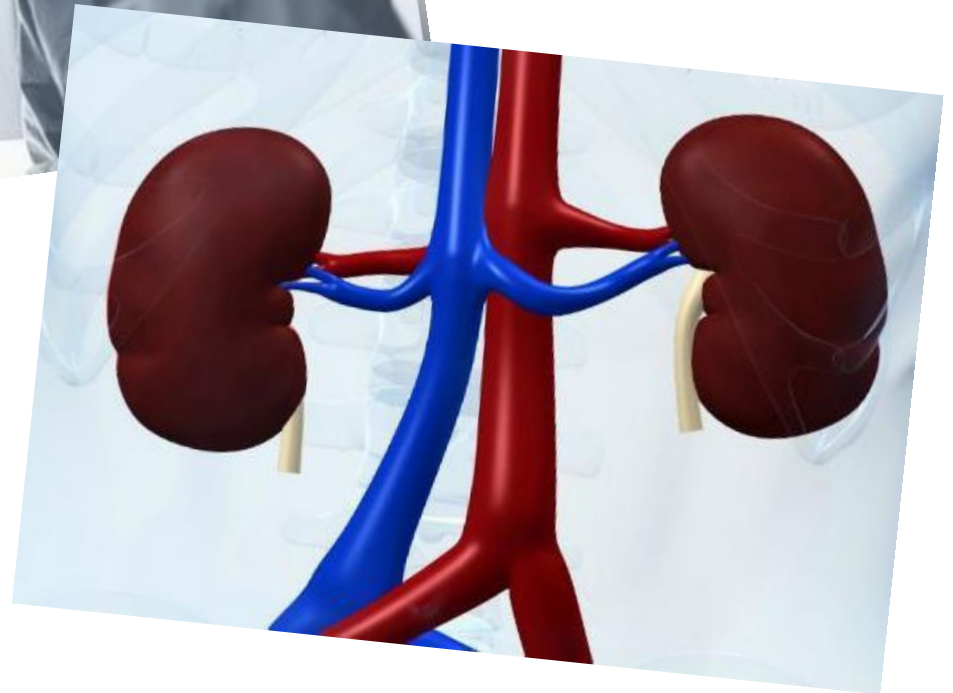


Transplantation of Kidney

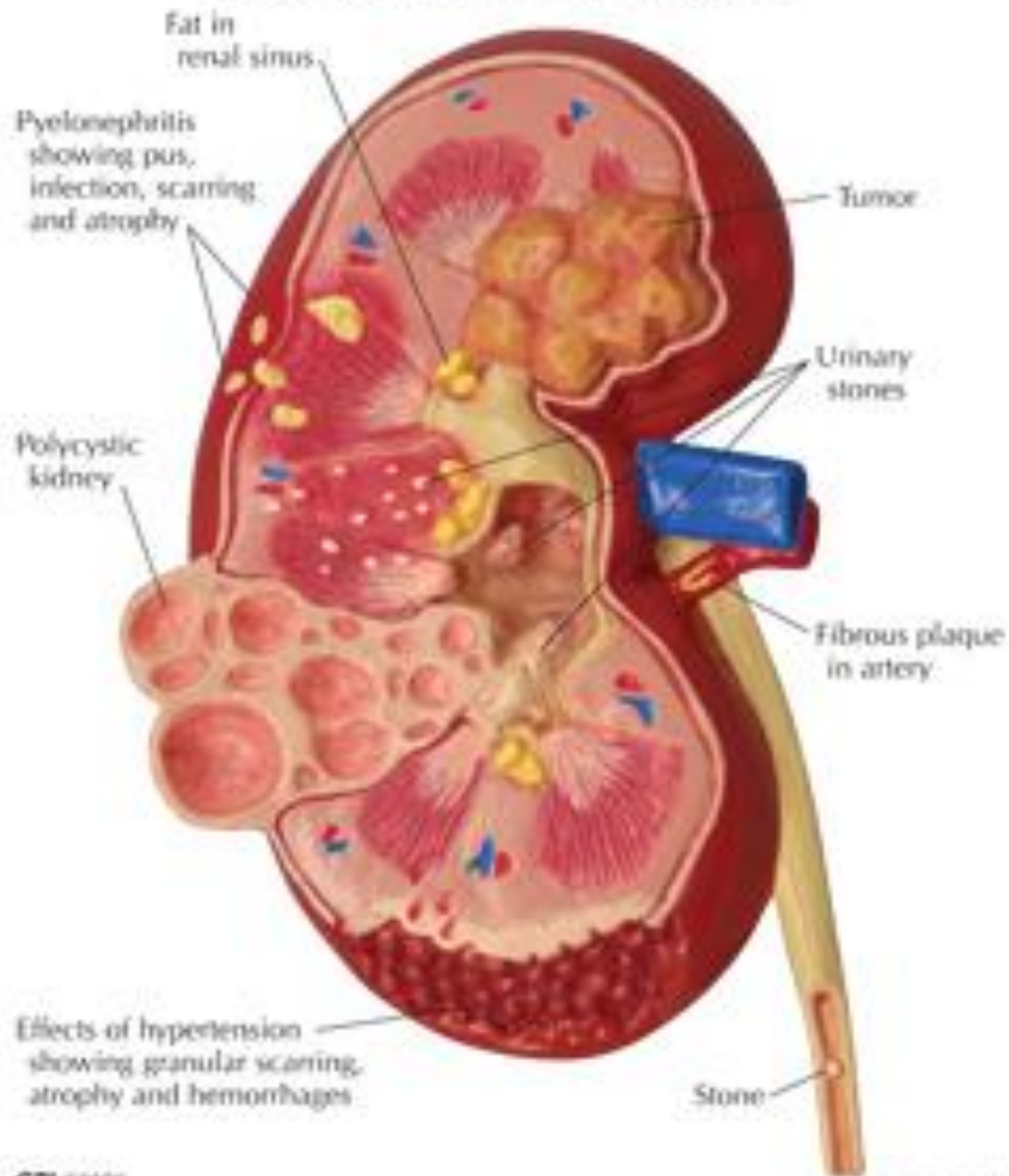


Reporters:

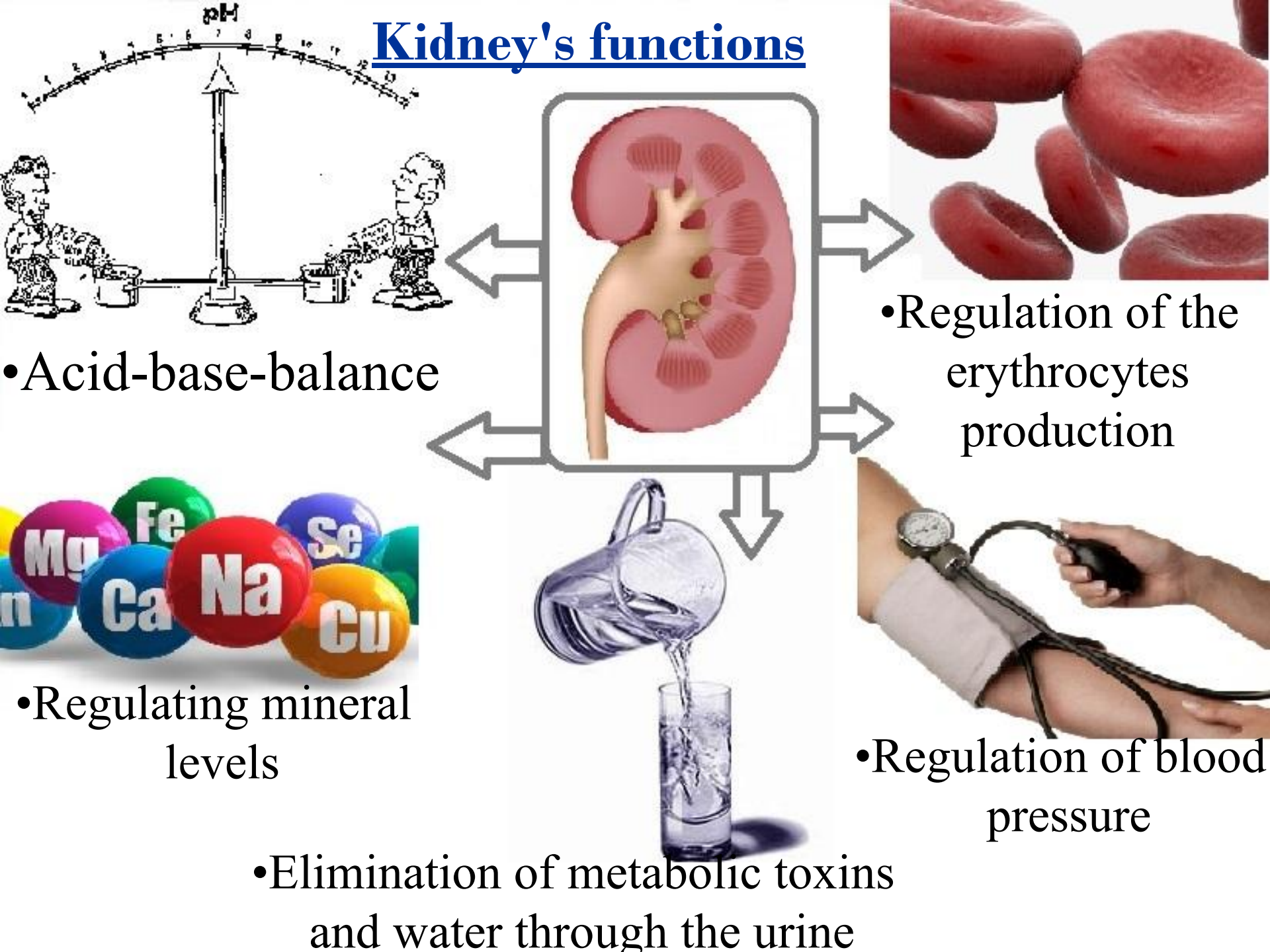
Roman Shteplyuk
Kateryna Tietienieva



KIDNEY DISEASES



Kidney's functions



• Acid-base-balance

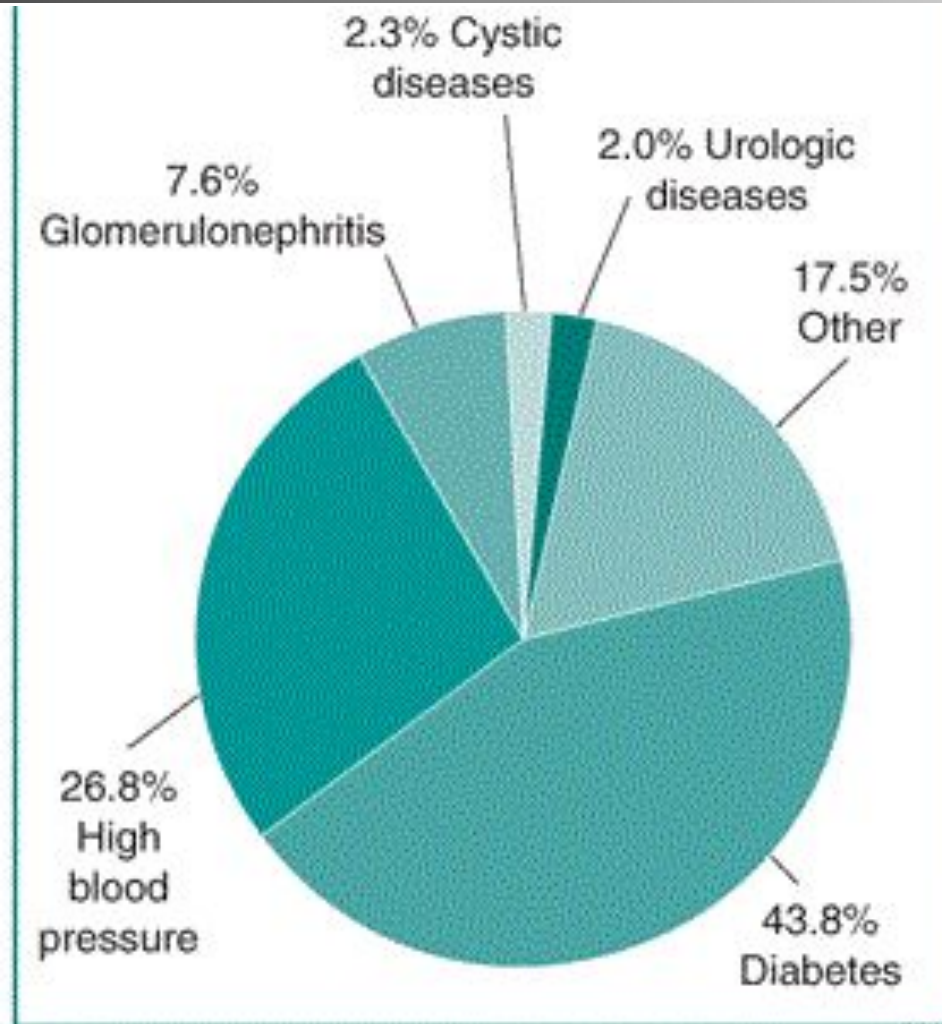
• Regulation of the erythrocytes production

• Regulating mineral levels

• Regulation of blood pressure

• Elimination of metabolic toxins and water through the urine

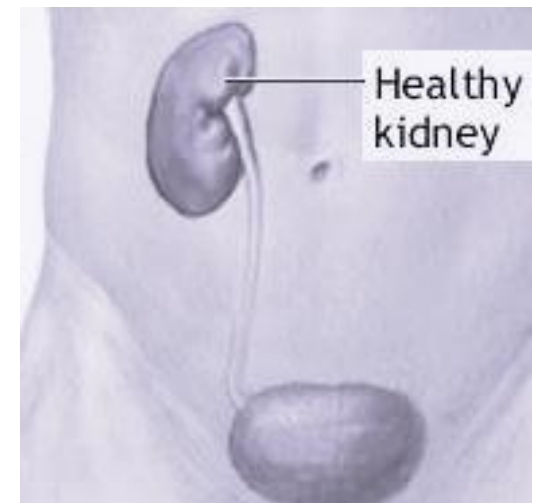
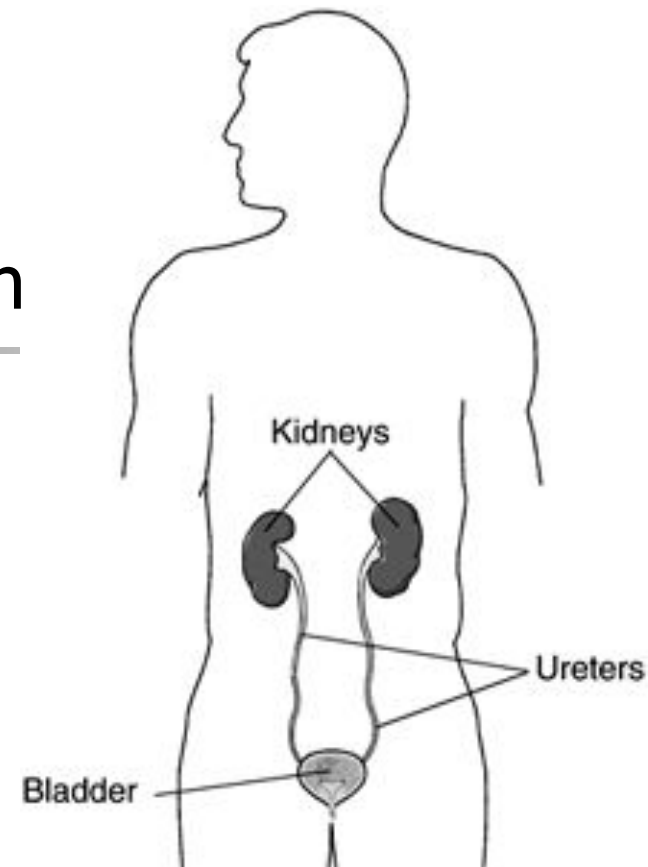
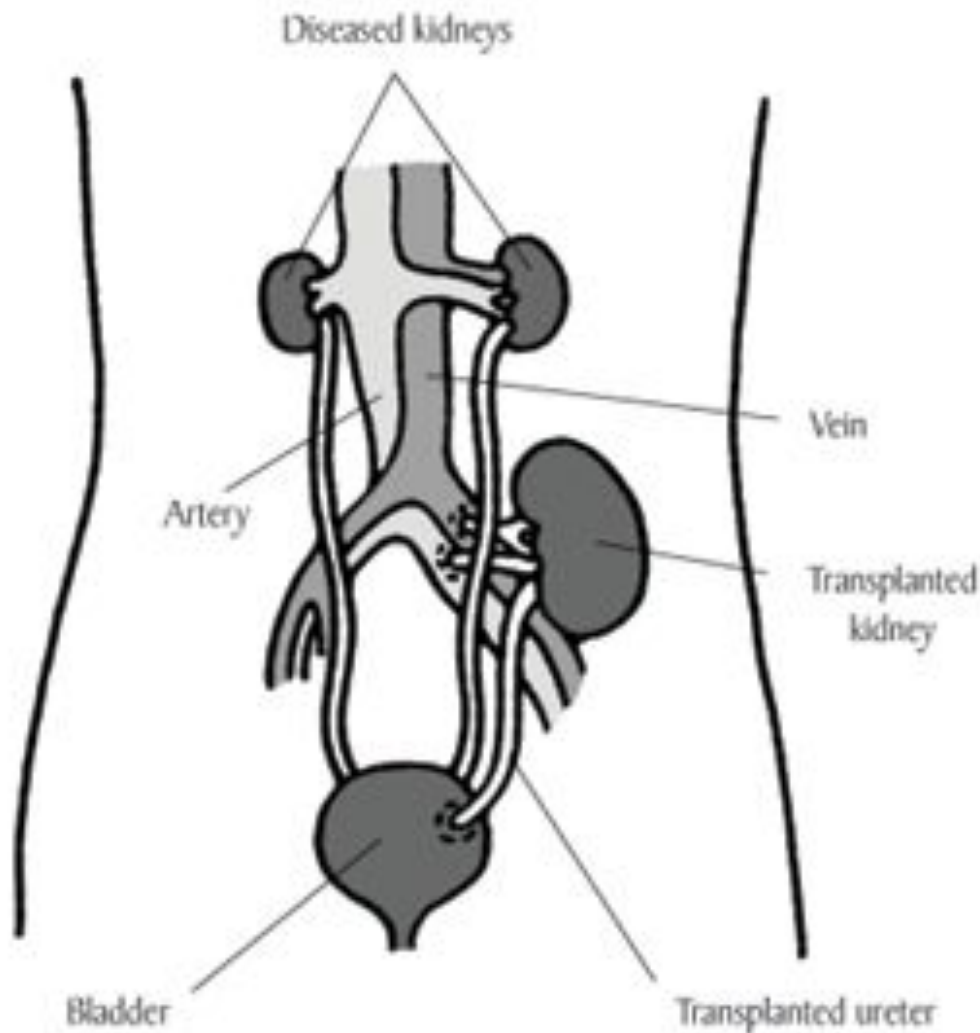
Precursors of terminal stage of renal failure



Damage of both kidneys

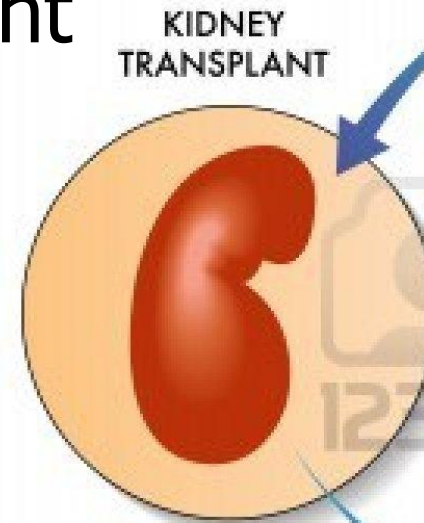
Haemodialysis

Transplantation

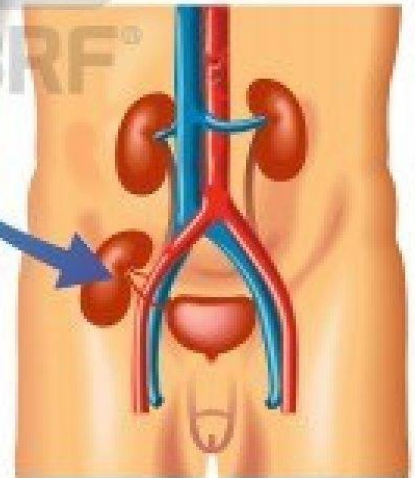
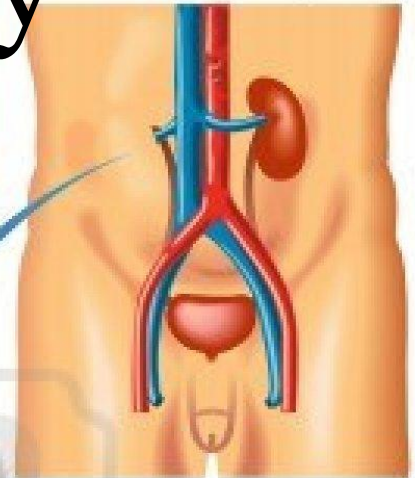


Transplantation of kidney

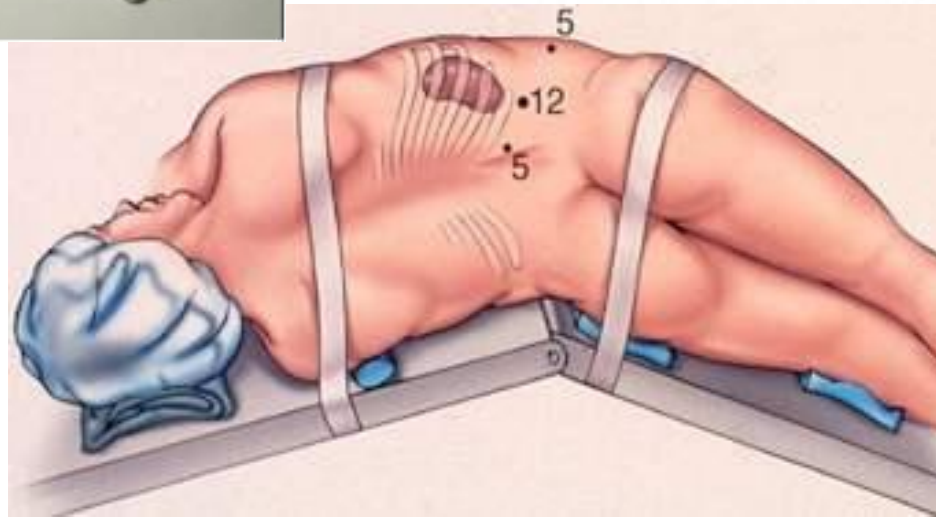
- *Ligasure* technique
- Position of the patient



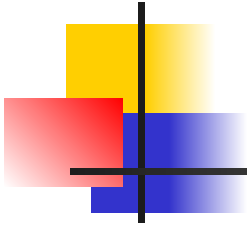
DONOR
functioning kidneys



RECEIVER
non-functioning kidneys



PRECONDITION



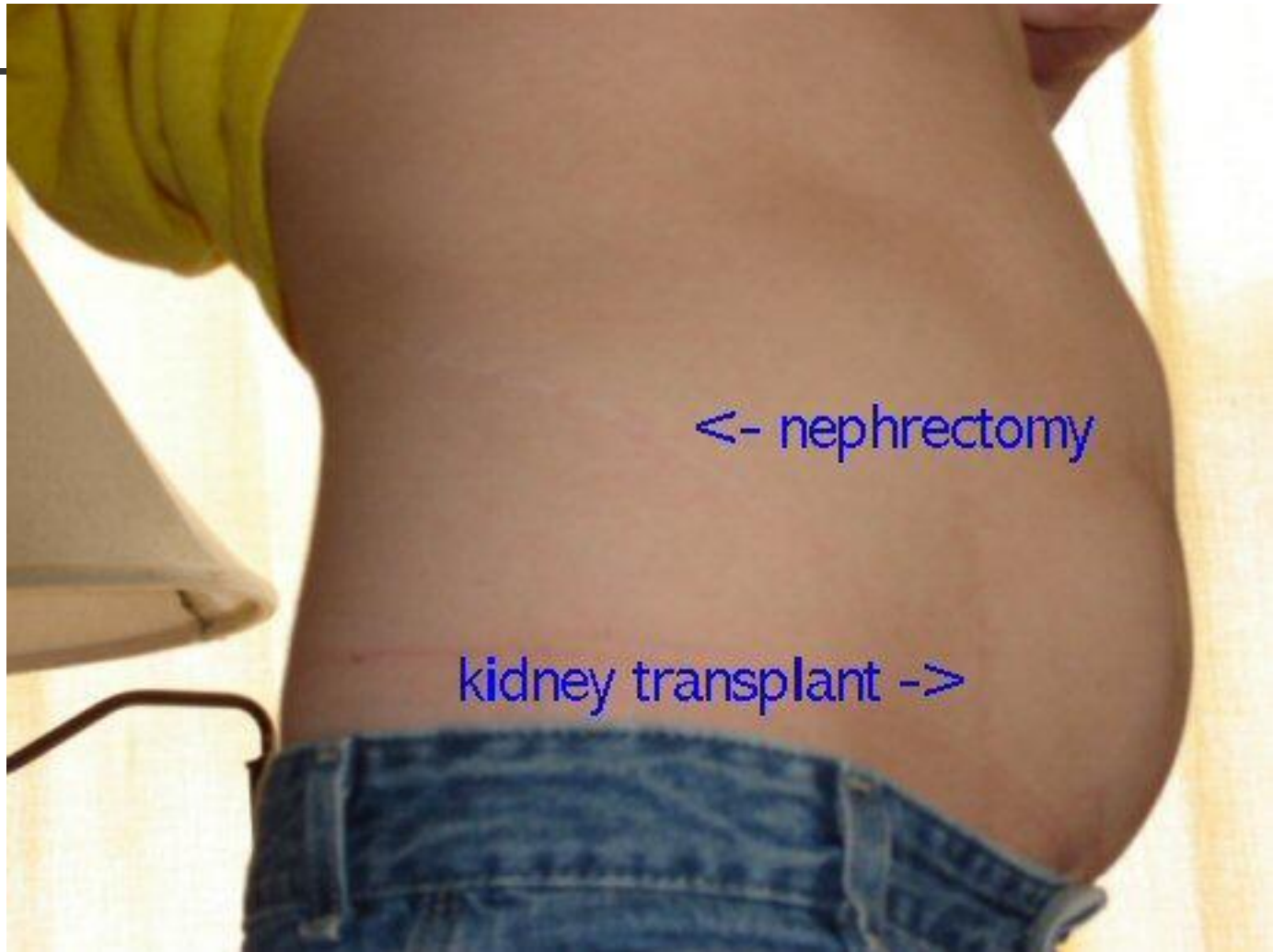
HEALTHY KIDNEY

COMPATIBLE TISSUES

IMMUNOSUPPRESSIVE DRUGS

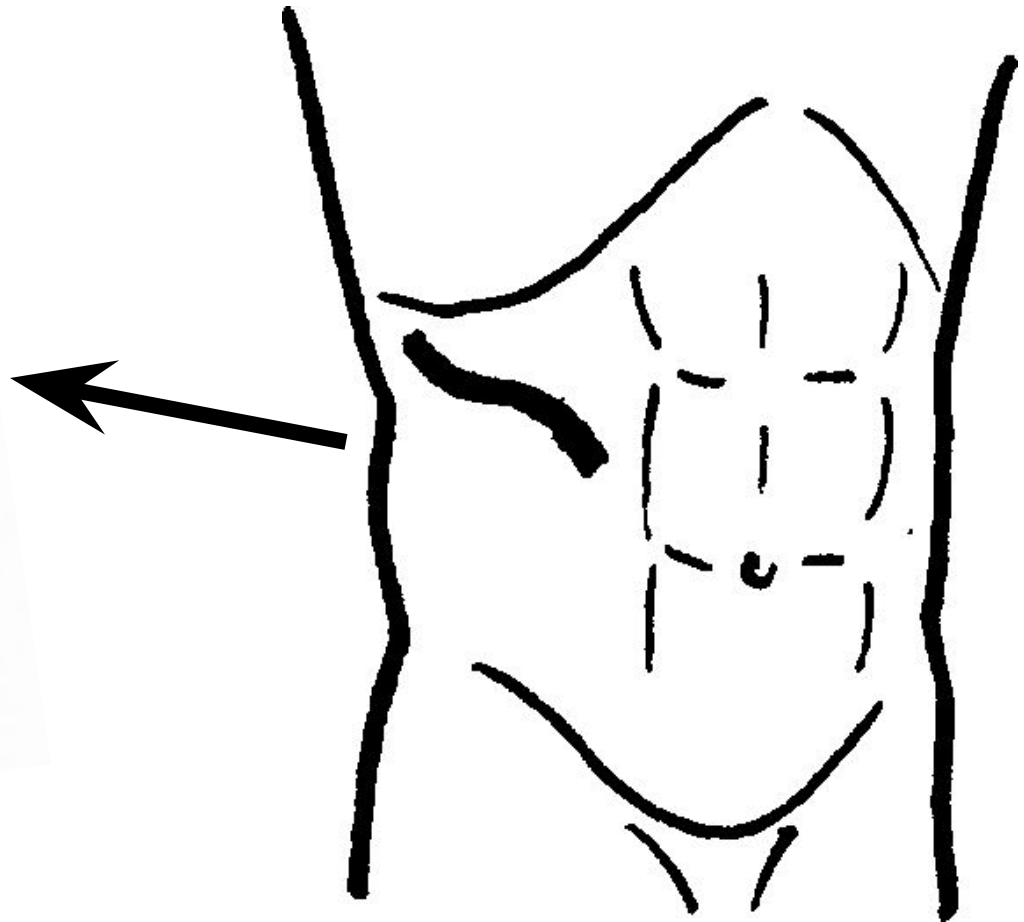
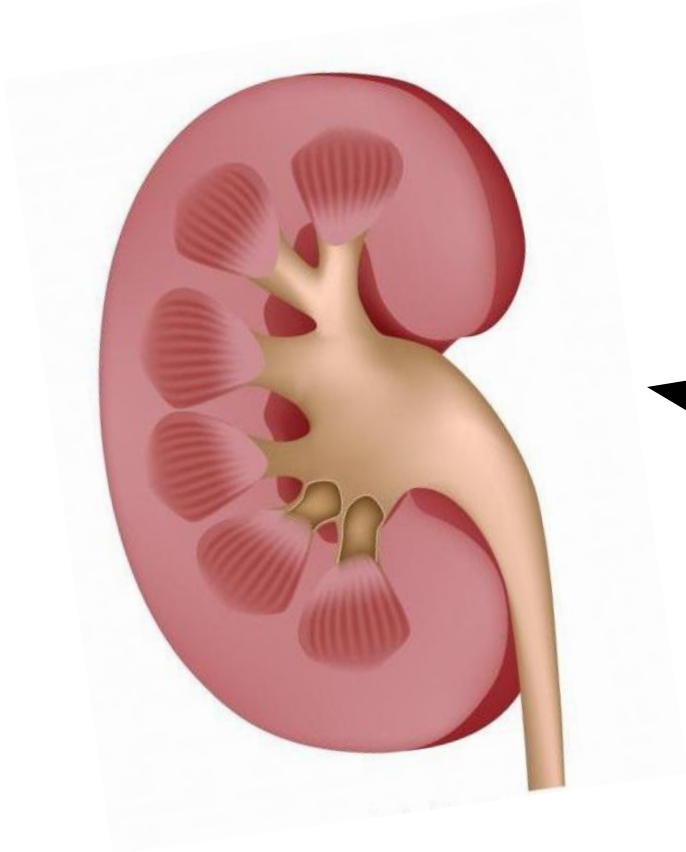


Special features of kidney's transplantation



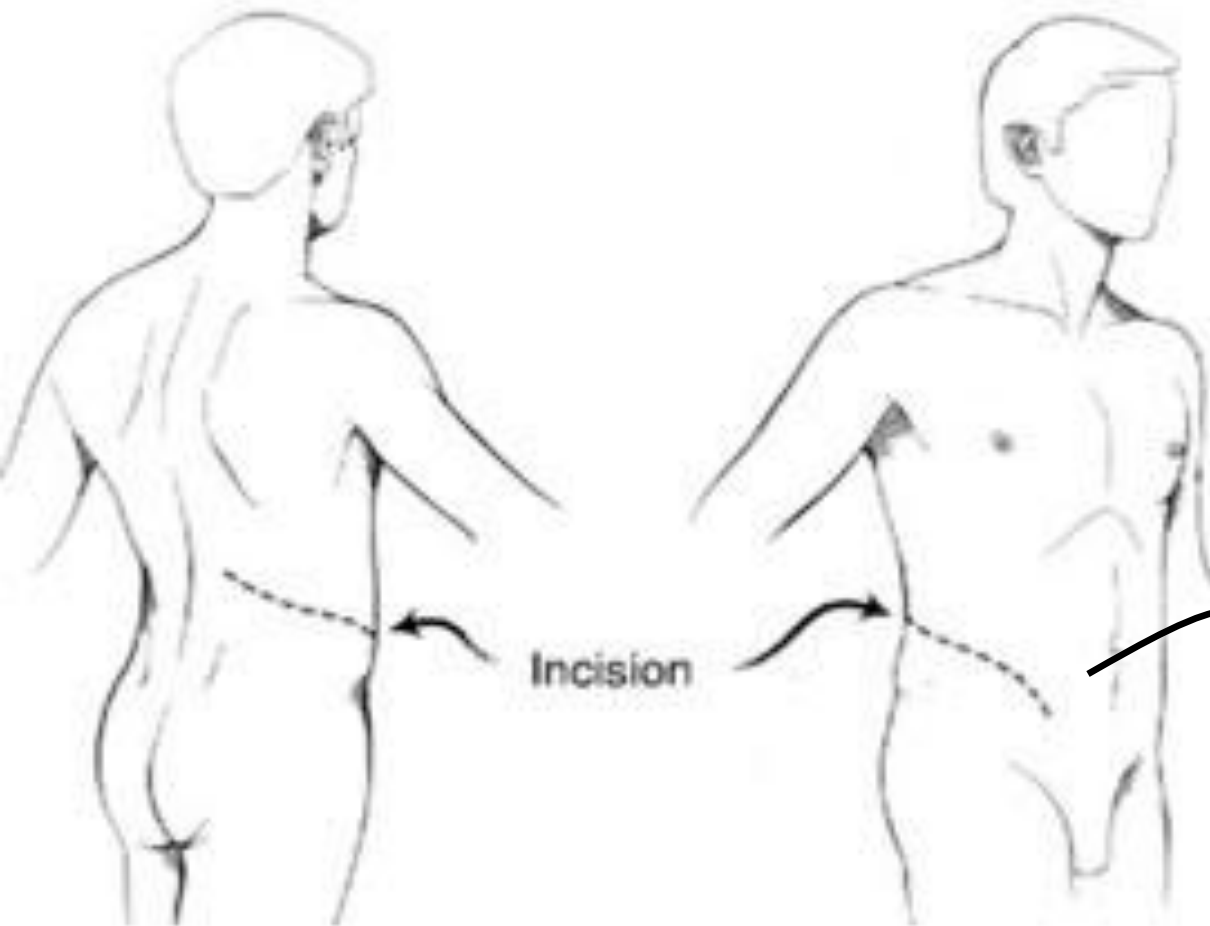
Approach by Fedorov

- *Performed for a donor*

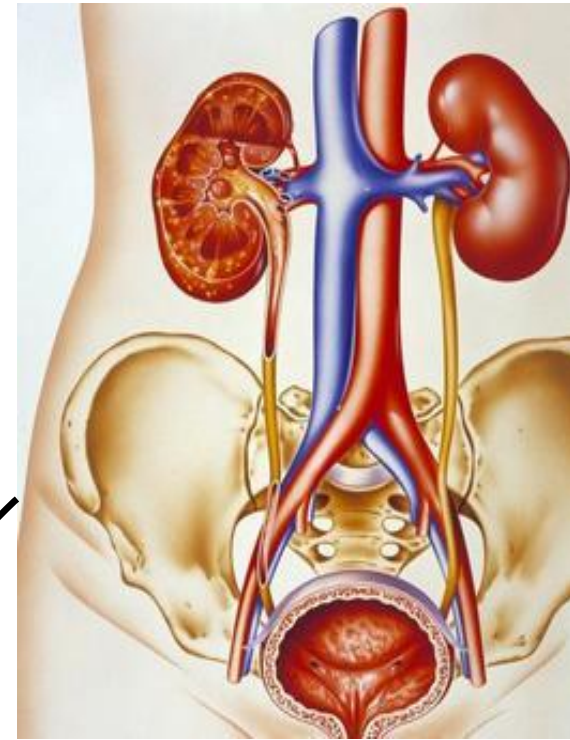


Approach by Bergman-Israel

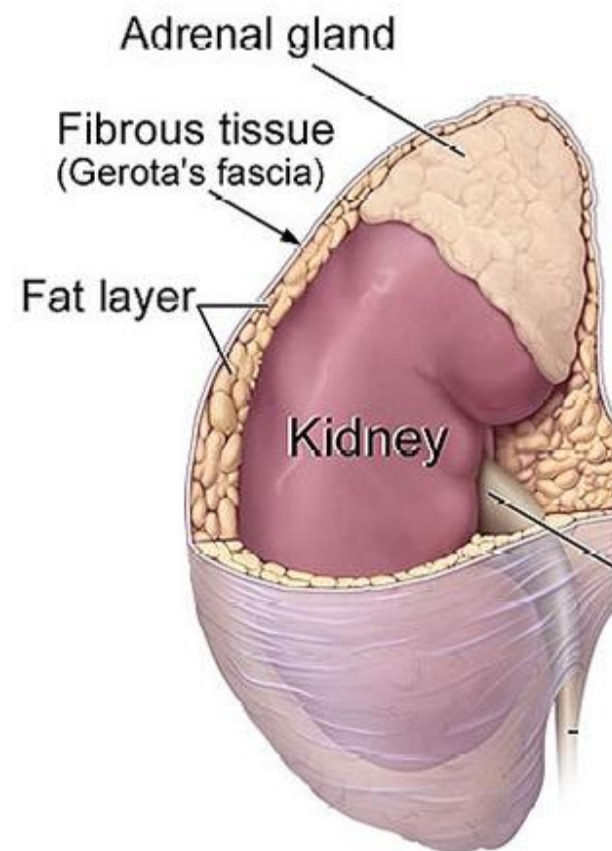
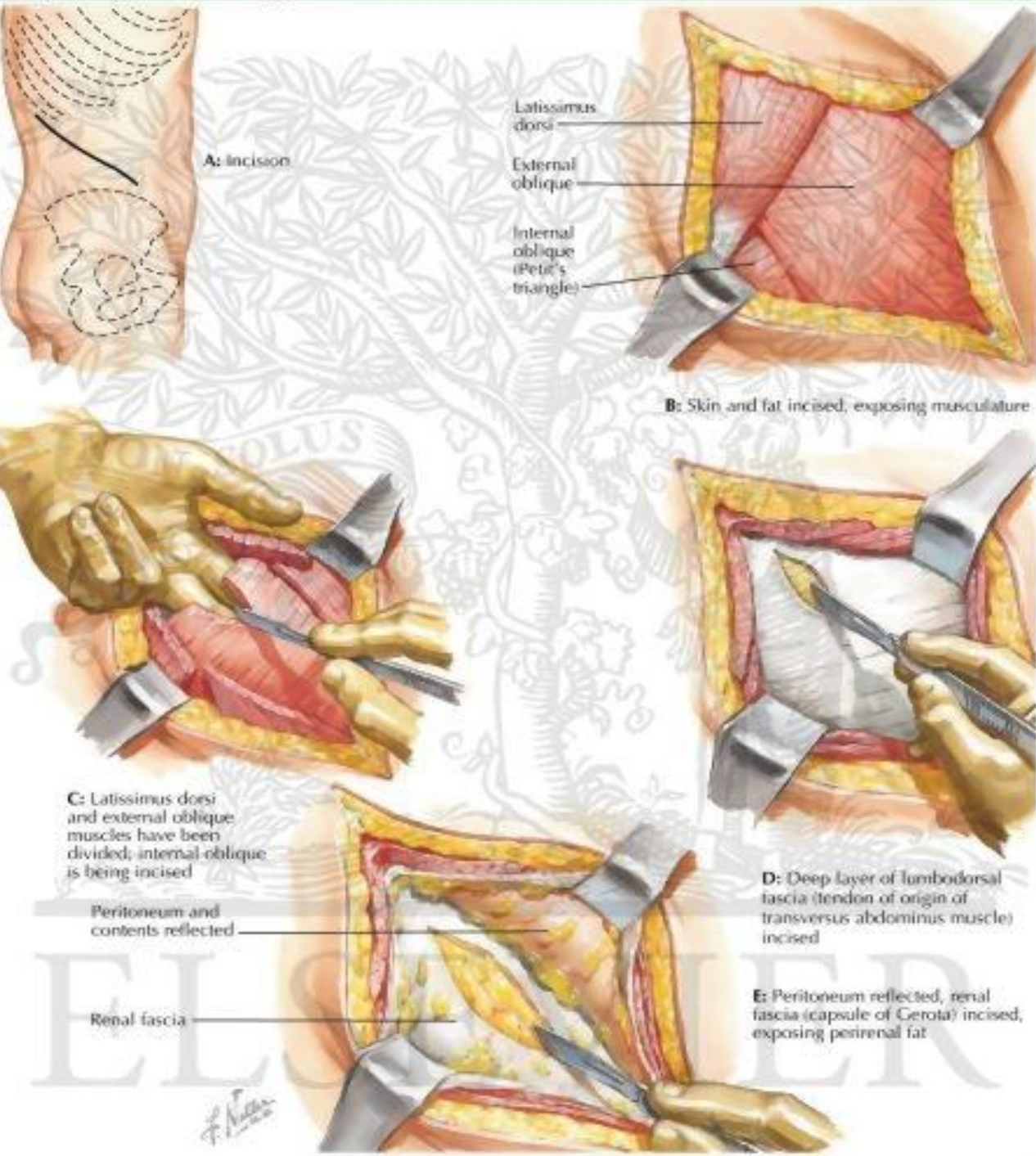
- *Performed for recipient*



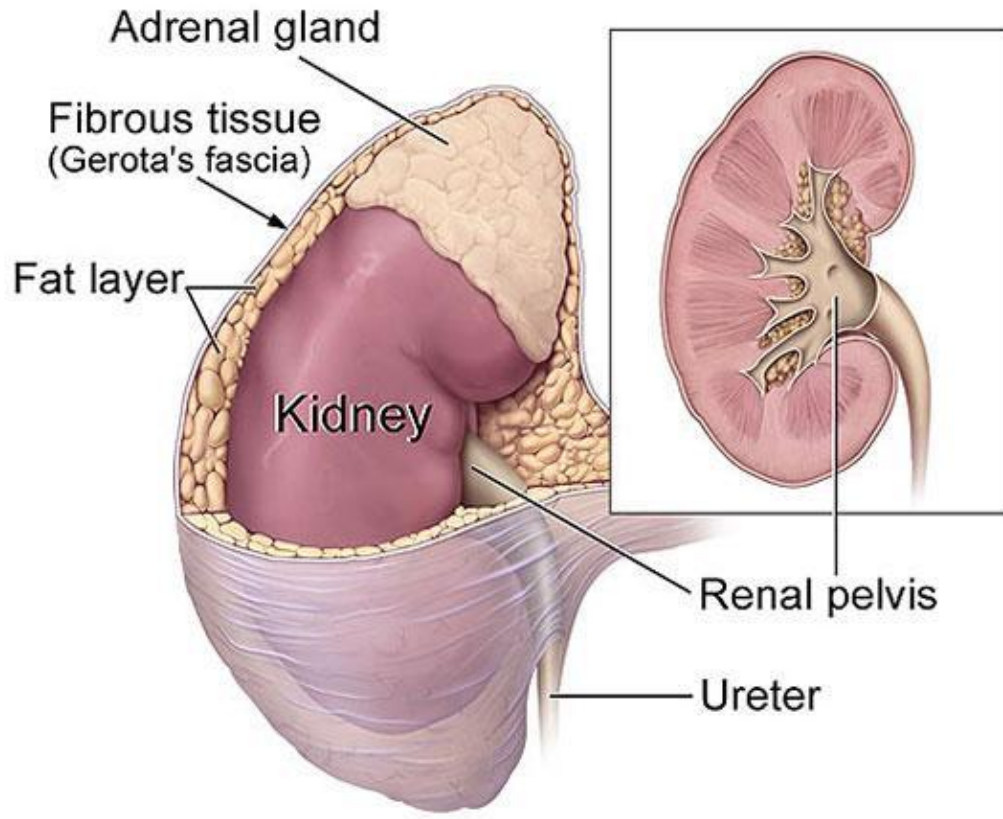
Open Nephrectomy



Incisions



Separation

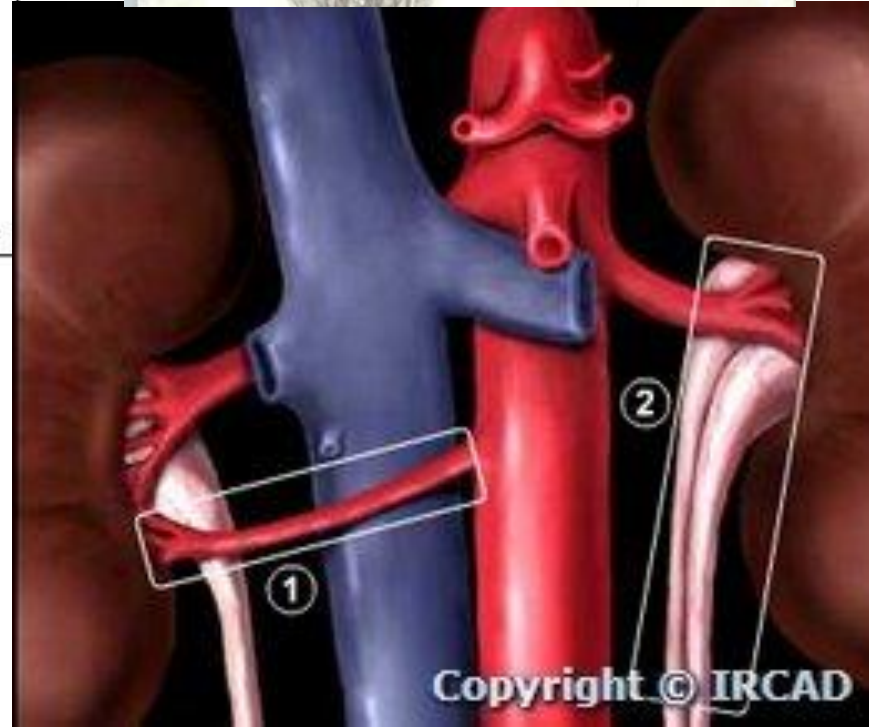


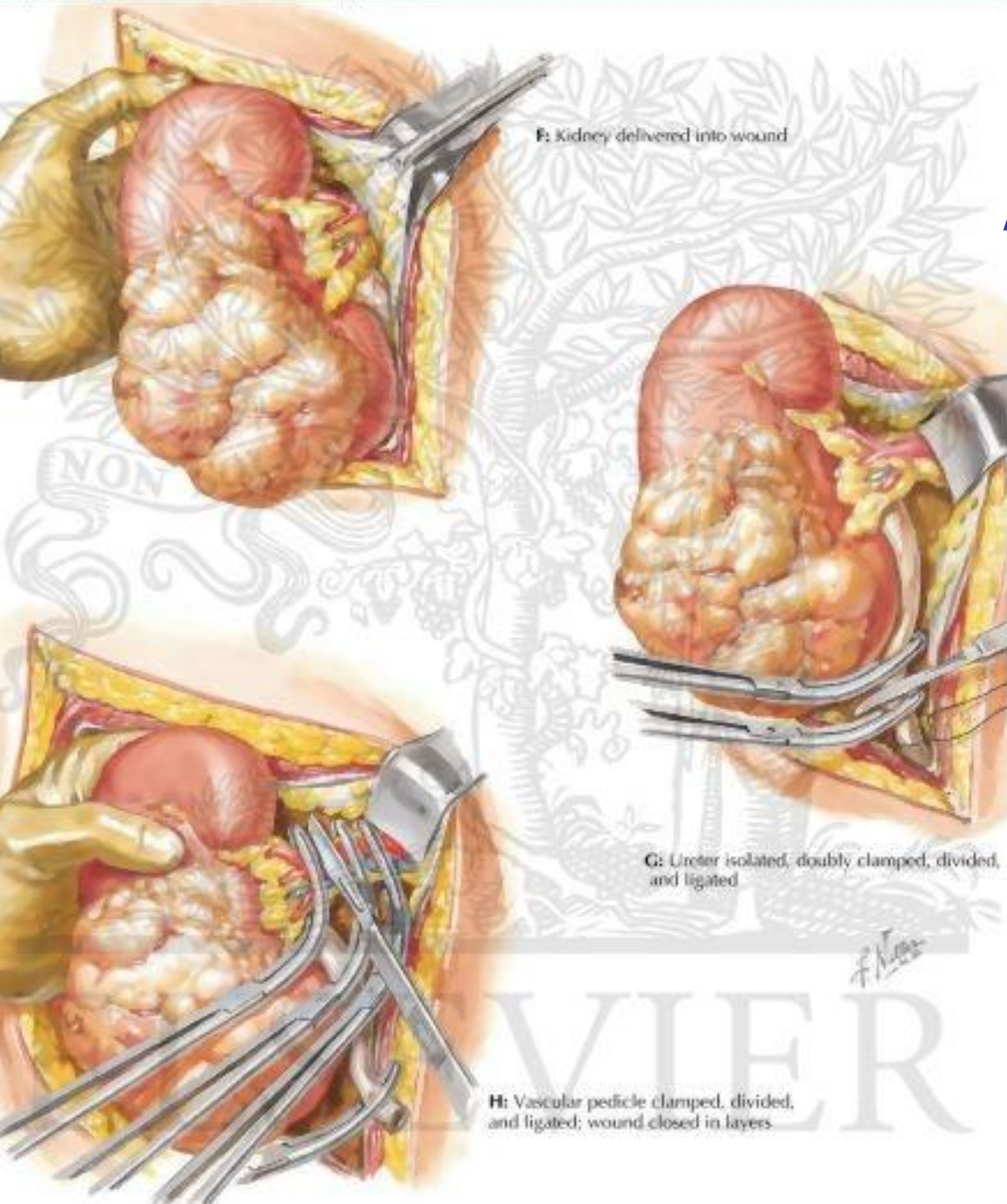
National Cancer Institute



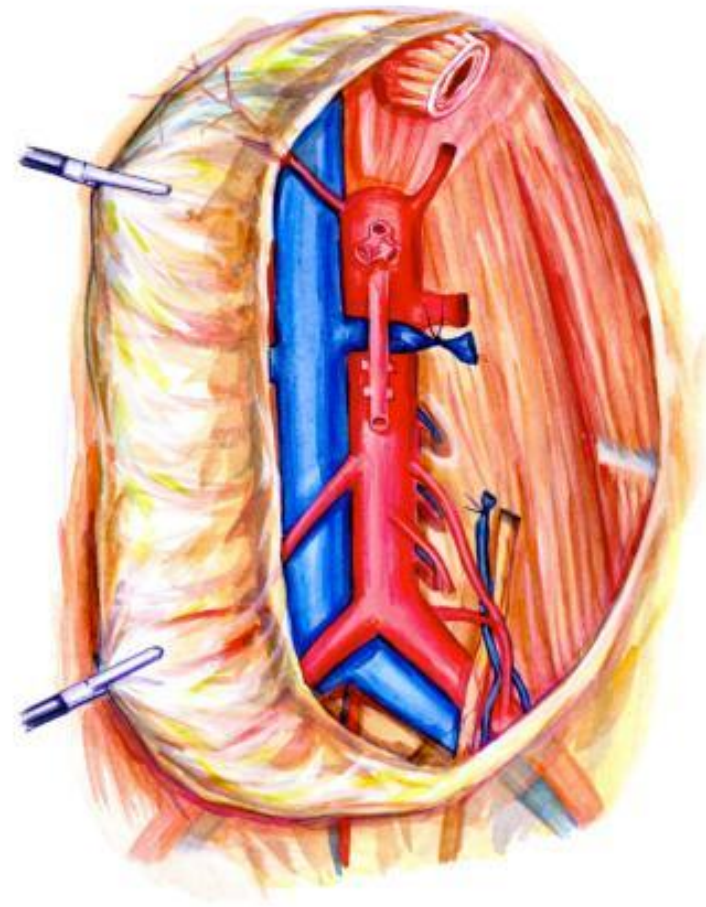
• Separation of kidney and hilum

• Attention! Accessory renal arteries

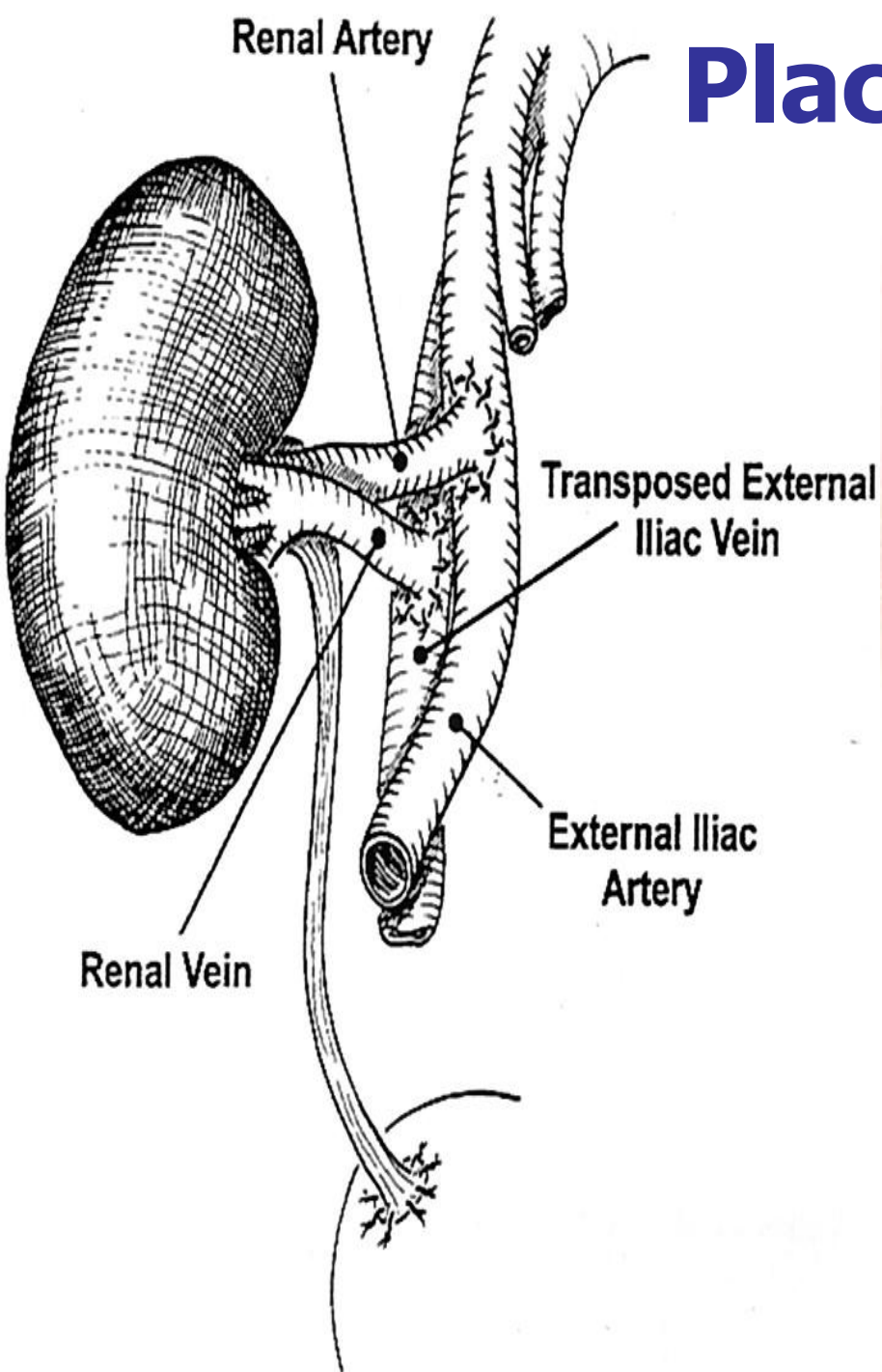




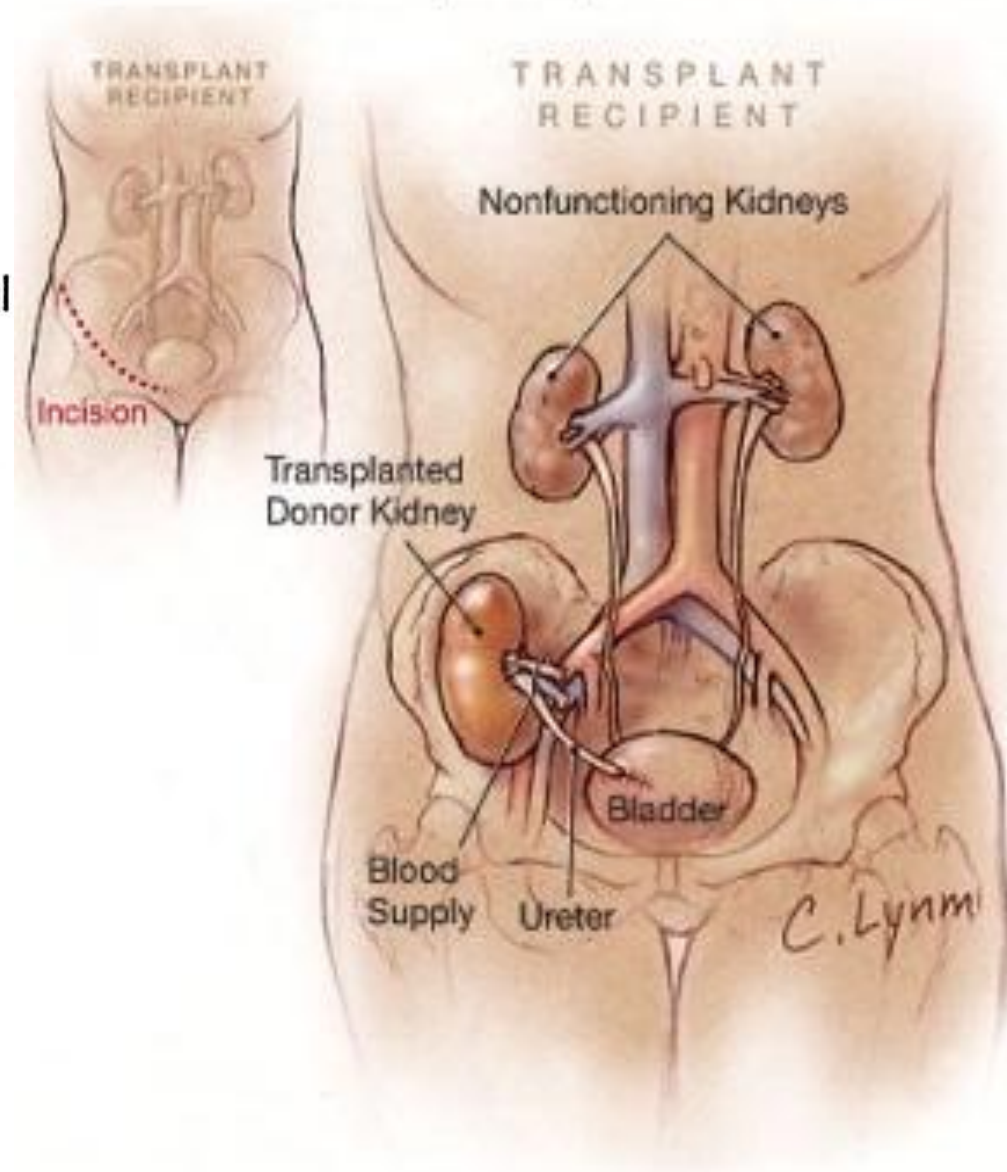
Elimination. Anastomoses.



Placement



Kidney Transplantation Procedure



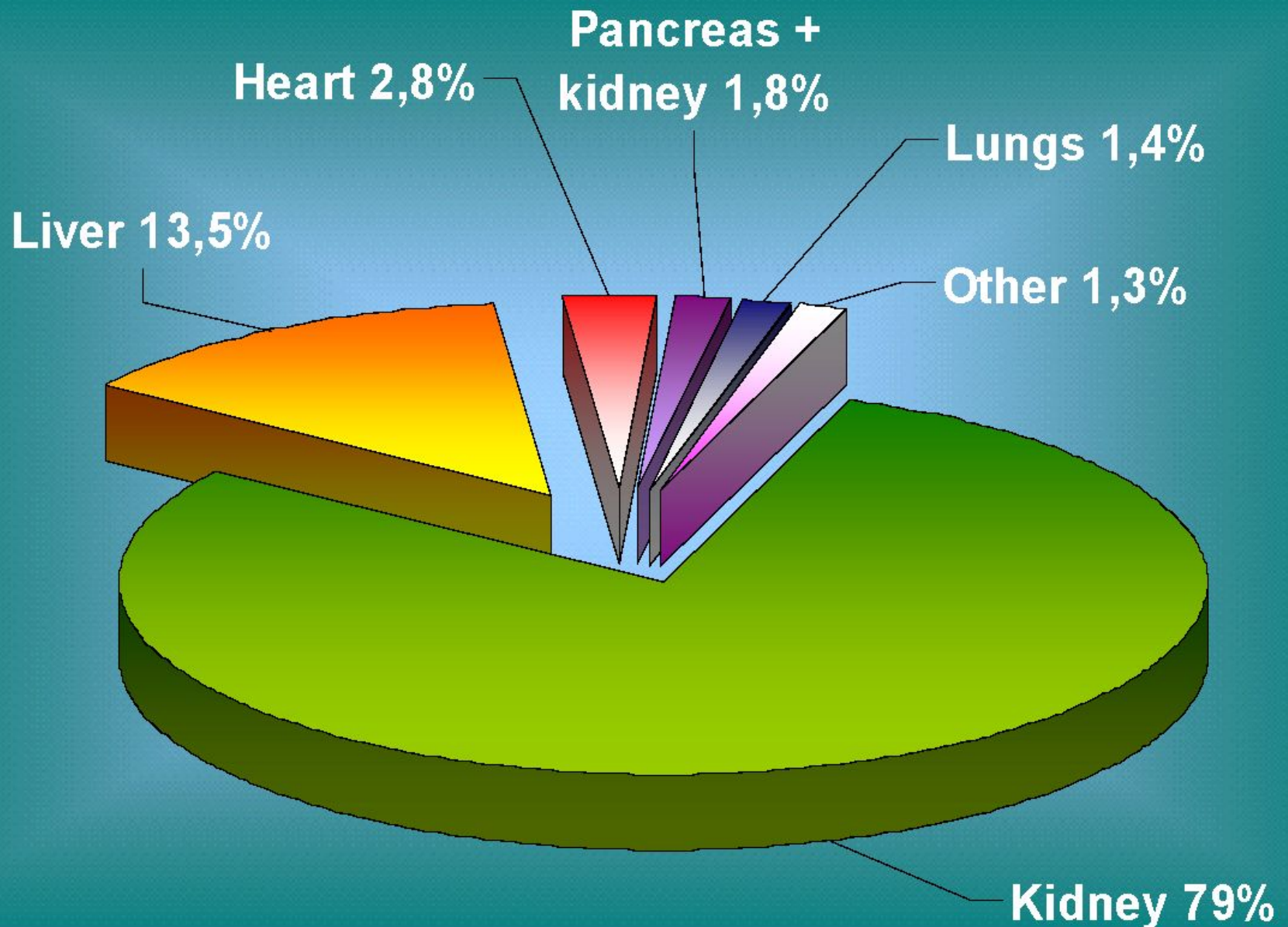
Suturing

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



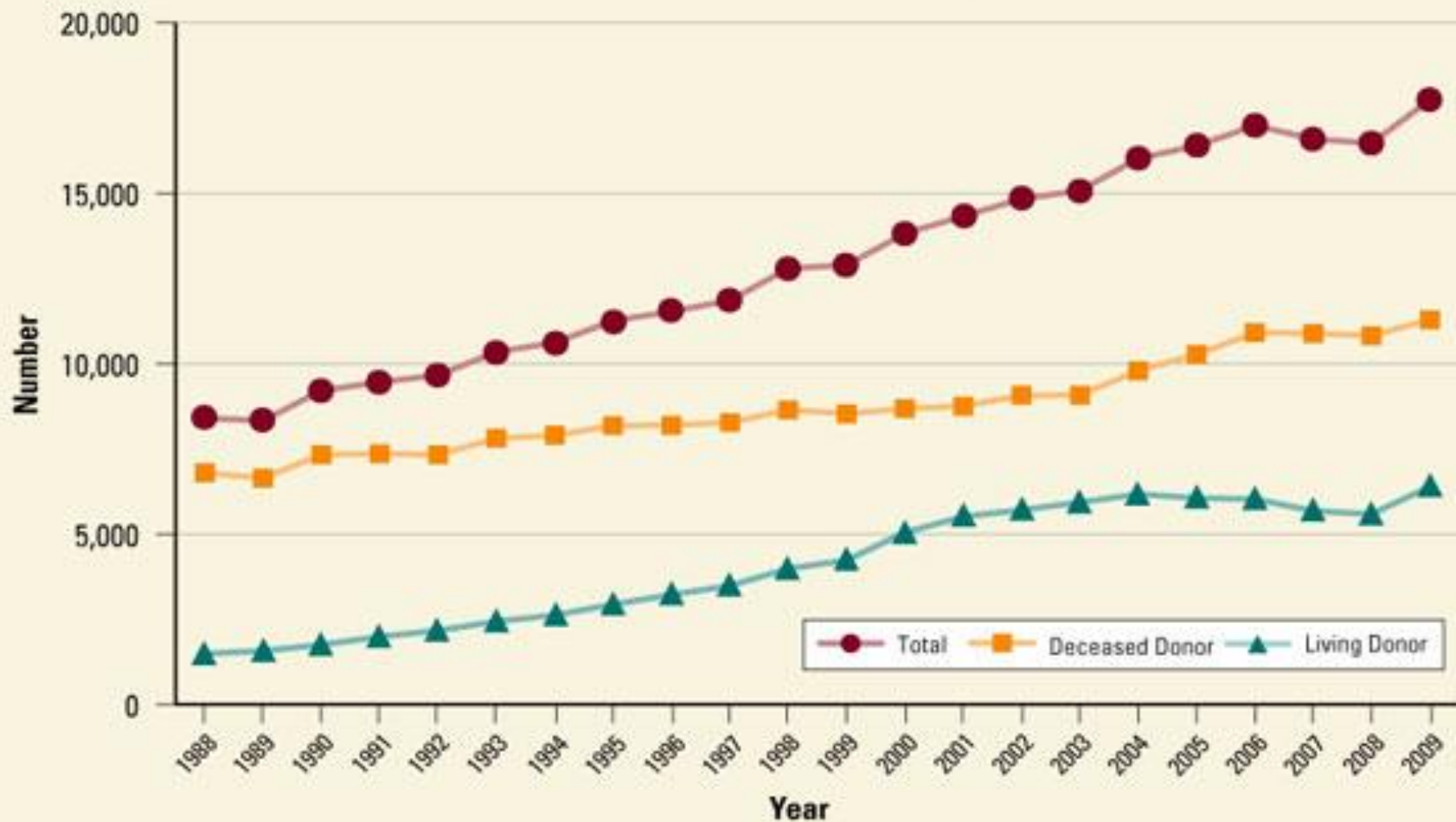
08.05.2005

Diagram of the most demanded organs

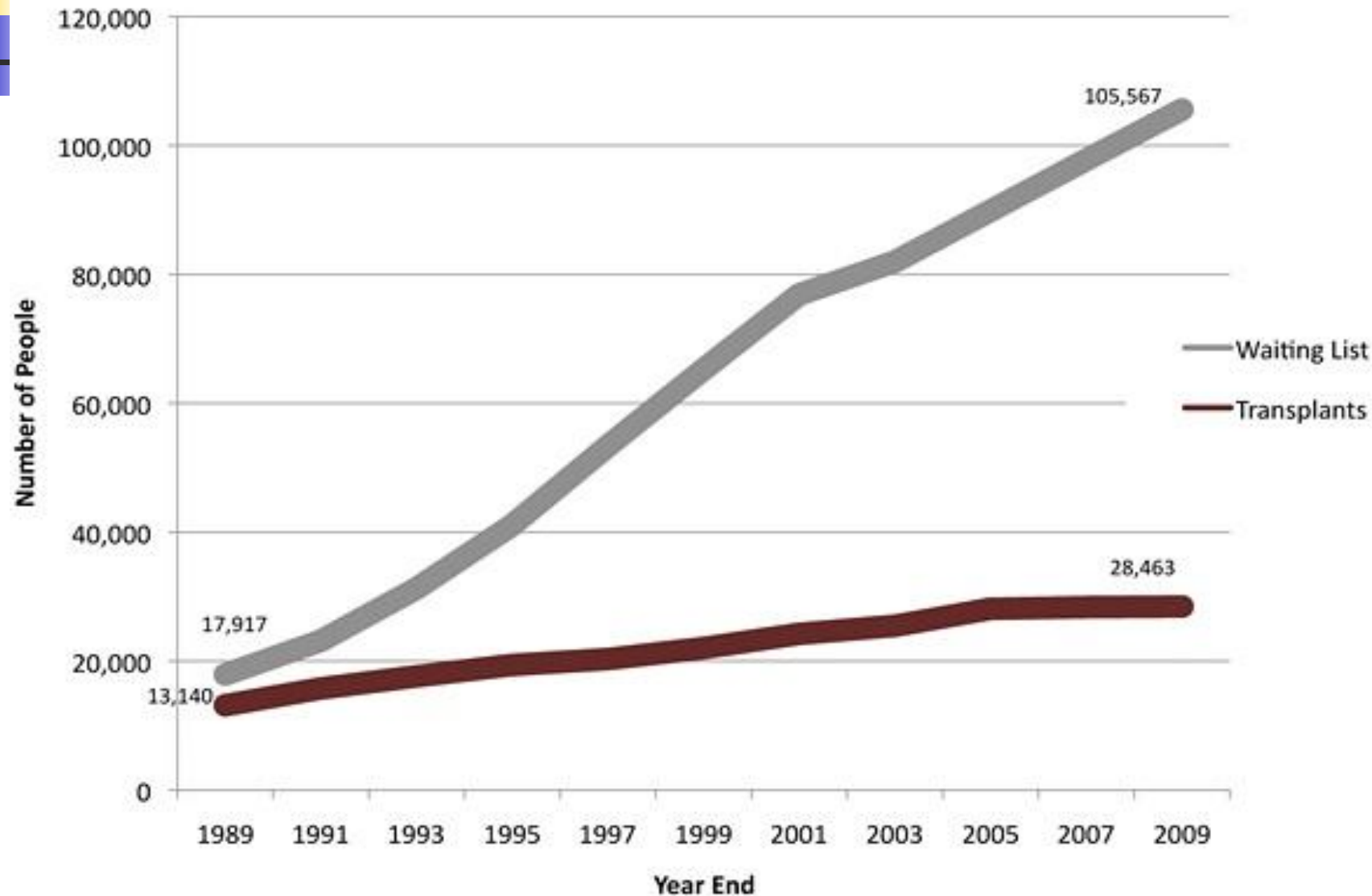


Statistics/USA

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!

