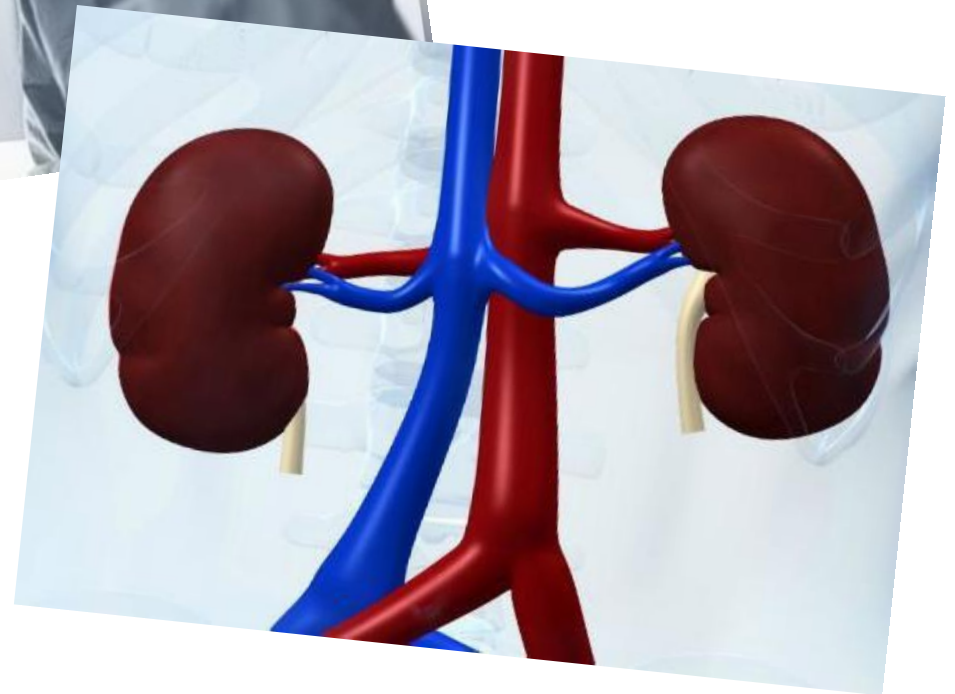


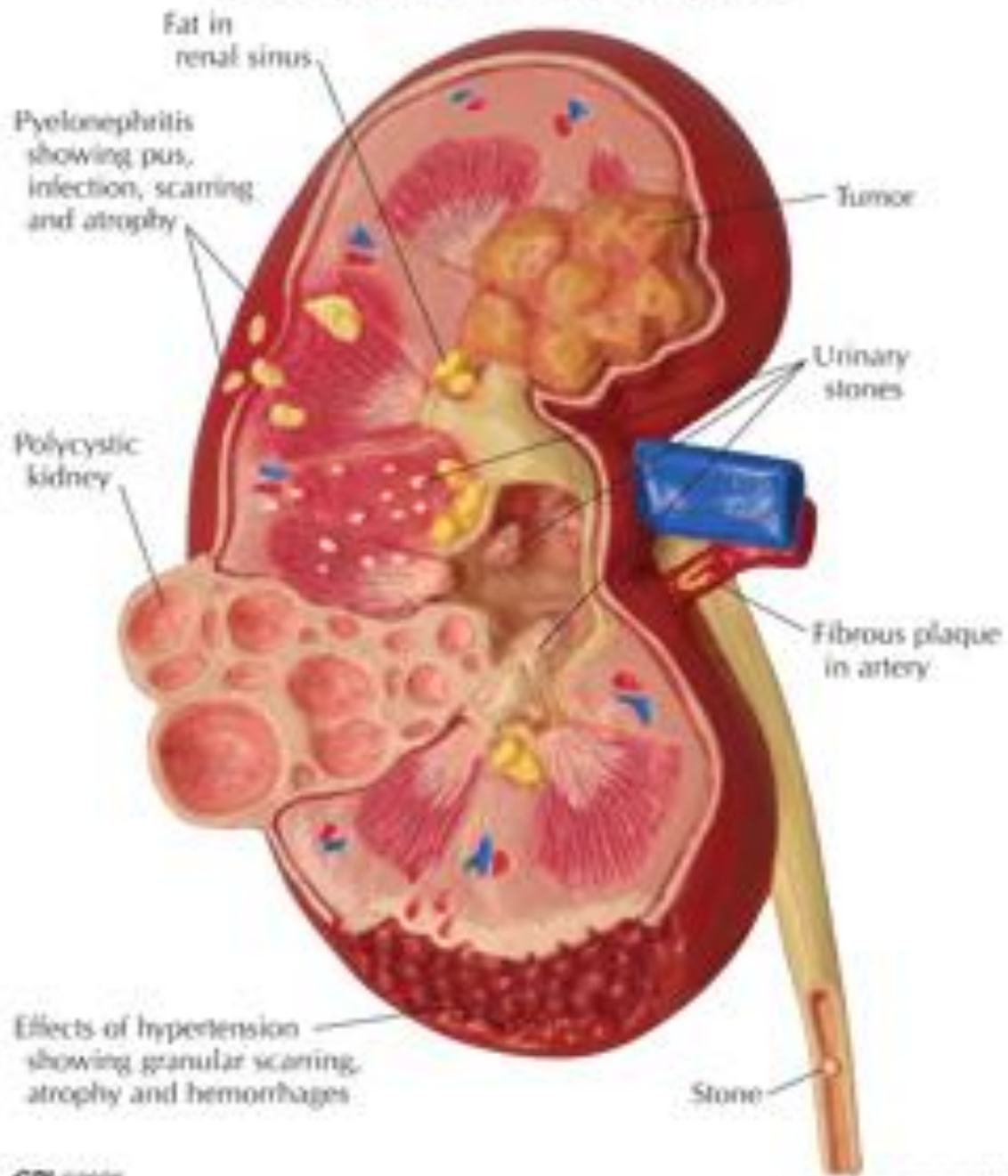
Transplantation of Kidney



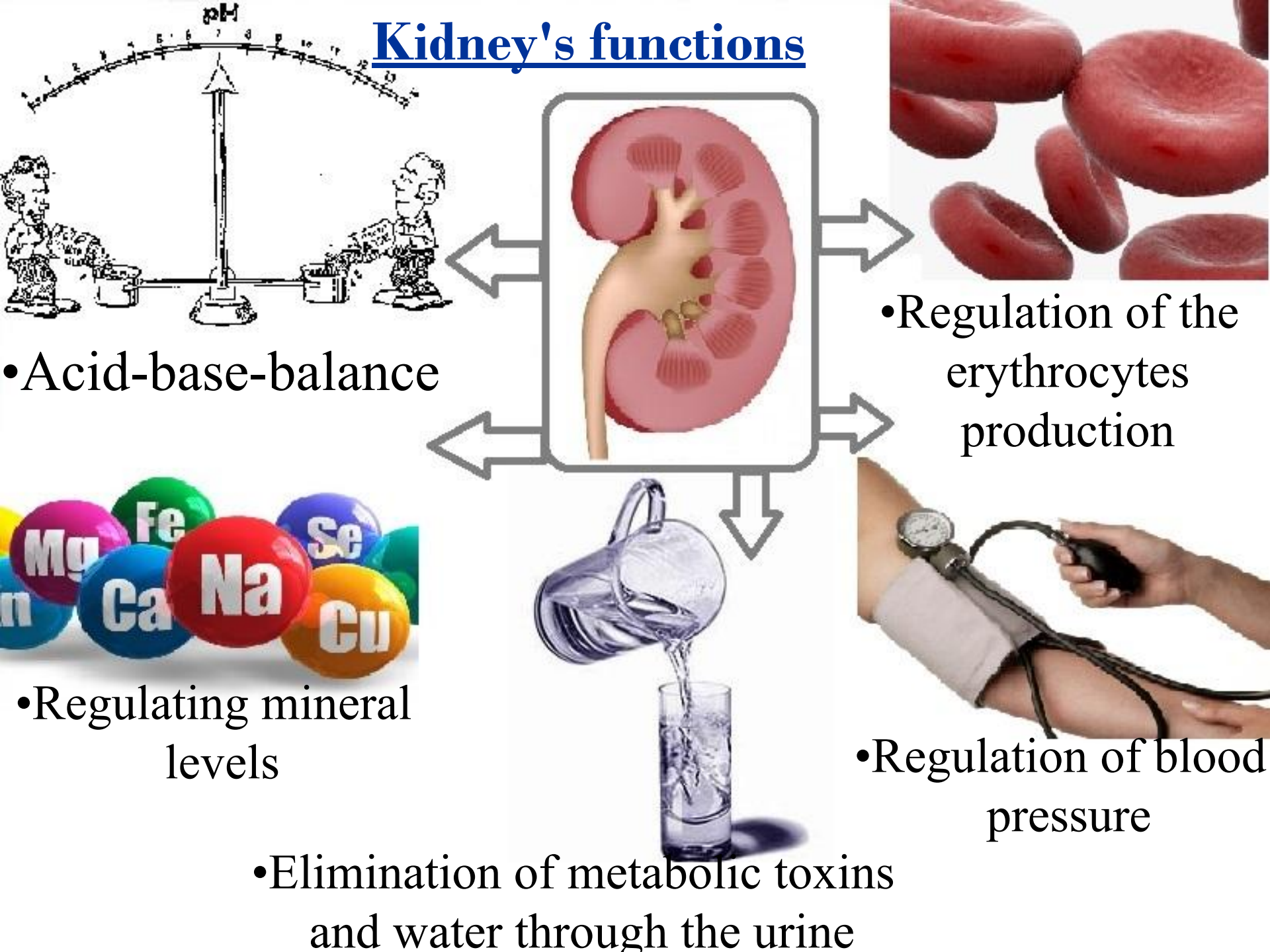
Reporters:

Roman Shteplyuk
Kateryna Tietienieva

KIDNEY DISEASES



Kidney's functions



• Acid-base-balance



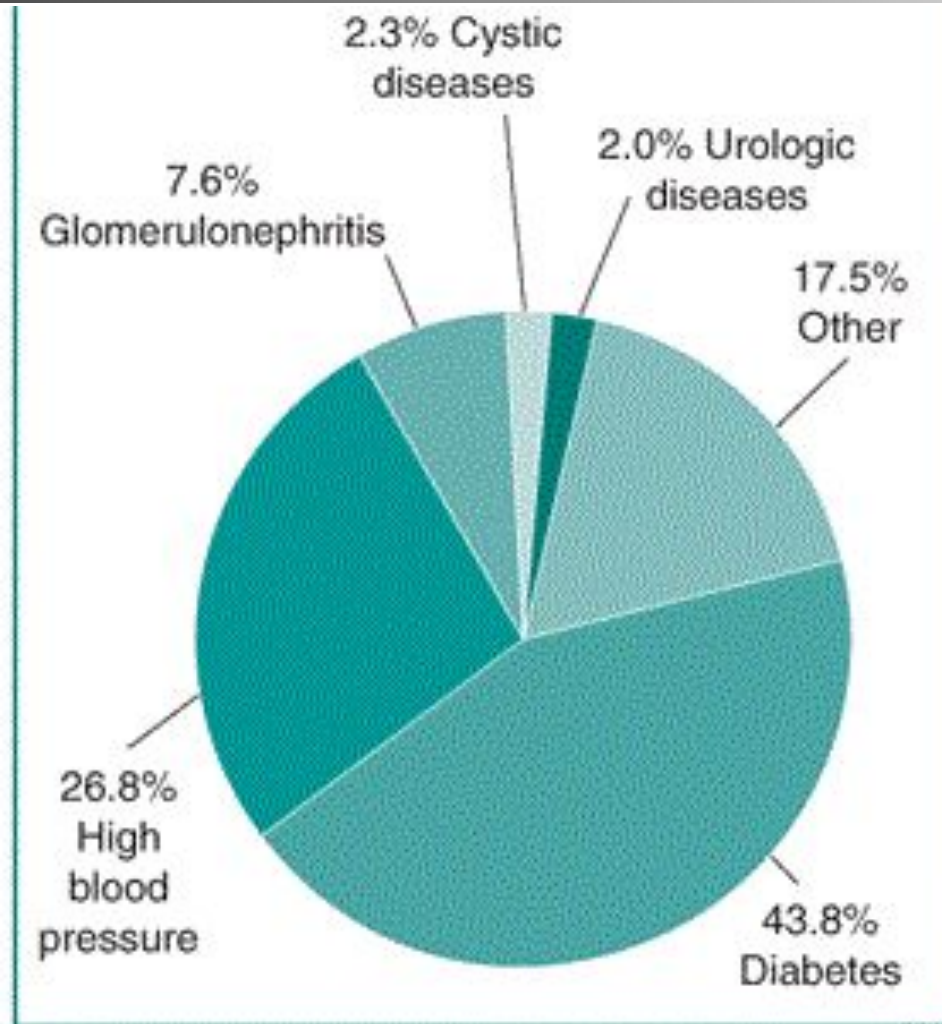
• Regulating mineral levels

• Elimination of metabolic toxins and water through the urine

• Regulation of the erythrocytes production

• Regulation of blood pressure

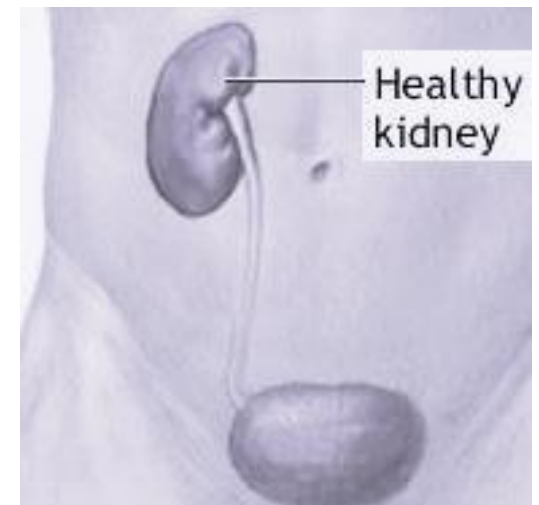
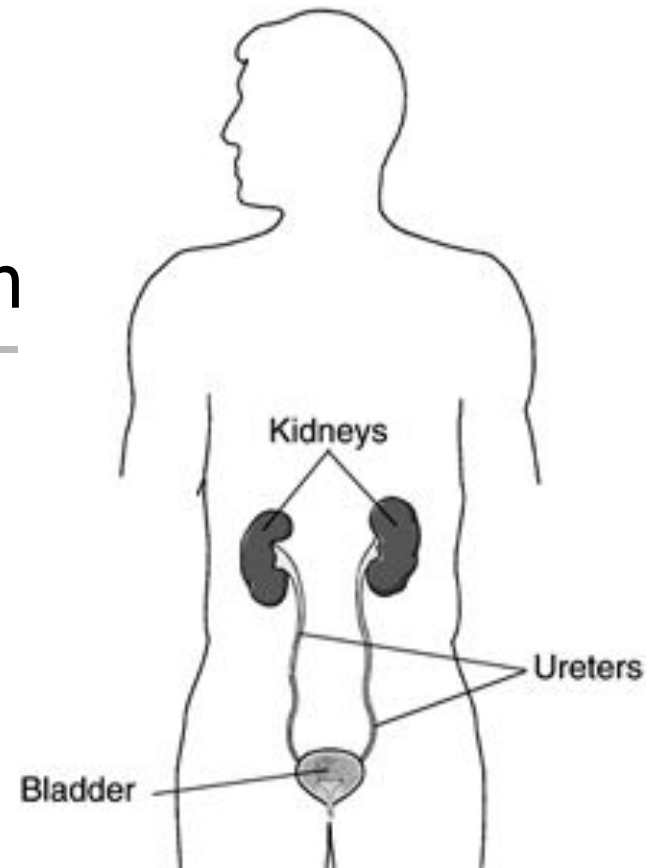
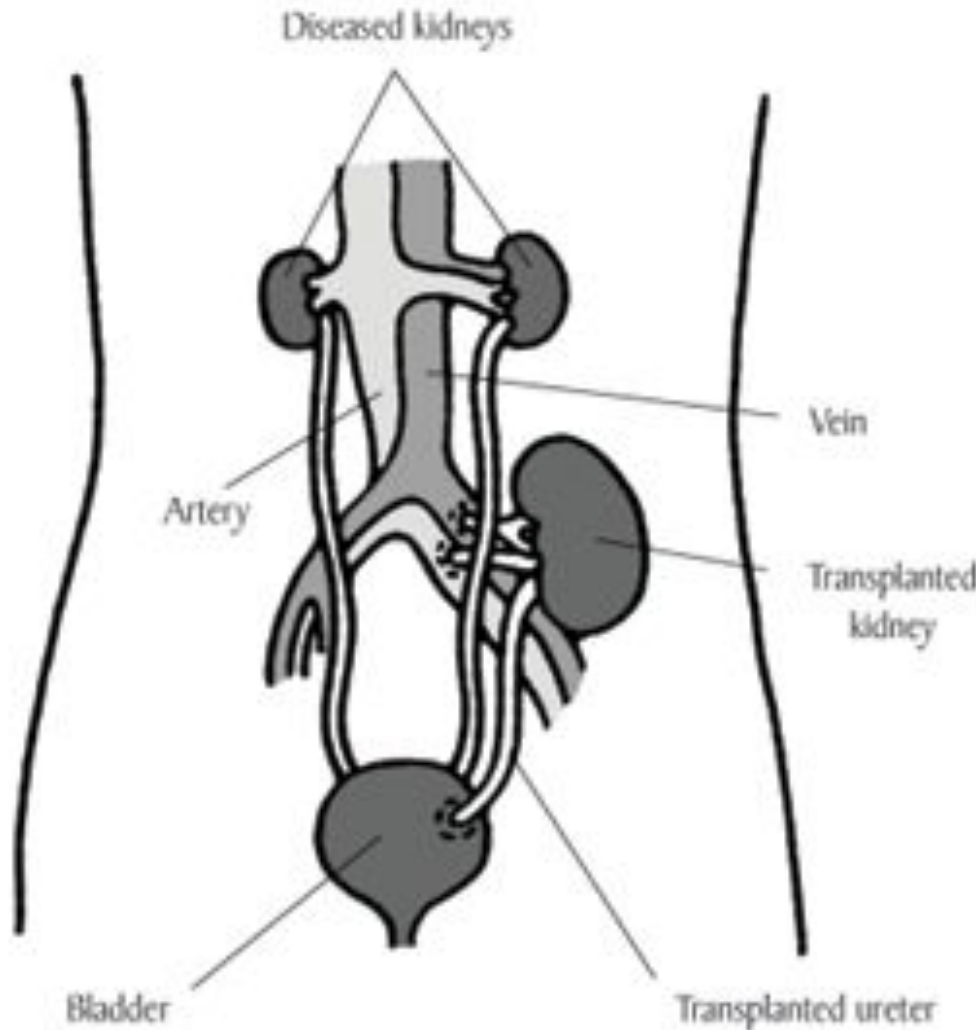
Precursors of terminal stage of renal failure



Damage of both kidneys

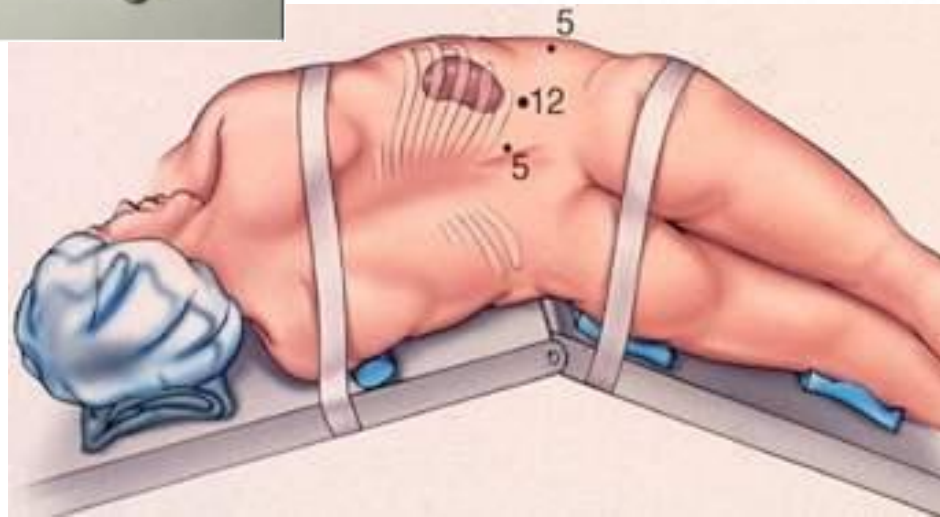
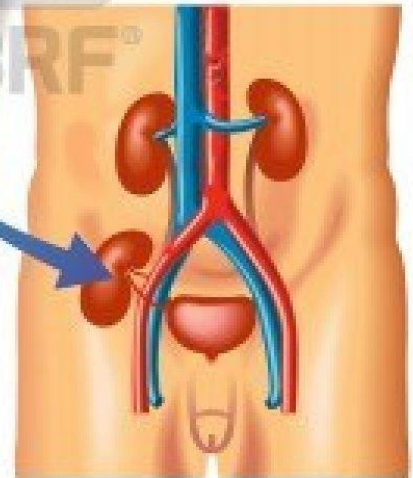
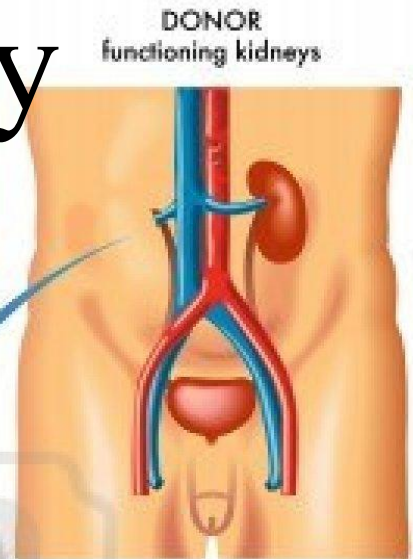
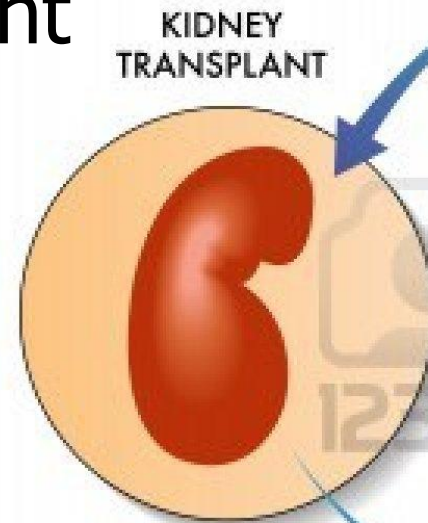
Haemodialysis

Transplantation



Transplantation of kidney

- *Ligasure* technique
- Position of the patient



PRECONDITION



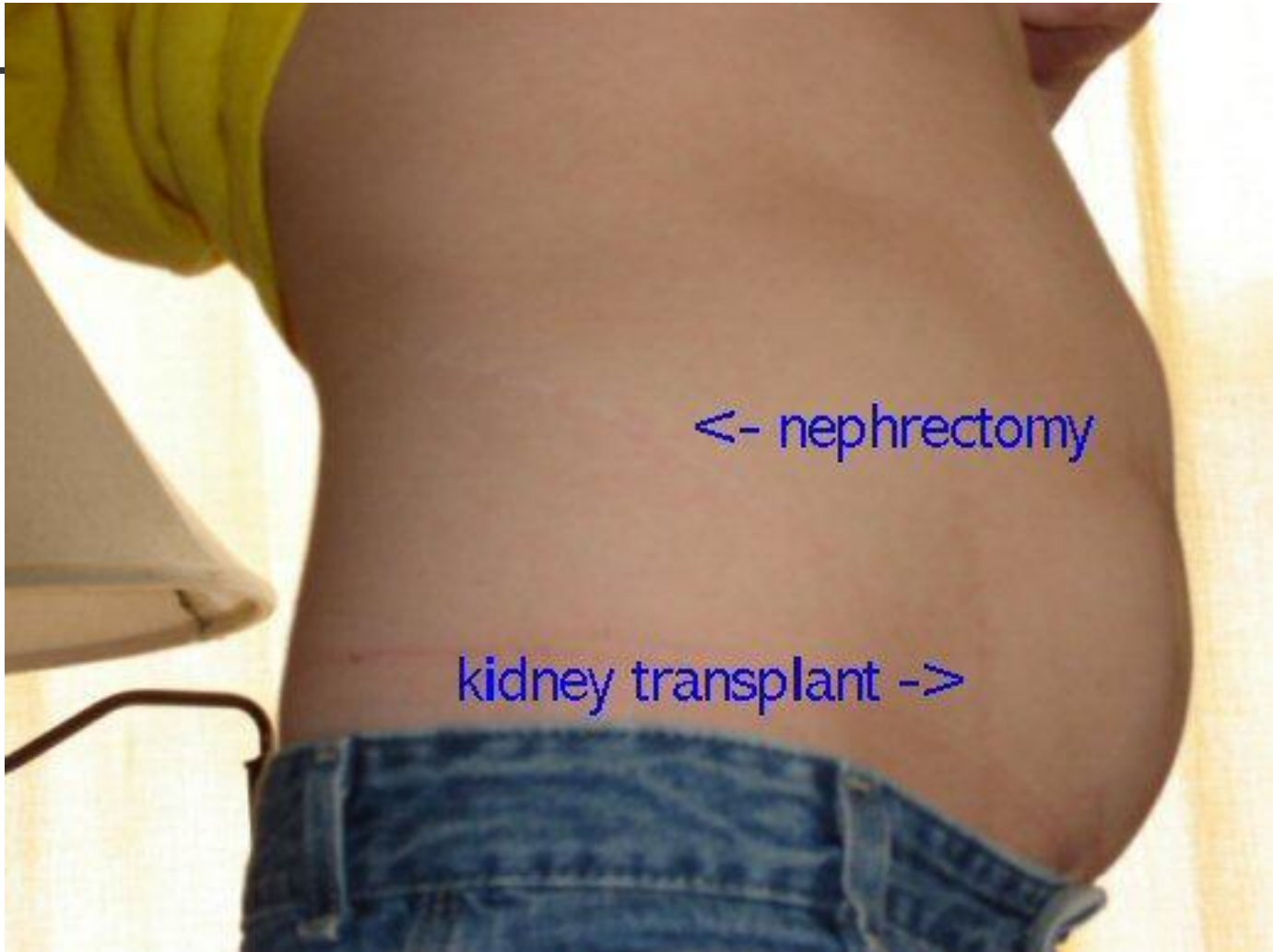
HEALTHY KIDNEY

COMPATIBLE TISSUES

IMMUNOSUPPRESSIVE DRUGS

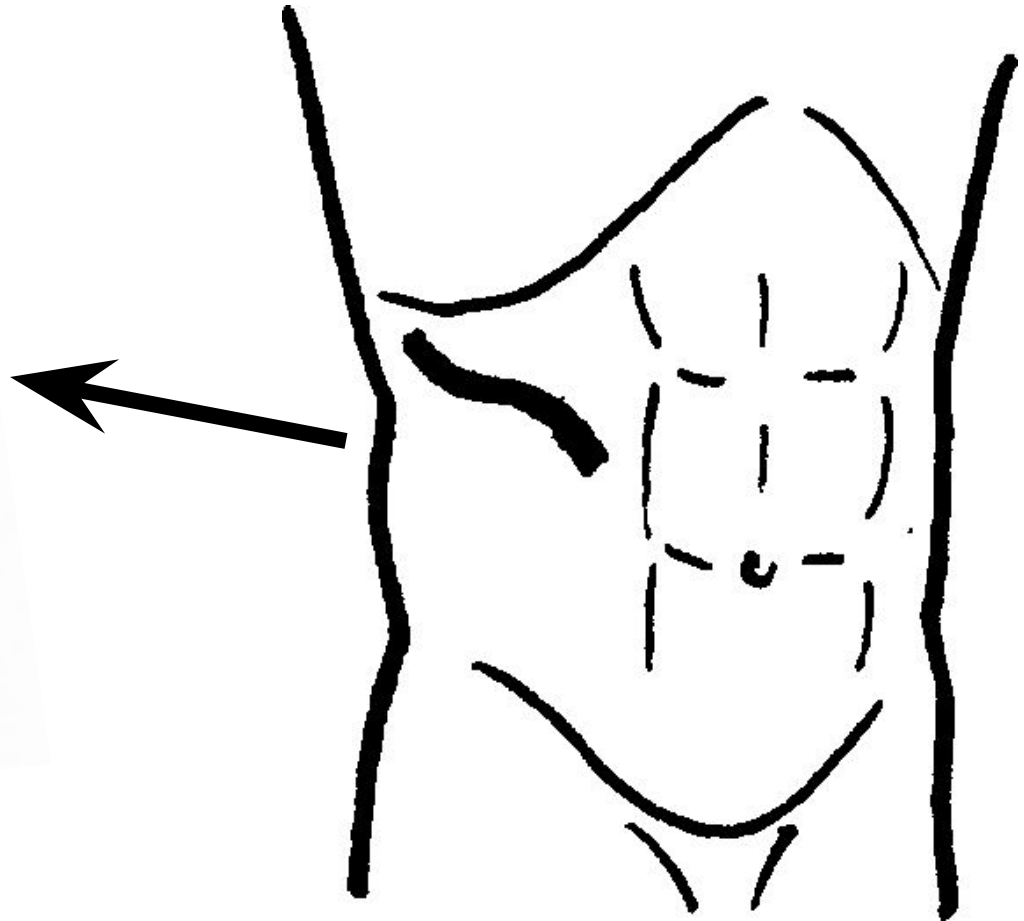
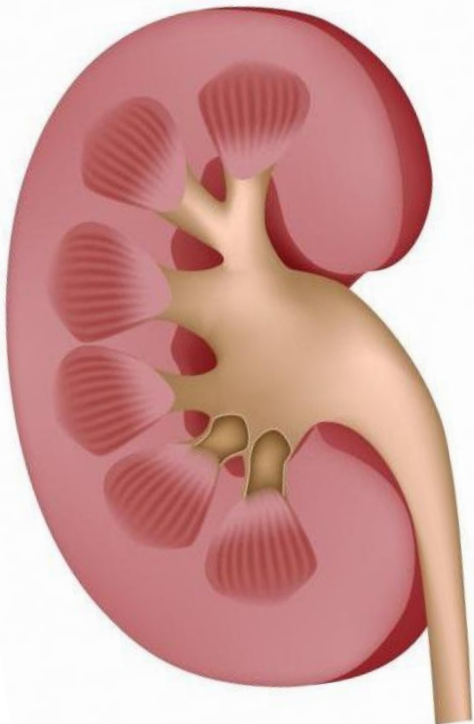


Special features of kidney's transplantation



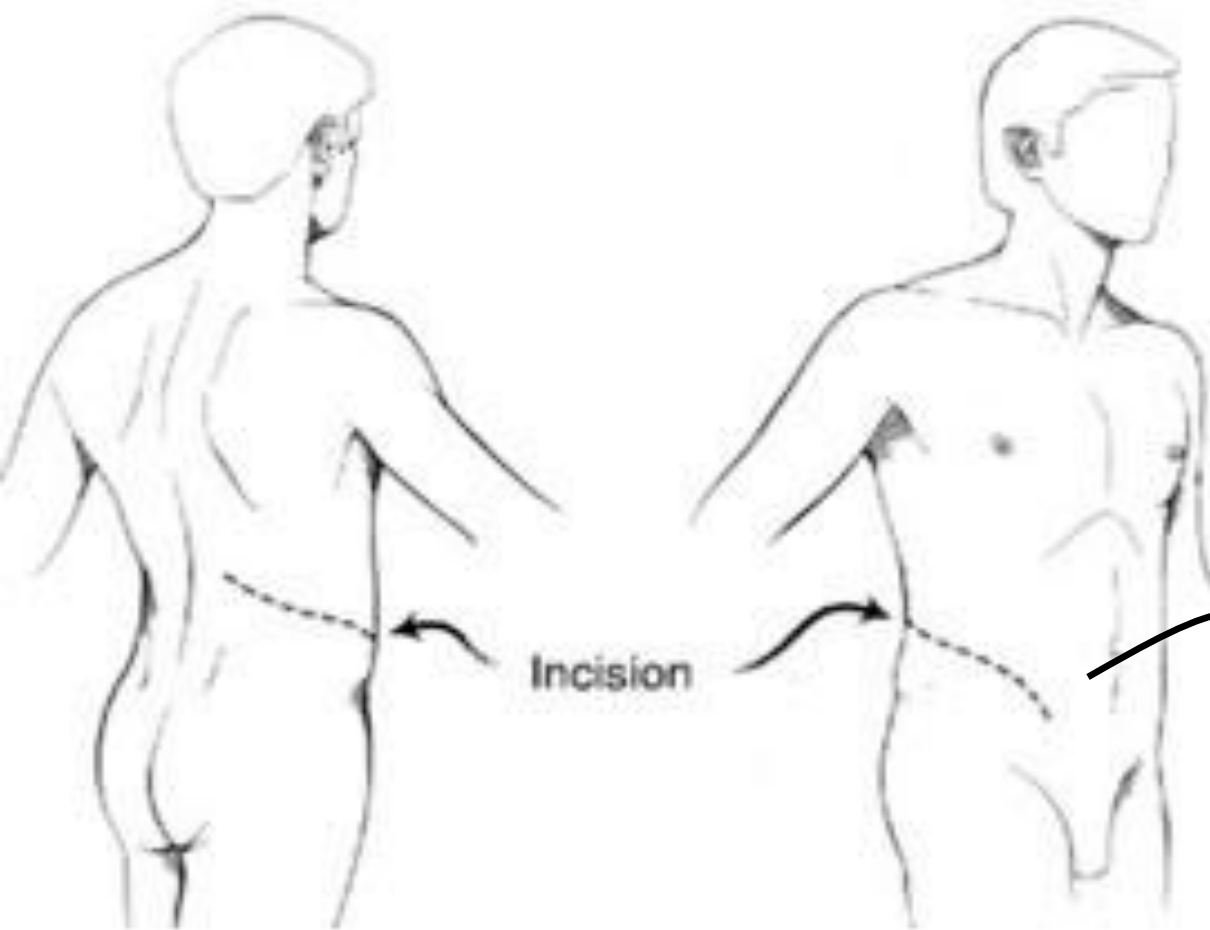
Approach by Fedorov

- *Performed for a donor*

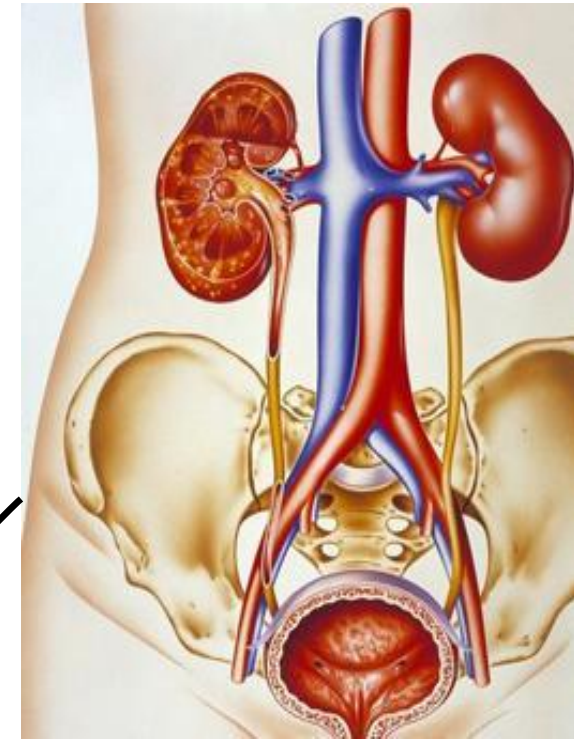


Approach by Bergman-Israel

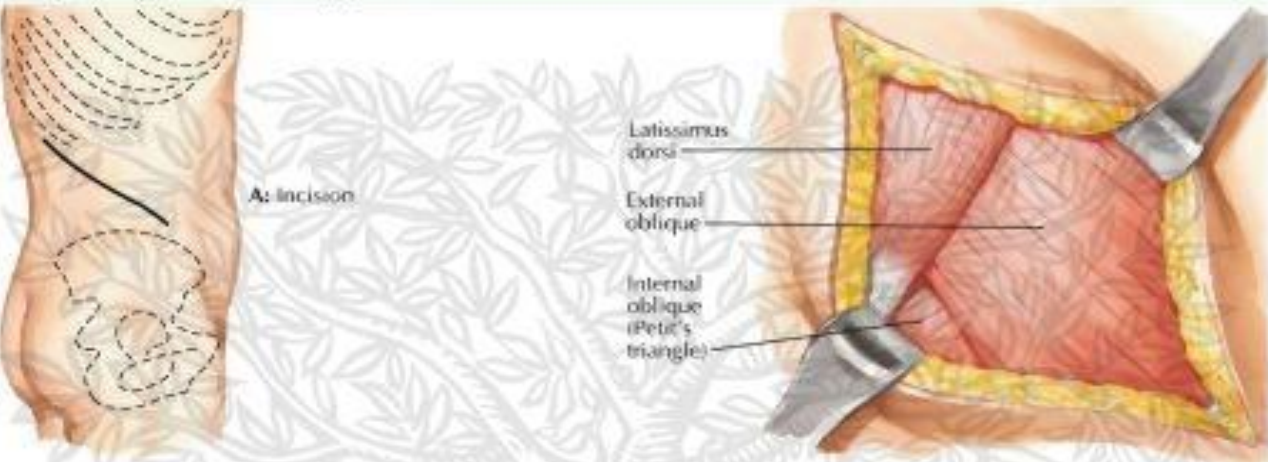
- *Performed for recipient*



Open Nephrectomy



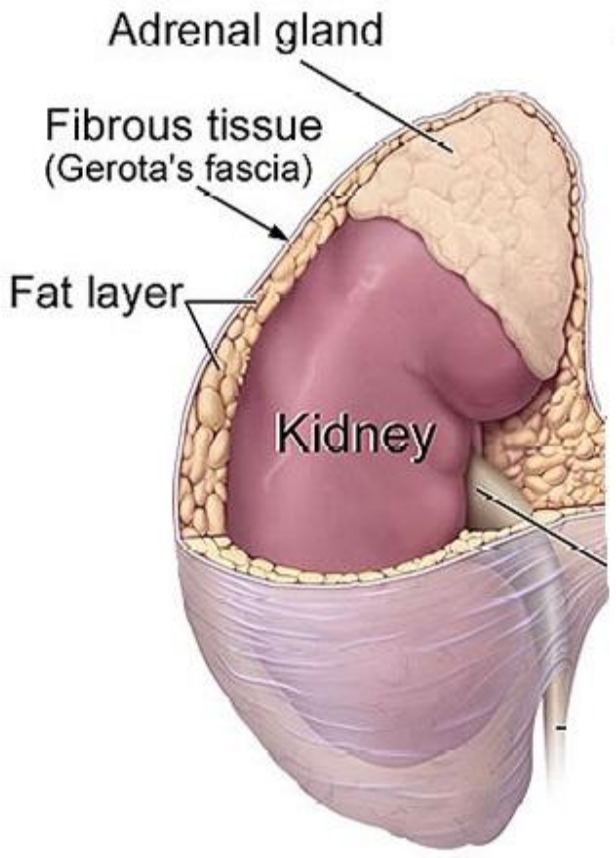
Incisions



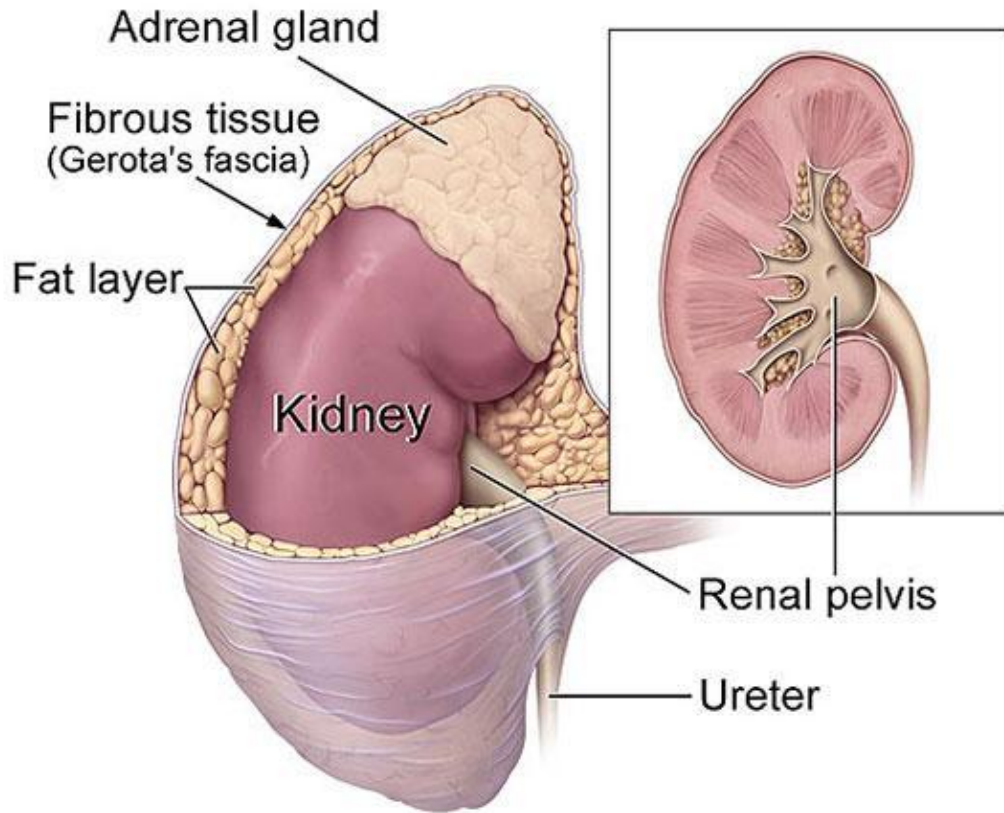
B: Skin and fat incised, exposing musculature



D: Deep layer of lumbodorsal fascia (tendon of origin of transversus abdominus muscle) incised



Separation

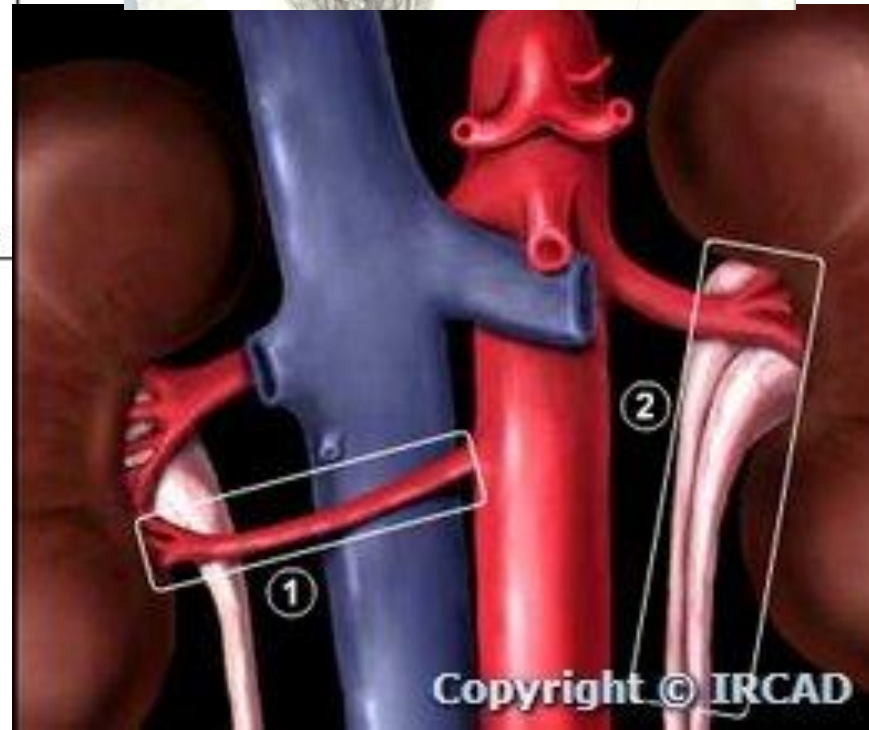


National Cancer Institute

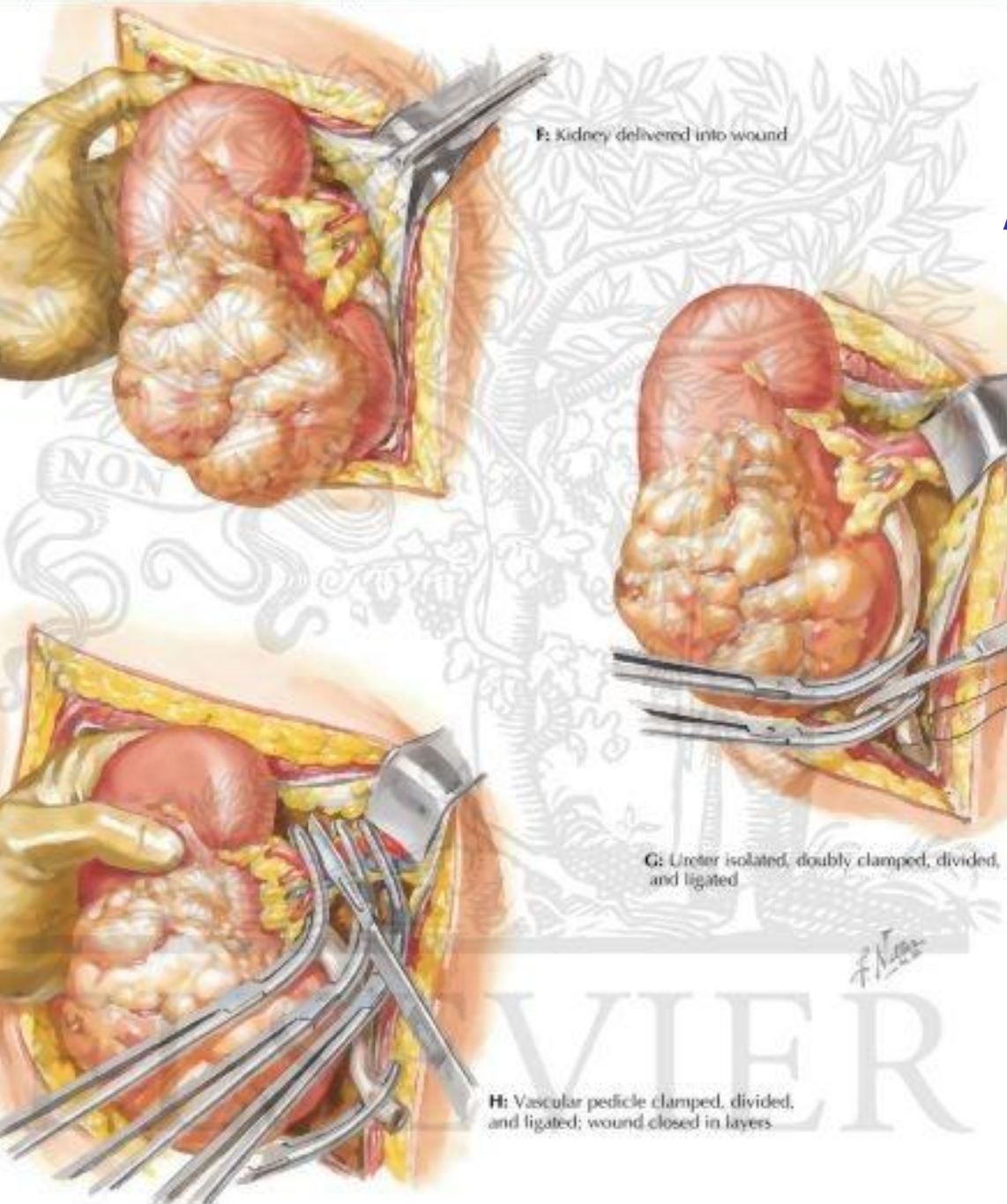


► Separation of kidney and hilum

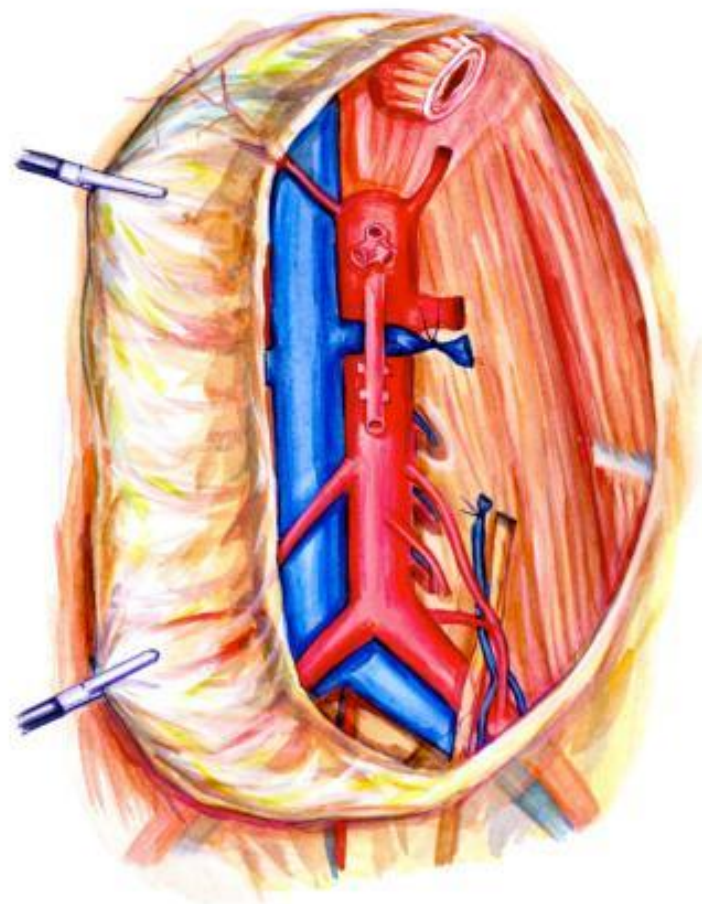
► Attention! Accessory renal arteries



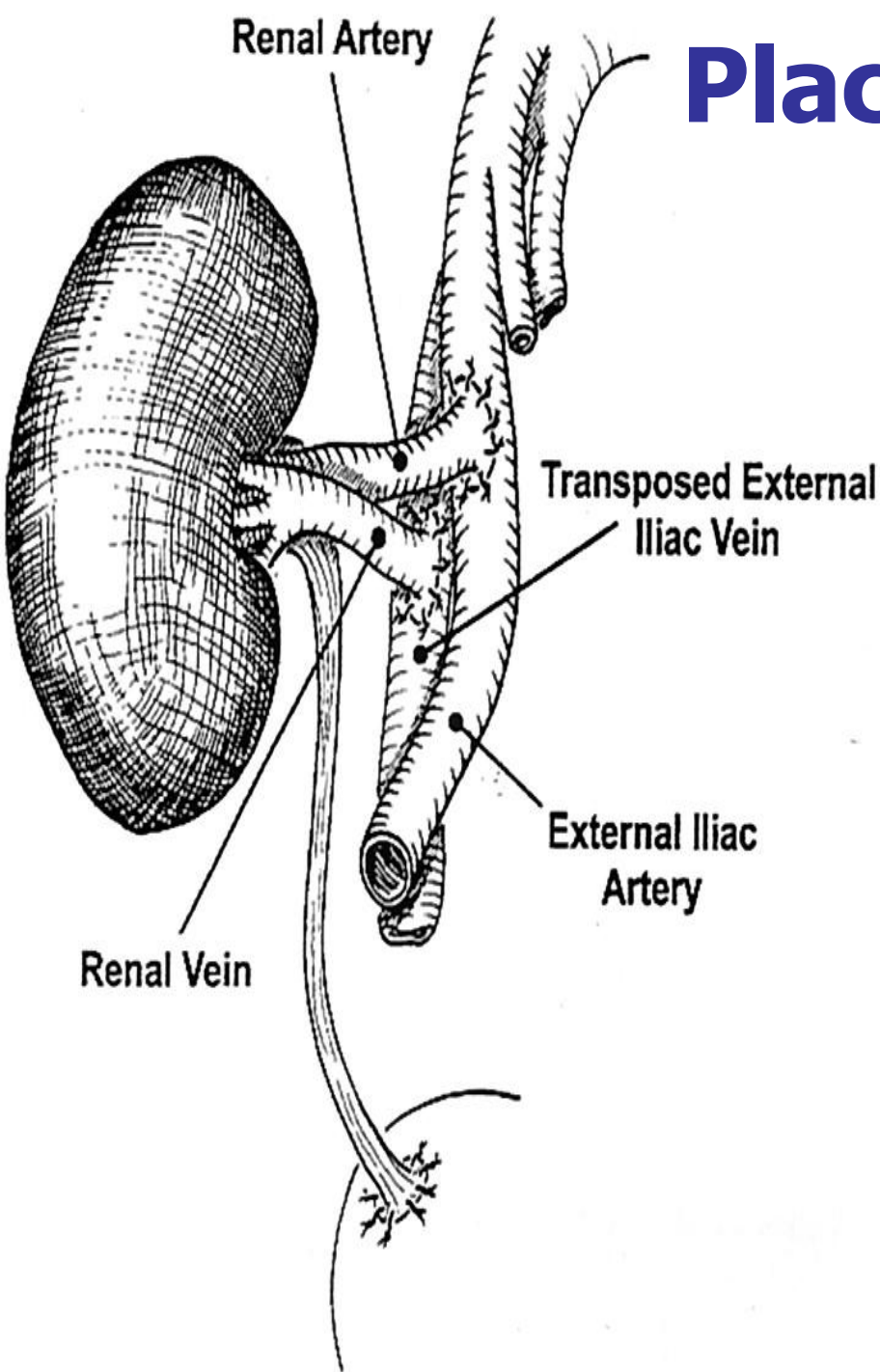
Copyright © IRCAD



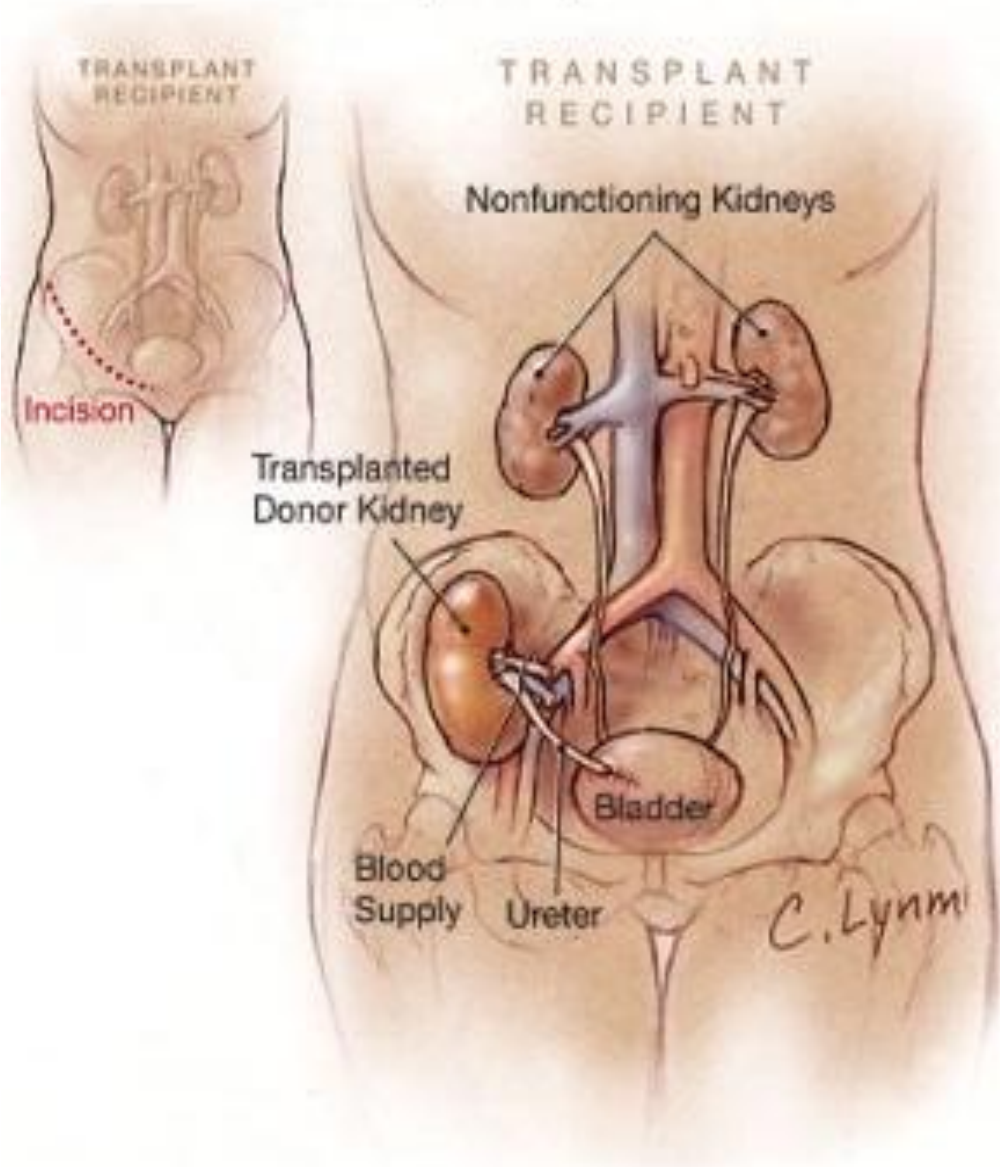
Elimination. Anastomoses.



Placement



Kidney Transplantation Procedure



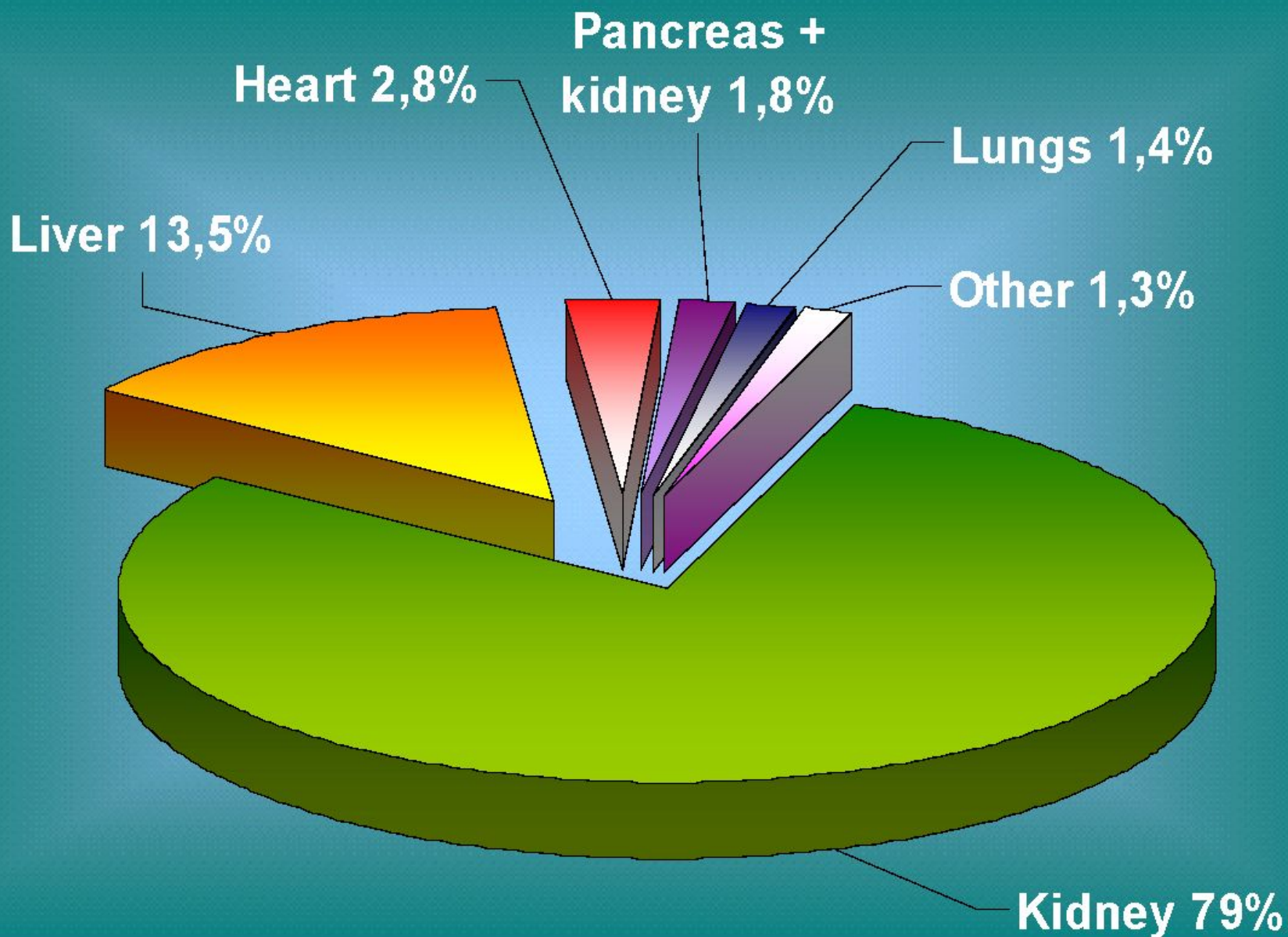
Suturing

1. Fascia/2. Muscle fibers/3. Skin.



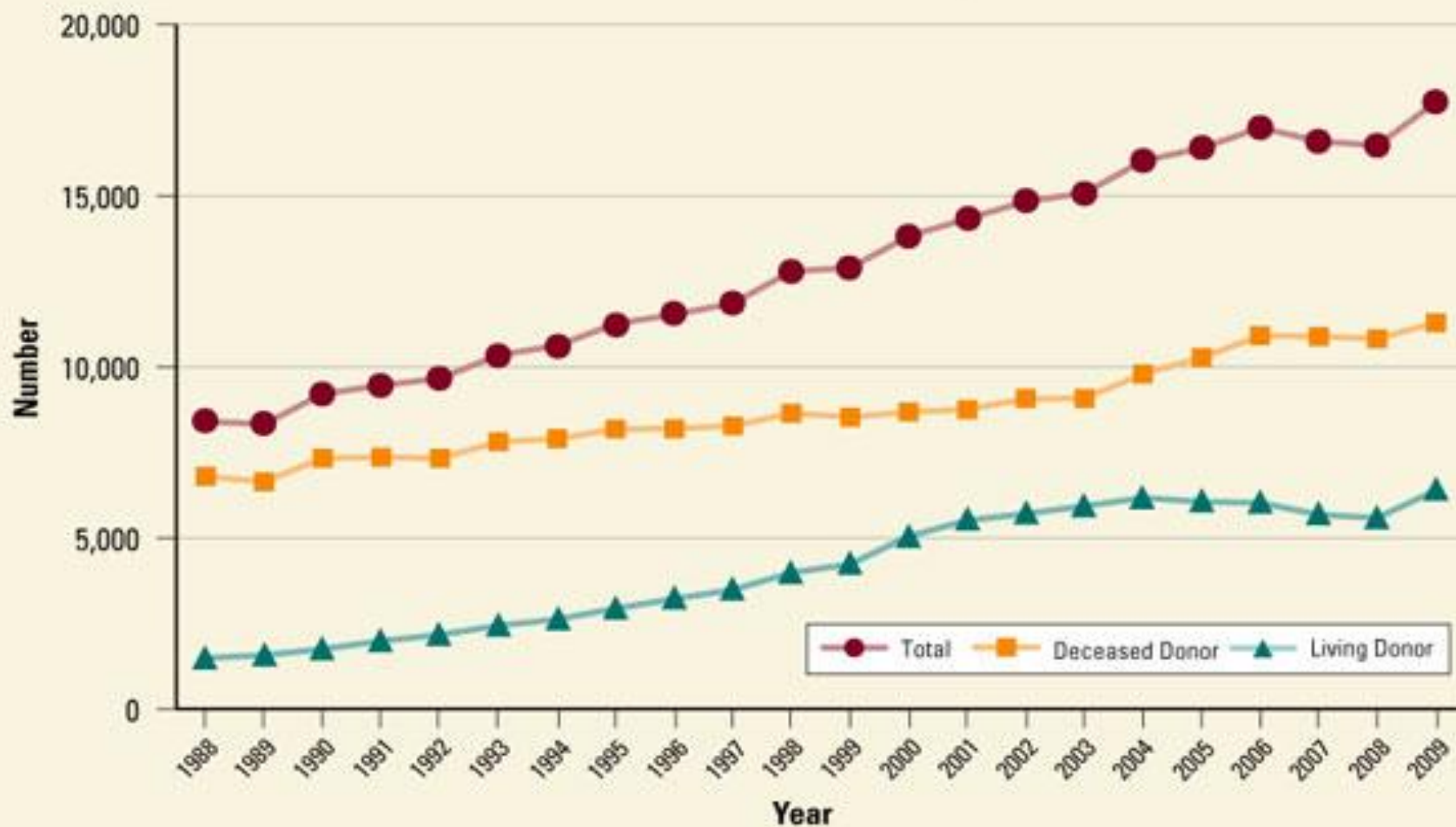
08.05.2005

Diagram of the most demanded organs

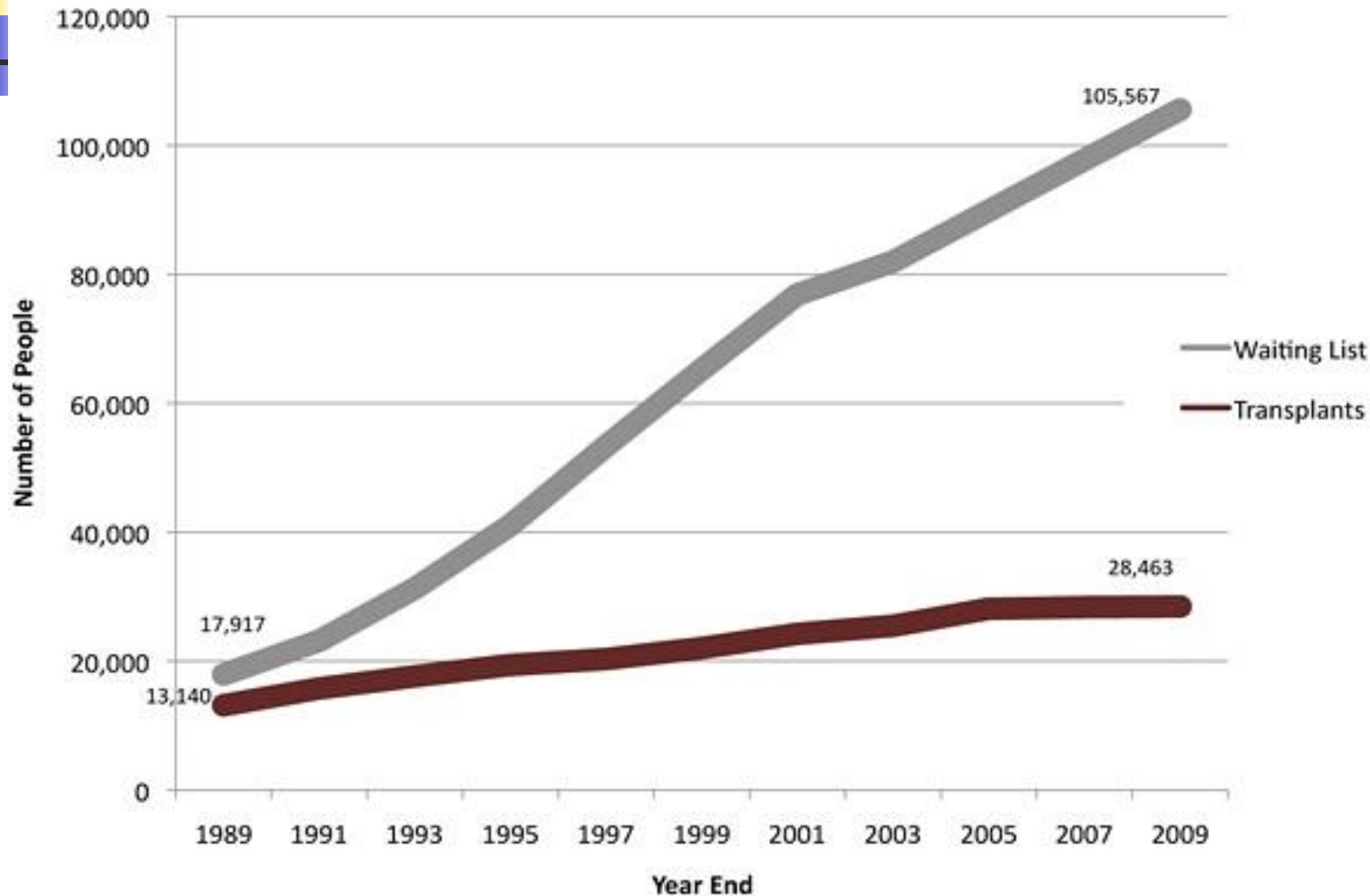


Statistics/USA

Annual Number of Kidney Transplants



Statistics/general amount of transplantations, waiting list/USA





Challenges in the branch of transplantology/Ukraine

- **Demand exceeds proposition.** 2500 persons wait for new kidney annually.
- **Legislation prohibits** the ability of taking organ from deceased donor.
- **Presumption of disagreement.**
- Society: 20 % of Ukrainians are ready to give organ.
- Low confidence. Development of *transplantation tourism*.

Thank you for the attention!

