schemes can expand the donor pool for kidney transplants by providing an alternative for incompatible donor-recipient pairs.
- It has increased the number of transplants by 20% in the USA and 22% in the UK.



<https://www.organdonation.nhs.uk/get-involved/news/uk-s-living-kidney-sharing-scheme-hits-1000th-transplant-milestone/>

Recipient Selection Criteria



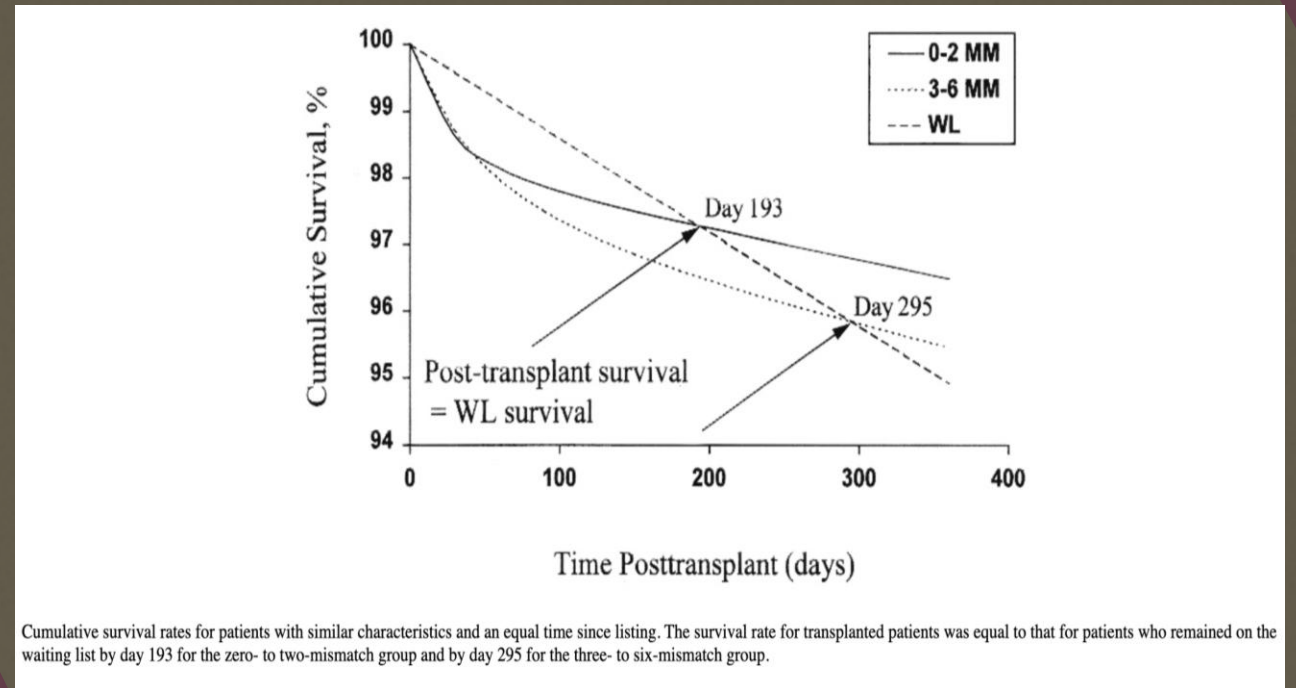
Age

- Physiological age rather than chronological age
- In 2023, about 64% of all the people who received organ transplants were 50 or older. Over 23% of all receiving patients were 65 or older.
- Transplantation may improve the quality of life rather than survival in elderly.

<https://optn.transplant.hrsa.gov/data/view-data-reports/>

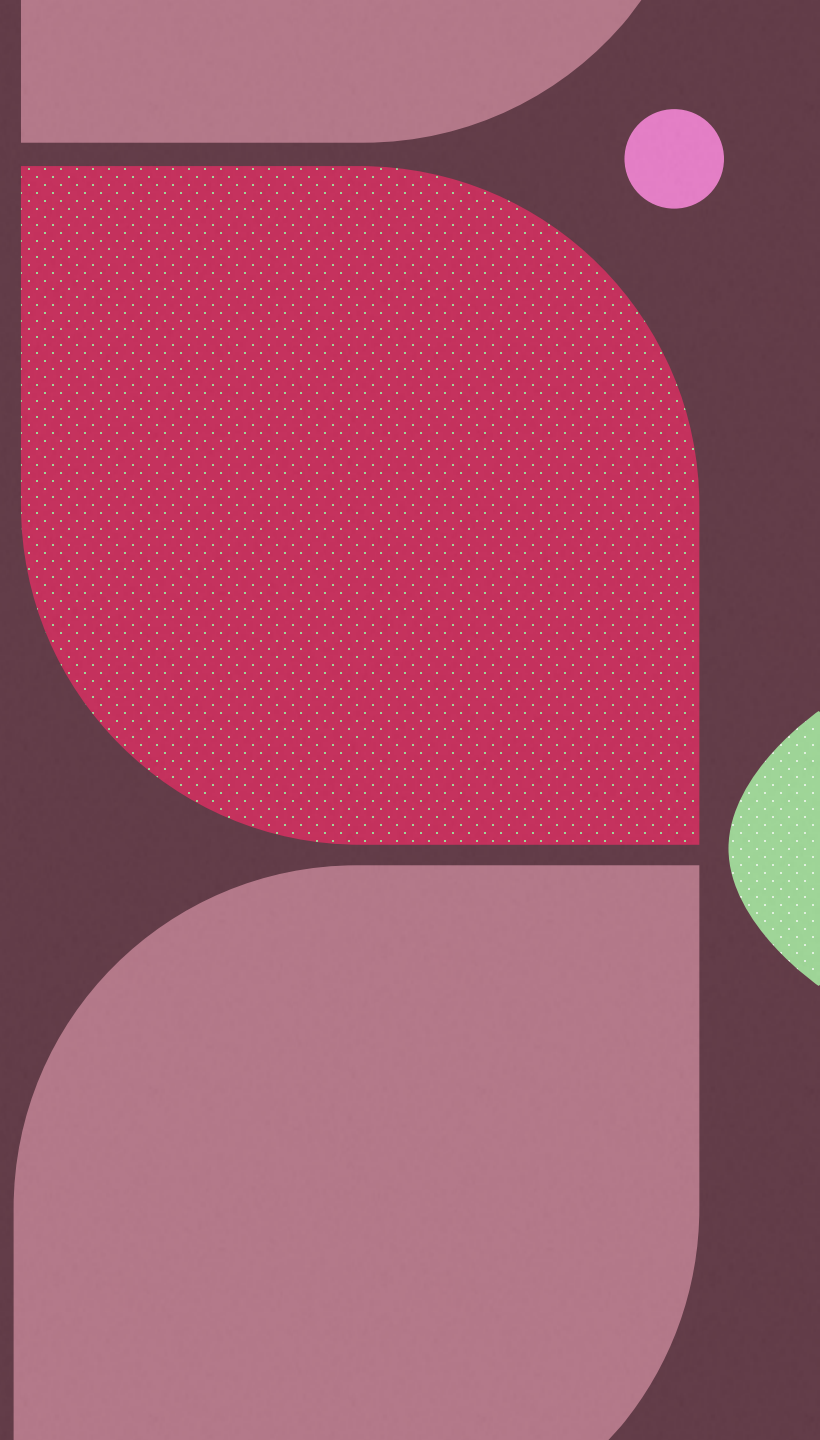
HLA Mismatch

- Less weight on the HLA mismatch, especially for the elderly.
- Kidney transplantation is more beneficial than remaining on the waiting list. Even poorly matched kidneys significantly reduced the risk of mortality by 6 months compared with the mortality risk of continuing to wait.
- Patients receive the maximum benefit when transplanted with well-matched kidneys.



Sensitisation

- Understanding the indication of desensitisation could reduce the cost and subsequently increase the number of transplants.
- Still, you can transplant highly sensitised patients without prior desensitisation.

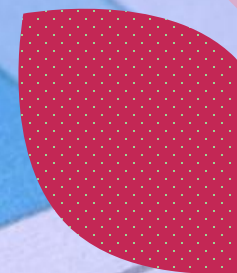
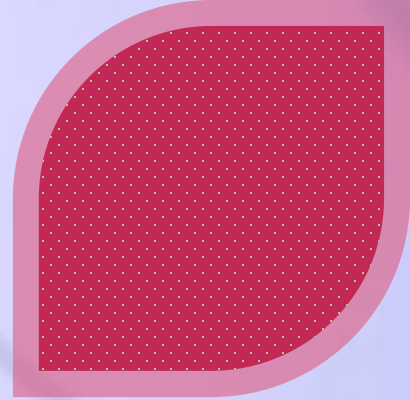


Regulated Training



- It is one of the essential requirements to start and maintain a successful transplant programme:
 - Qualifications and approved particle experience.
 - Continuous monitoring of the training

Auditing



The number of transplants

The number of transplantations declined, and why

Outcome

- 30-day surgical mortality
- Graft survival, 1 and 5 years
- Rejections
- Surgical complications
- Infection rate (CMV, BK, other infections, etc.)
- Patient survival, 1 and 5 years

Transplant Coordinators



Donor Transplant Coordinators

Collecting

Collecting clinical data on the potential donors

Reviewing

Reviewing all missing and outstanding investigations

Organising

Organising theatre lists for both donor and recipient including the PES

Arranging

Arranging follow-up of both donor and recipients

Recipient Transplant Coordinators

Collecting

Collecting clinical data on the potential recipient

Arranging

Arranging the required investigations

Performing

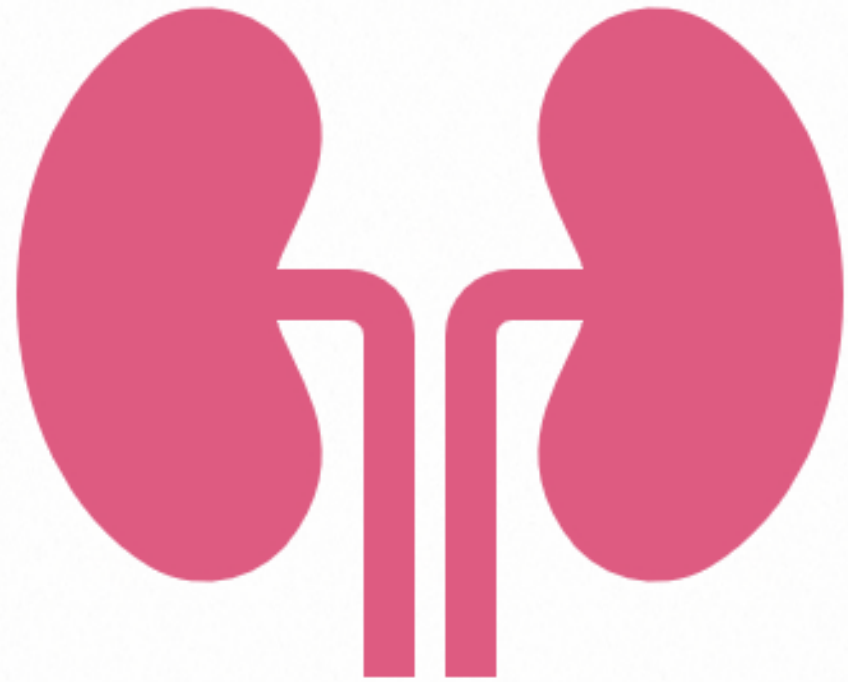
Performing post-transplantation follow up

Arranging

Arranging suspension of unfit patients

- They facilitate transplantation, subsequently increasing the numbers
- Improves the quality of service

<https://www.odt.nhs.uk/odt-structures-and-standards/organ-donation-retrieval-and-transplantation-teams/role-of-transplant-recipient-co-ordinator/>



Licensing

Name _____

Signature _____

Date _____





Hospitals

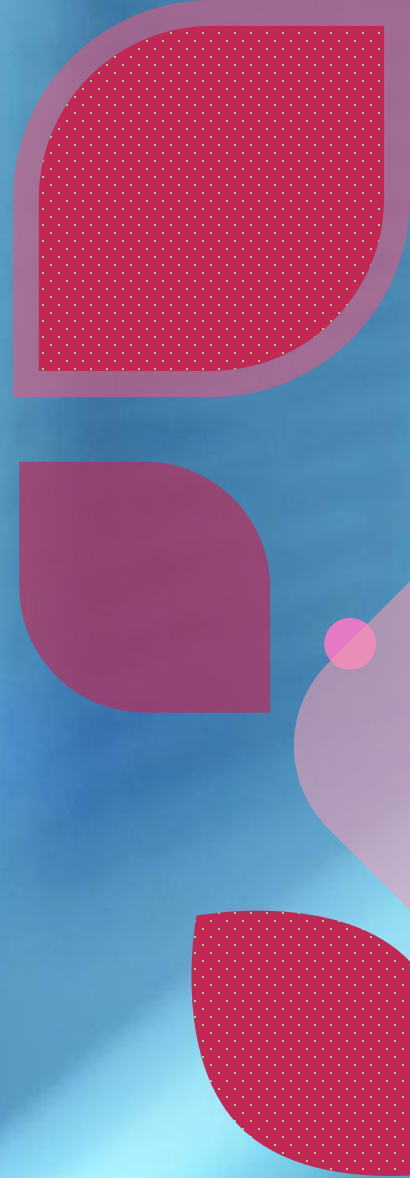


Surgical and Medical Staff



Programme Directors

Database





You can not perform safely without an electronic data system



Essential for auditing



Needed for Research



Accurate



Easily accessible



Low cost



Save time



Security

Conclusion

Creating a System can help to streamline processes, improve quality, increase accountability, enhance decision-making, improve communication, increase adaptability, and ensure compliance, subsequently have an impact on the outcome of the living Donor Transplant Programme



An aerial photograph of a multi-lane highway bridge spanning across a body of water. The water is a deep teal color with visible ripples. The bridge has several lanes in each direction, with a few vehicles visible. On the right side of the image, there are several decorative red shapes: a large rounded square with a white dotted pattern, a solid red rounded square, a solid red rounded square, a solid red circle, and a large solid red shape at the bottom right corner.

Thank You