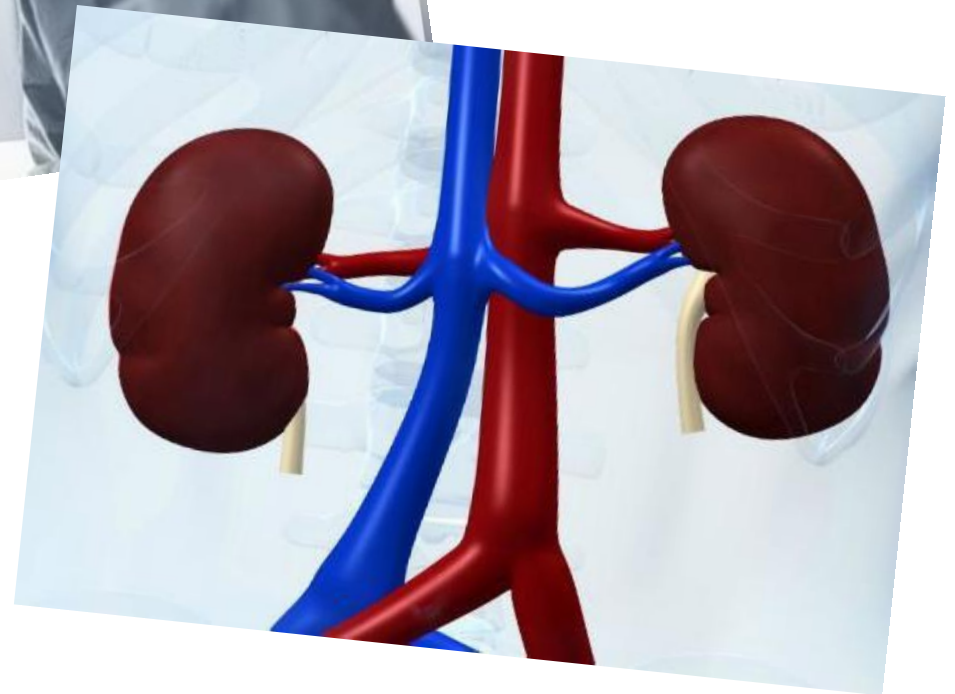


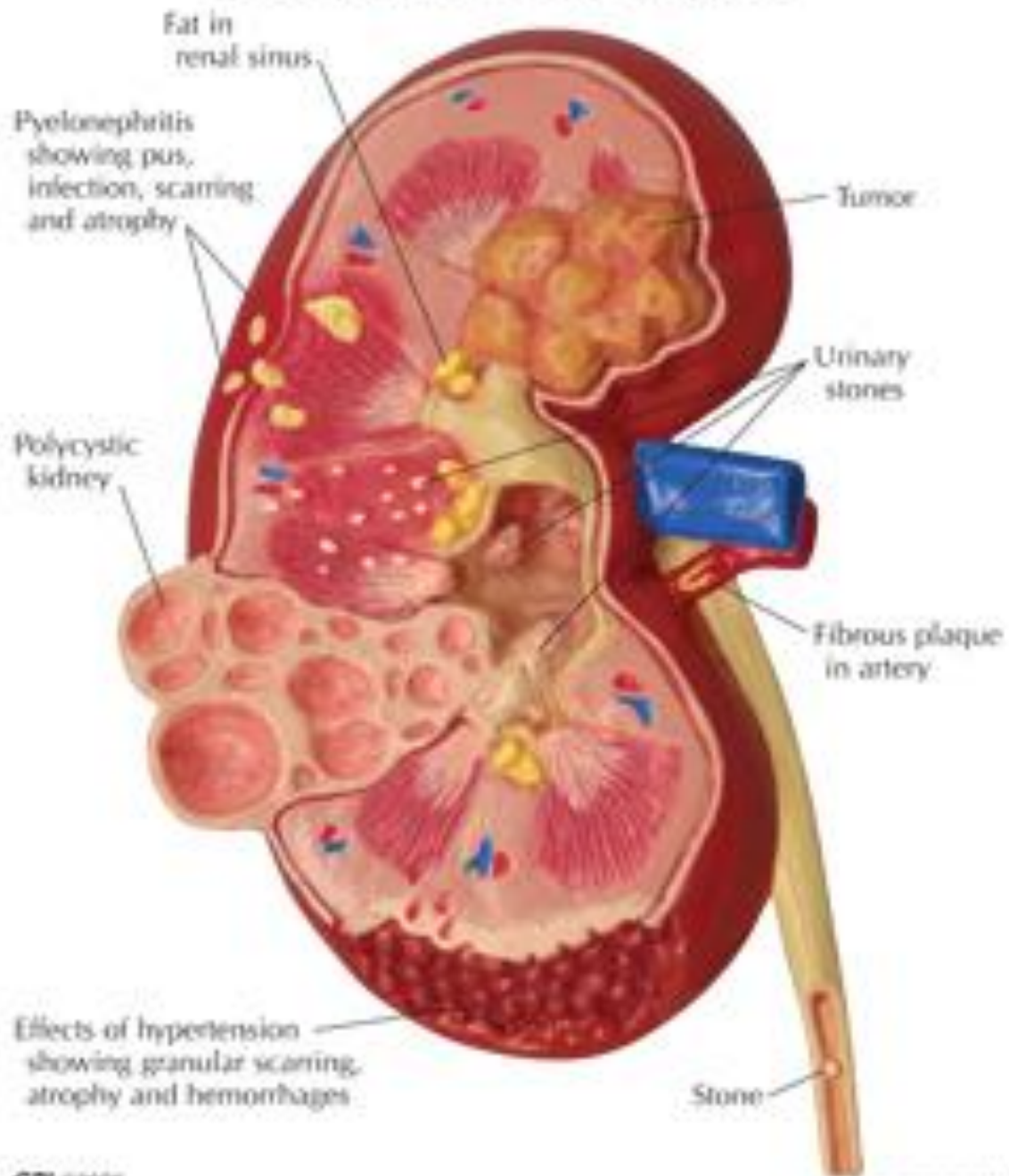
# Transplantation of Kidney



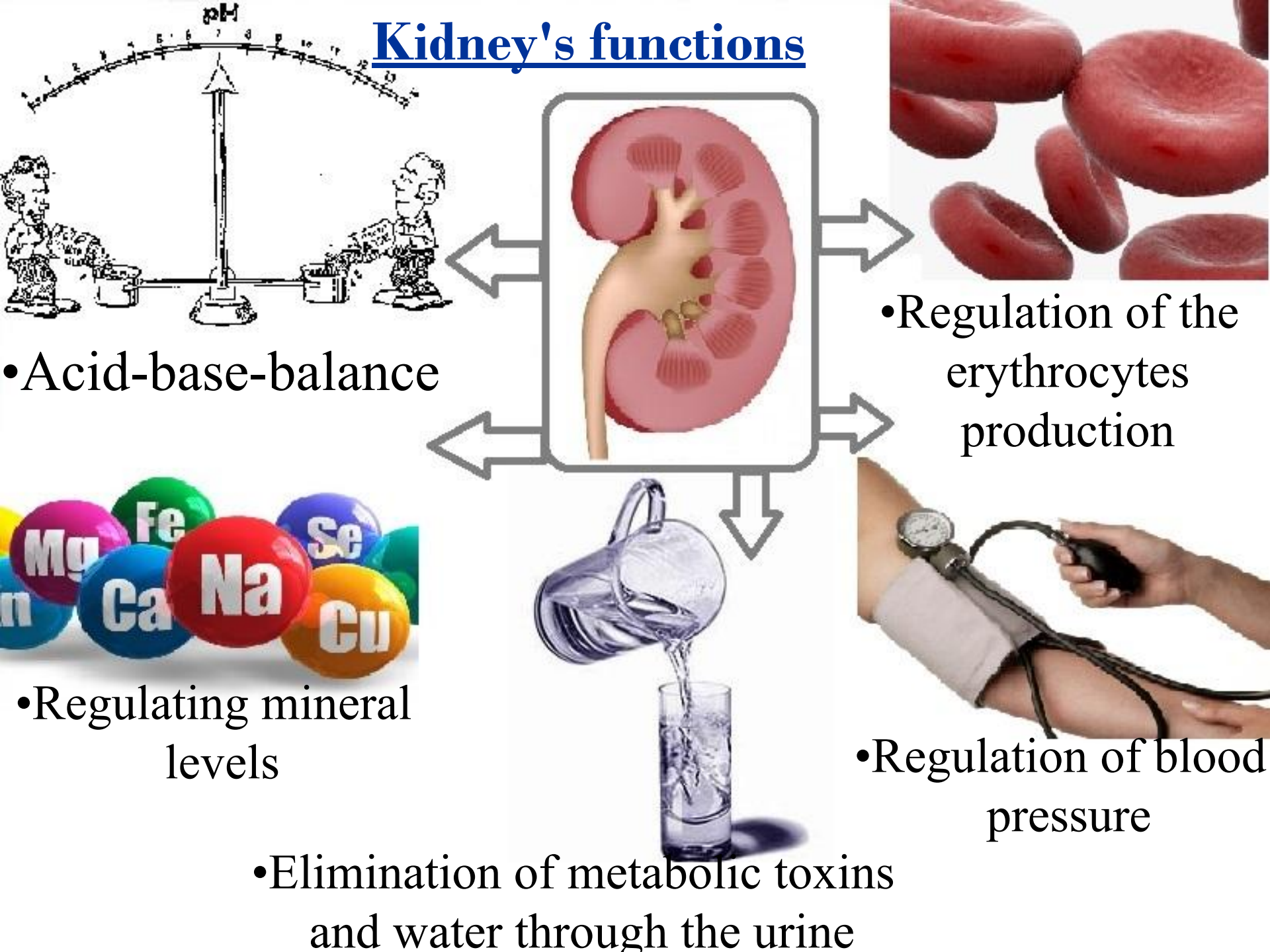
## Reporters:

Roman Shteplyuk  
Kateryna Tietienieva

# KIDNEY DISEASES



# Kidney's functions



• Acid-base-balance



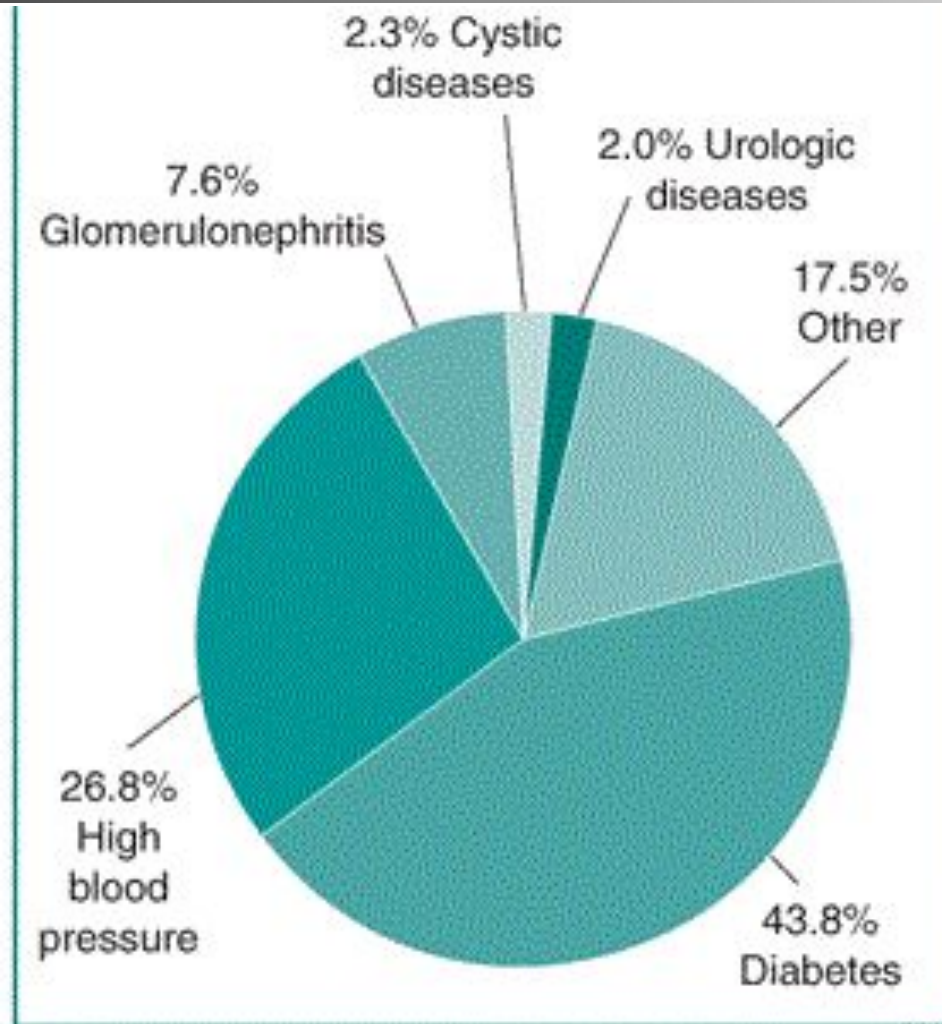
• Regulating mineral levels

• Elimination of metabolic toxins and water through the urine

• Regulation of the erythrocytes production

• Regulation of blood pressure

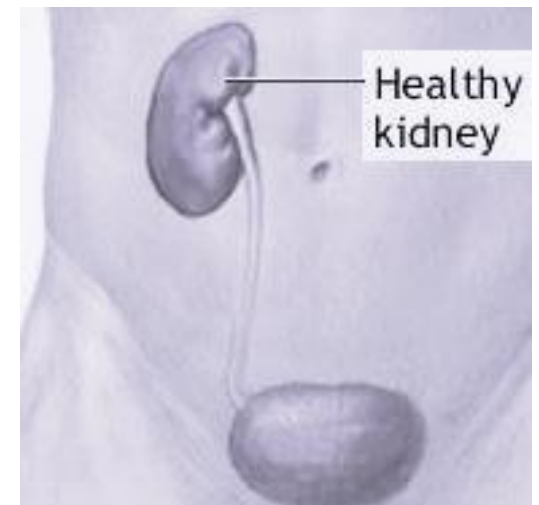
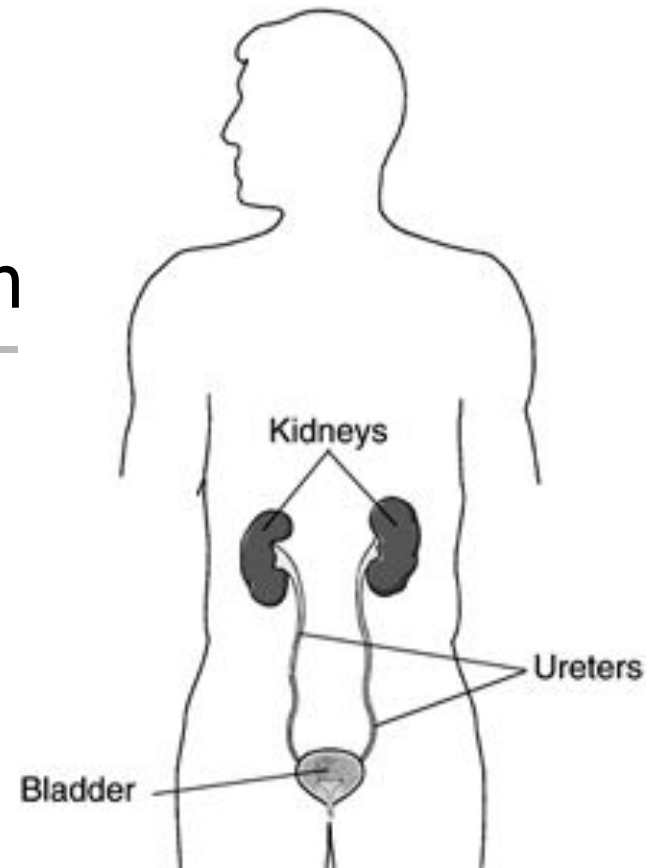
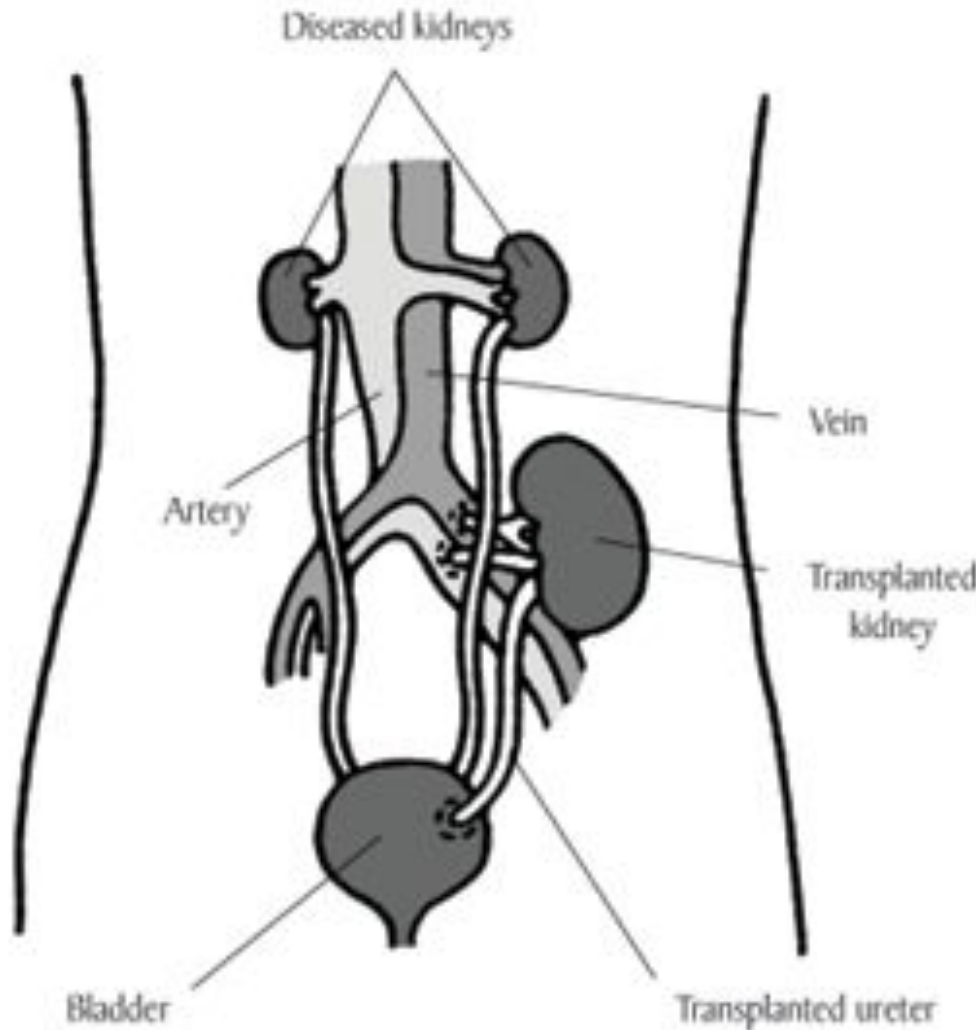
# Precursors of terminal stage of renal failure



# Damage of both kidneys

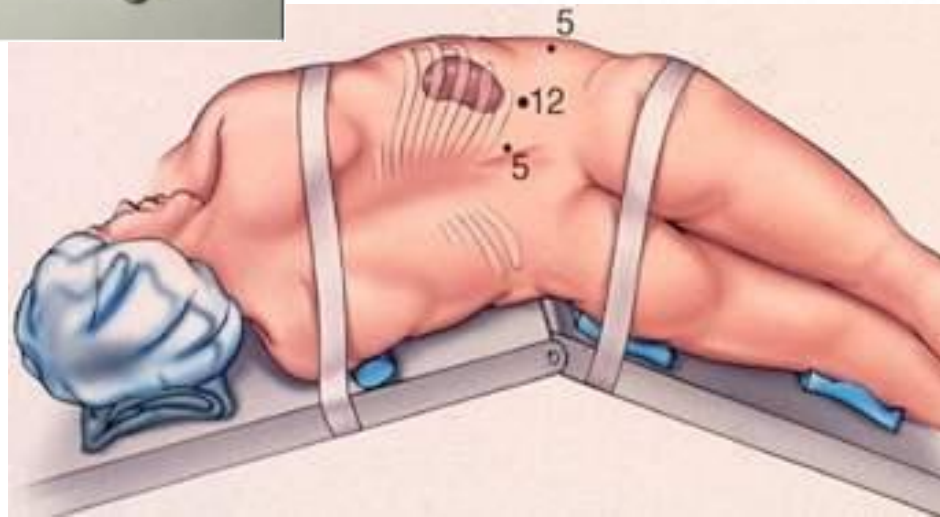
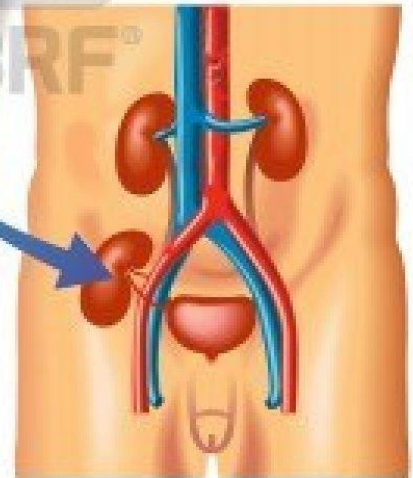
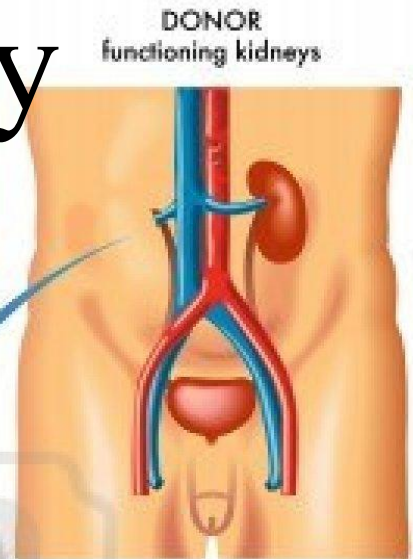
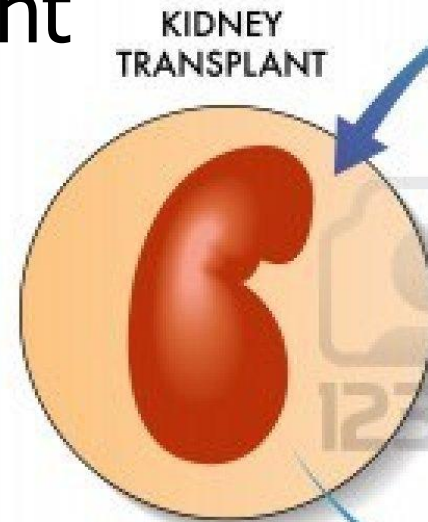
Haemodialysis

Transplantation



# Transplantation of kidney

- *Ligasure* technique
- Position of the patient



**PRECONDITION**



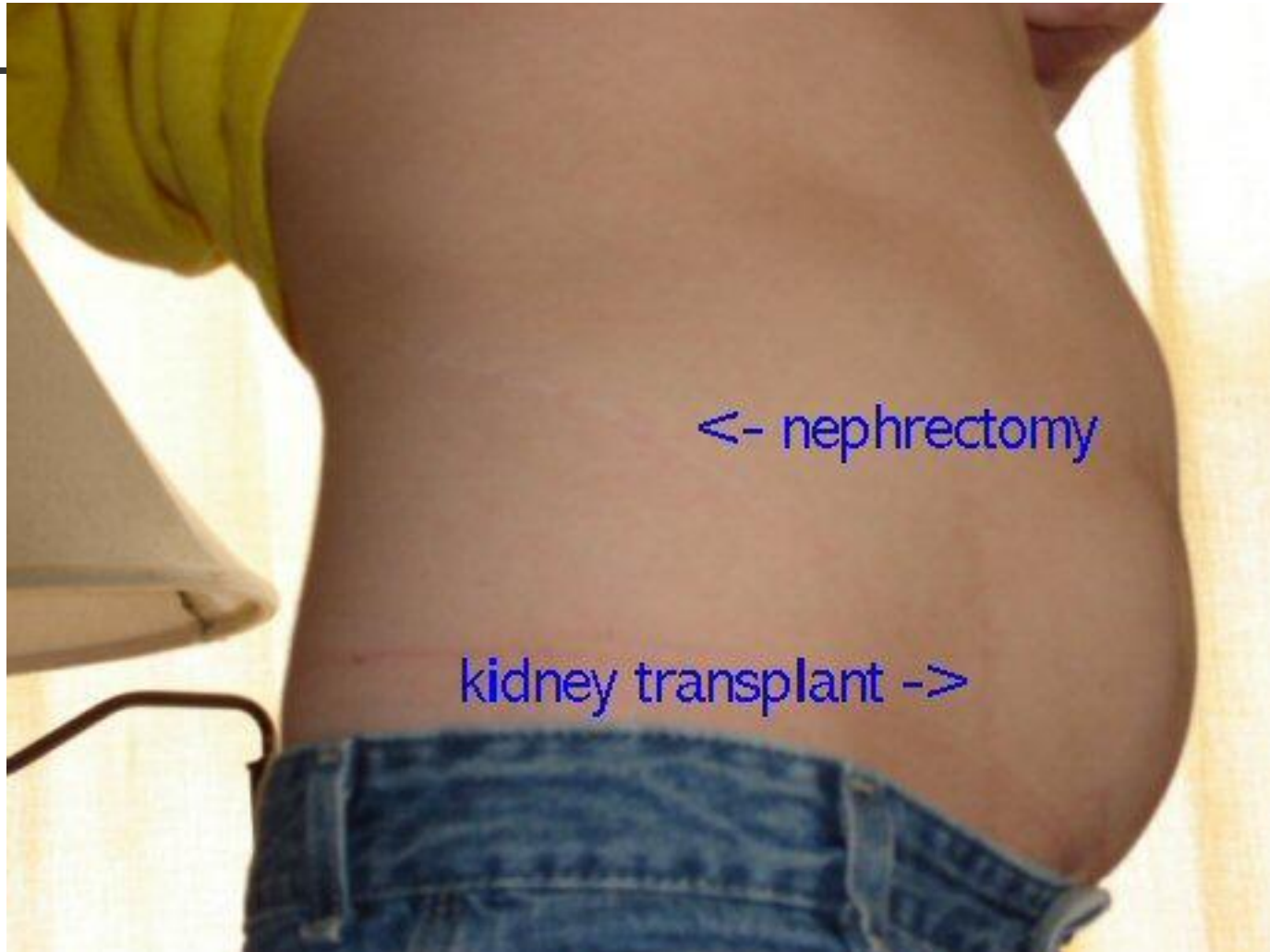
**HEALTHY KIDNEY**

**COMPATIBLE TISSUES**

**IMMUNOSUPPRESSIVE DRUGS**



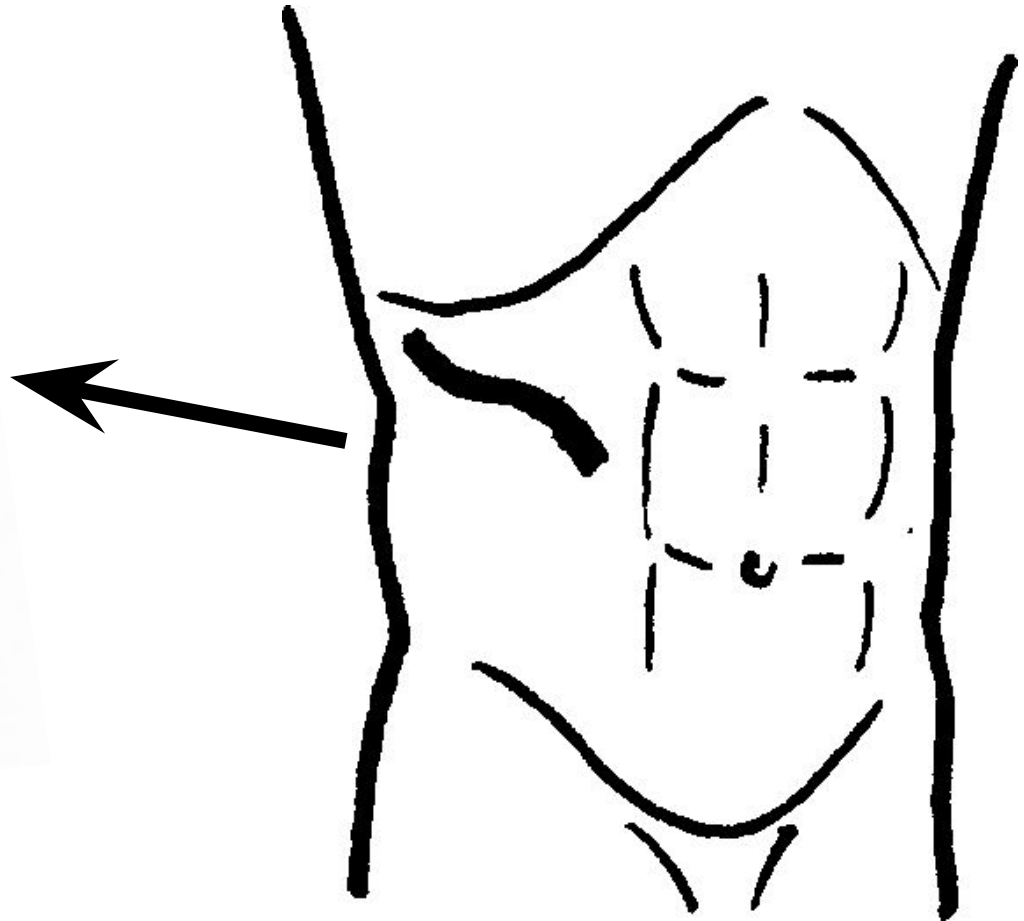
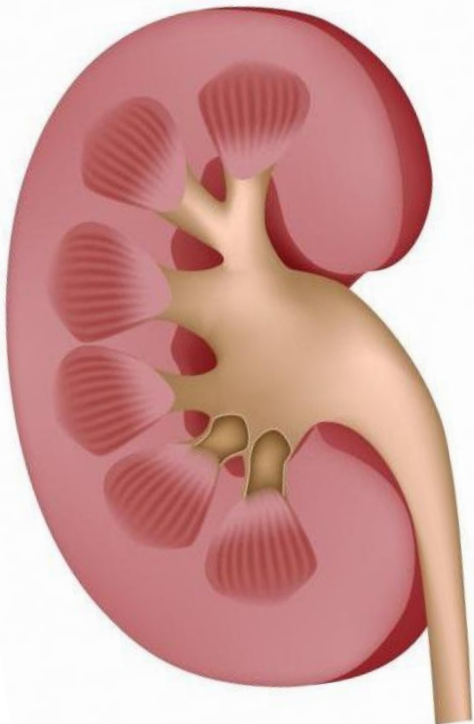
# Special features of kidney's transplantation





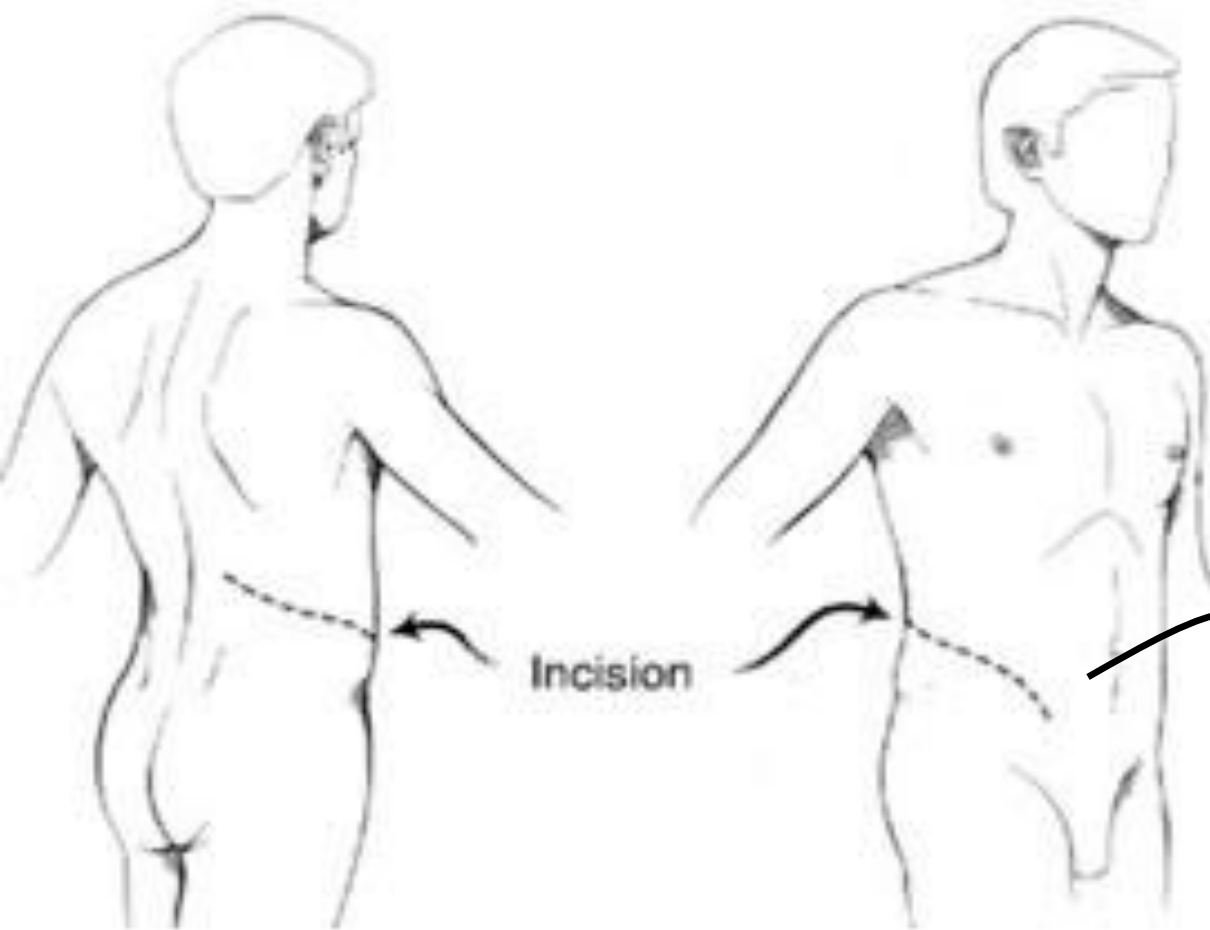
# Approach by Fedorov

- *Performed for a donor*

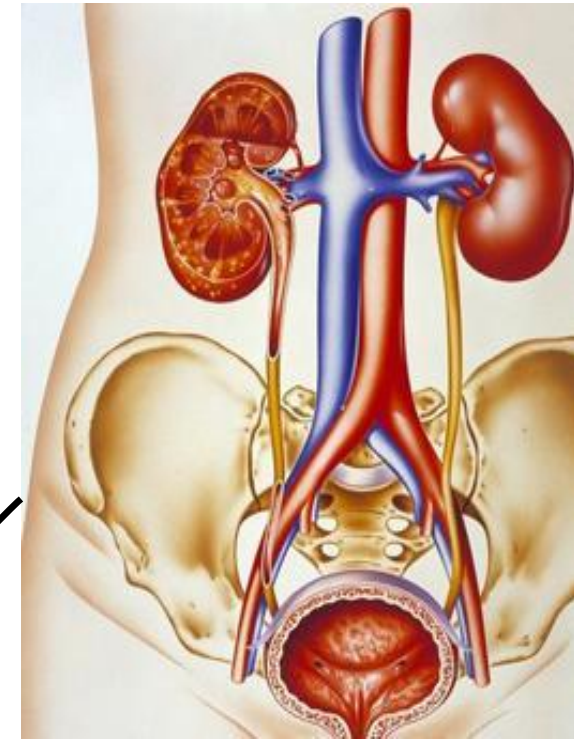


# Approach by Bergman-Israel

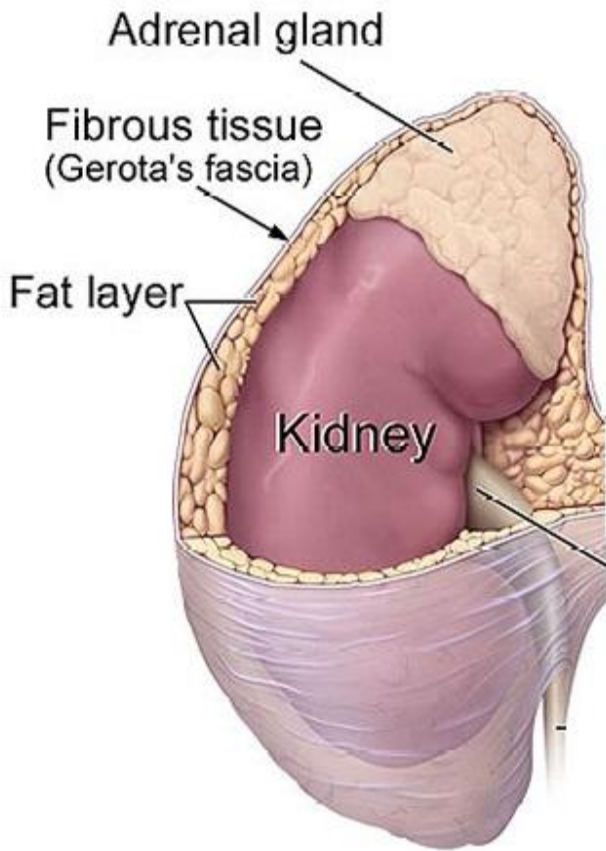
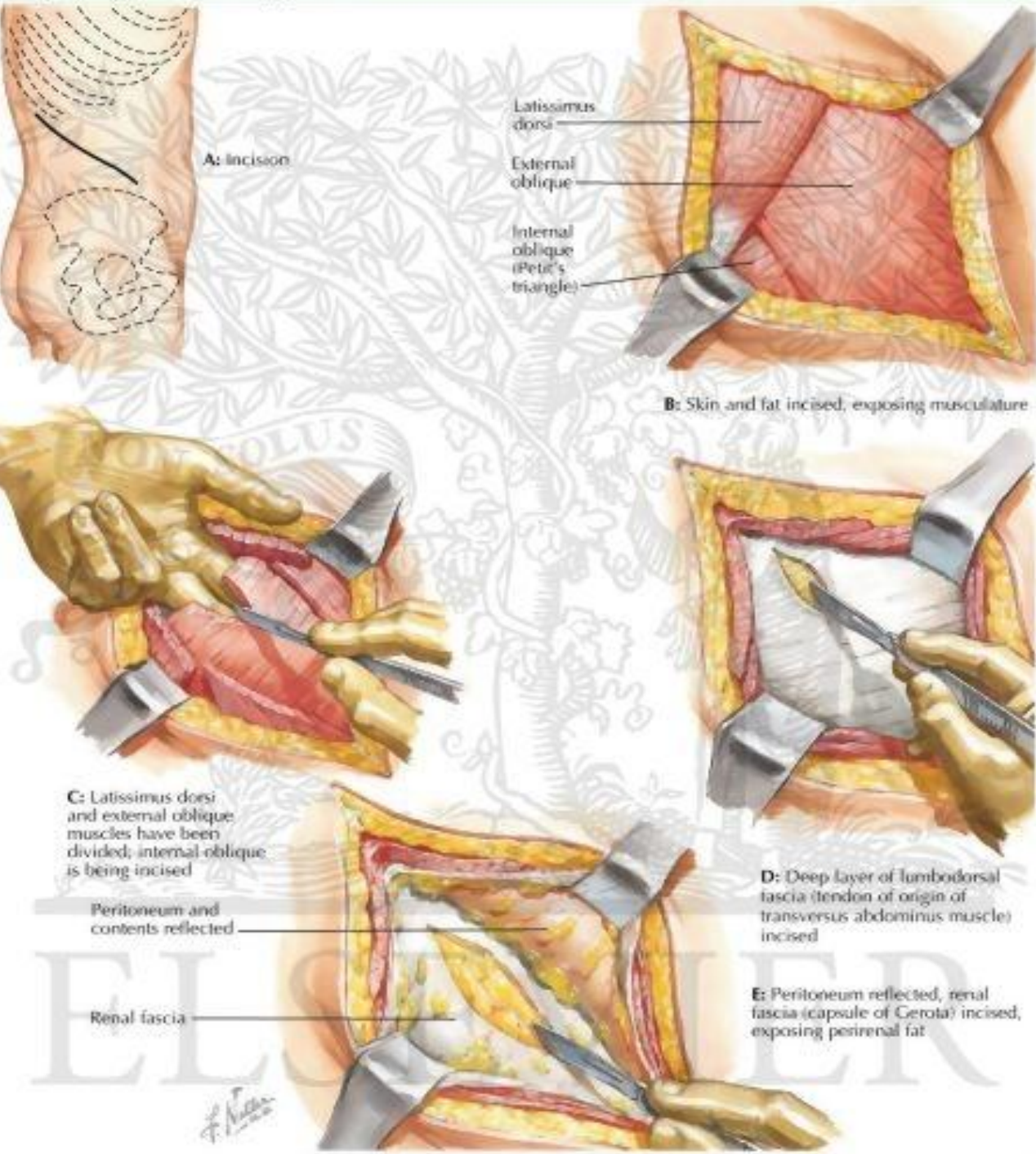
- *Performed for recipient*



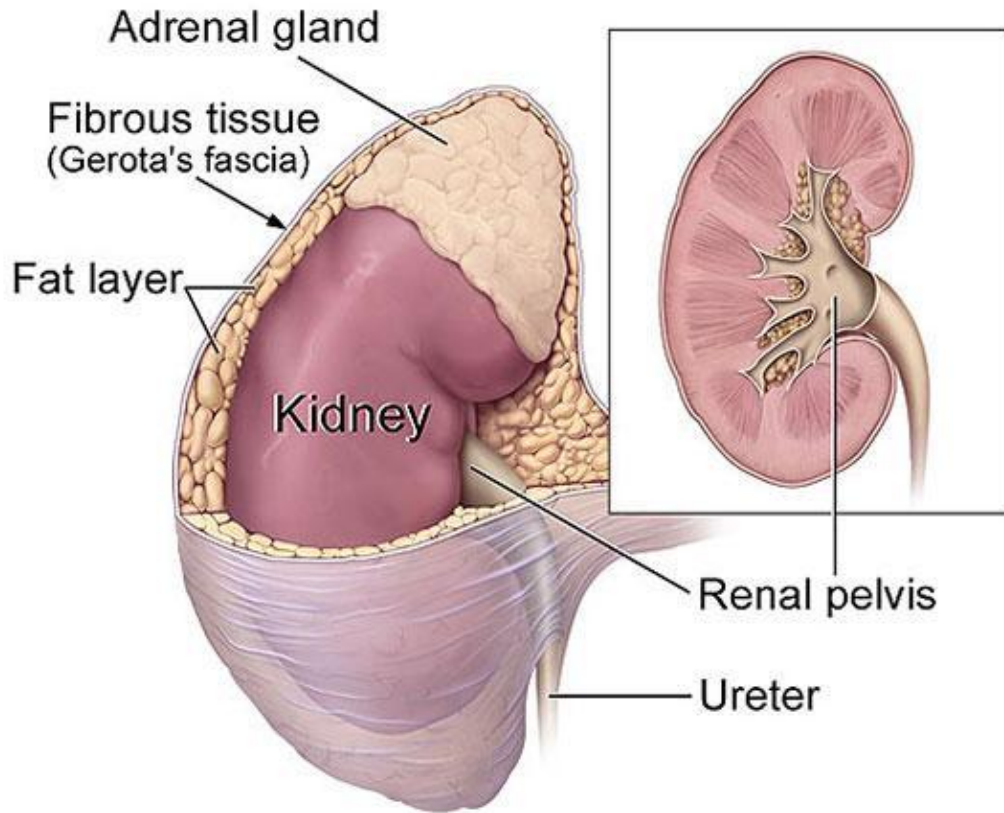
Open Nephrectomy



# Incisions



# Separation

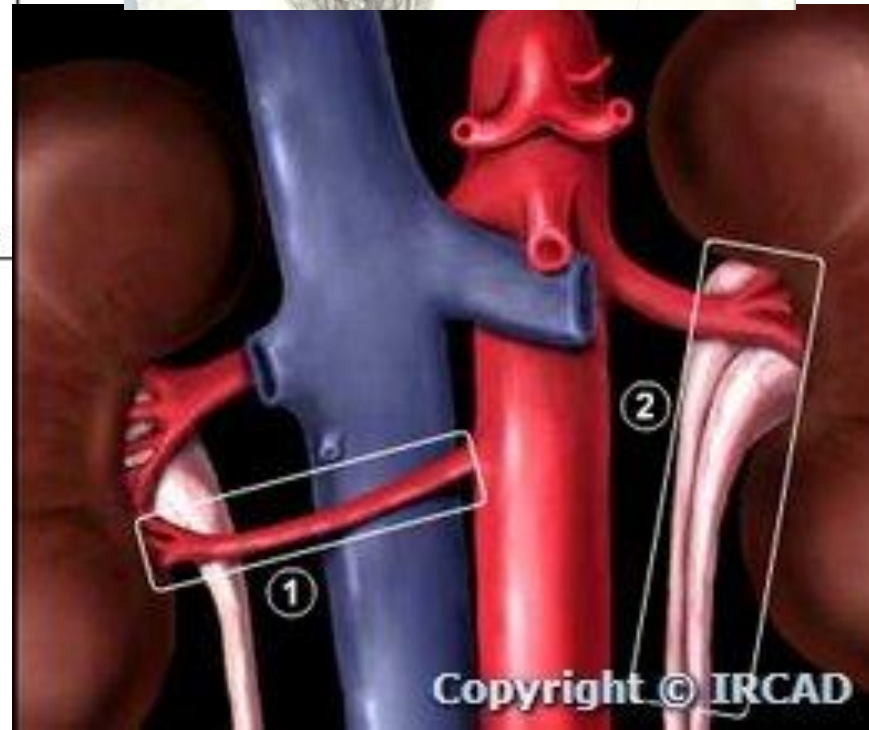


National Cancer Institute

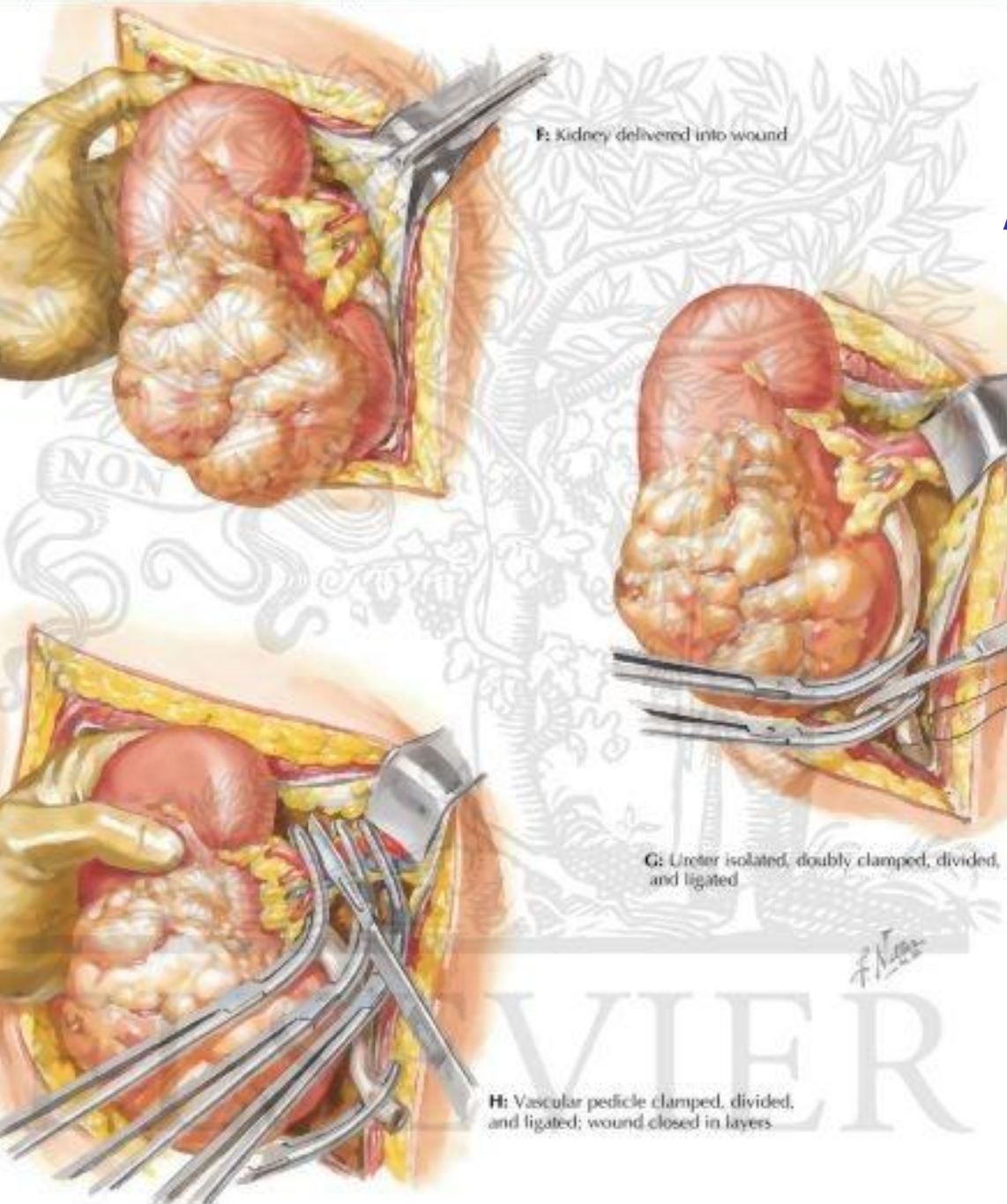


► Separation of kidney and hilum

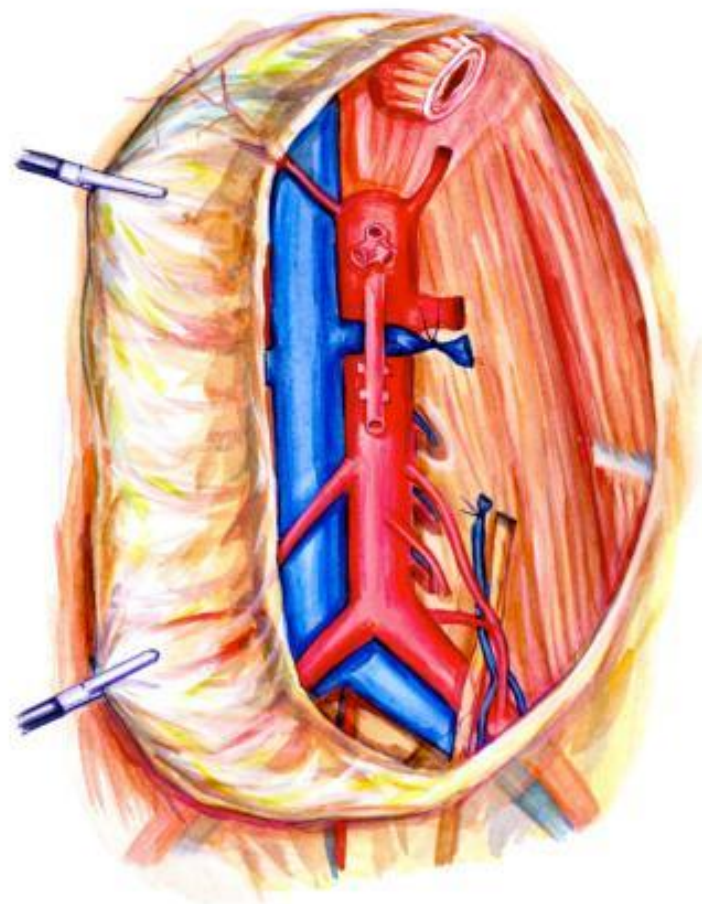
► Attention! Accessory renal arteries



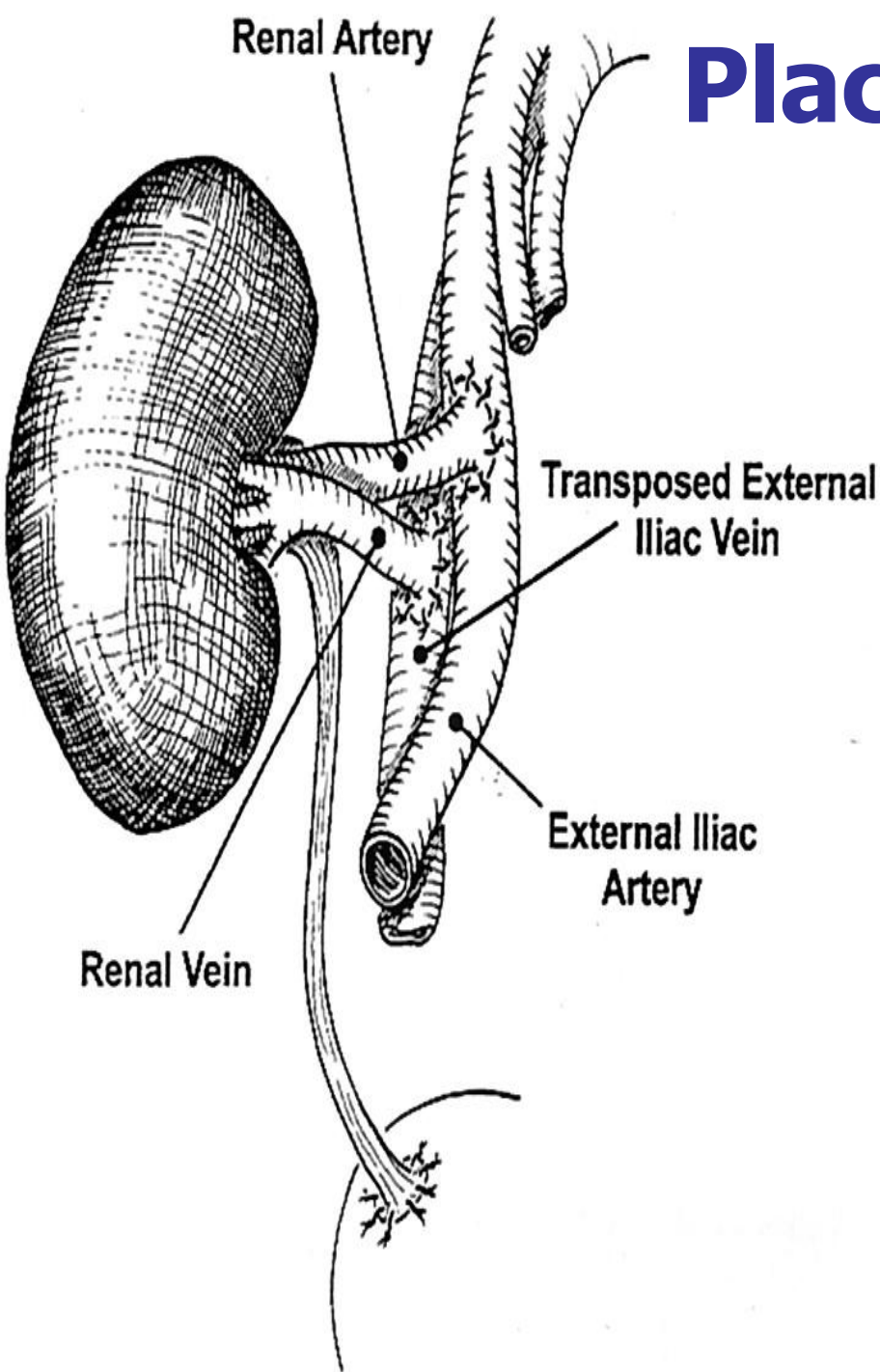
Copyright © IRCAD



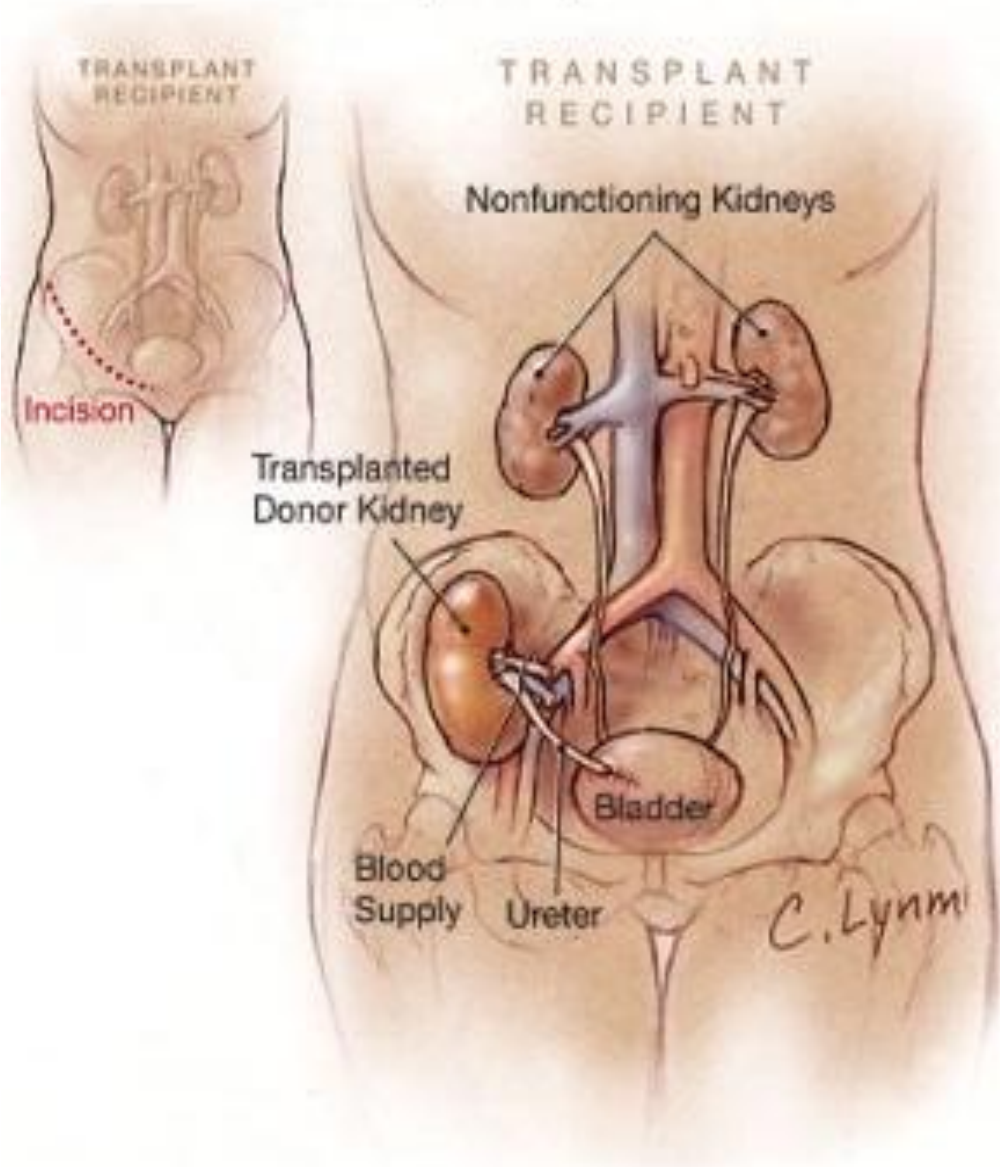
# Elimination. Anastomoses.



# Placement



## Kidney Transplantation Procedure



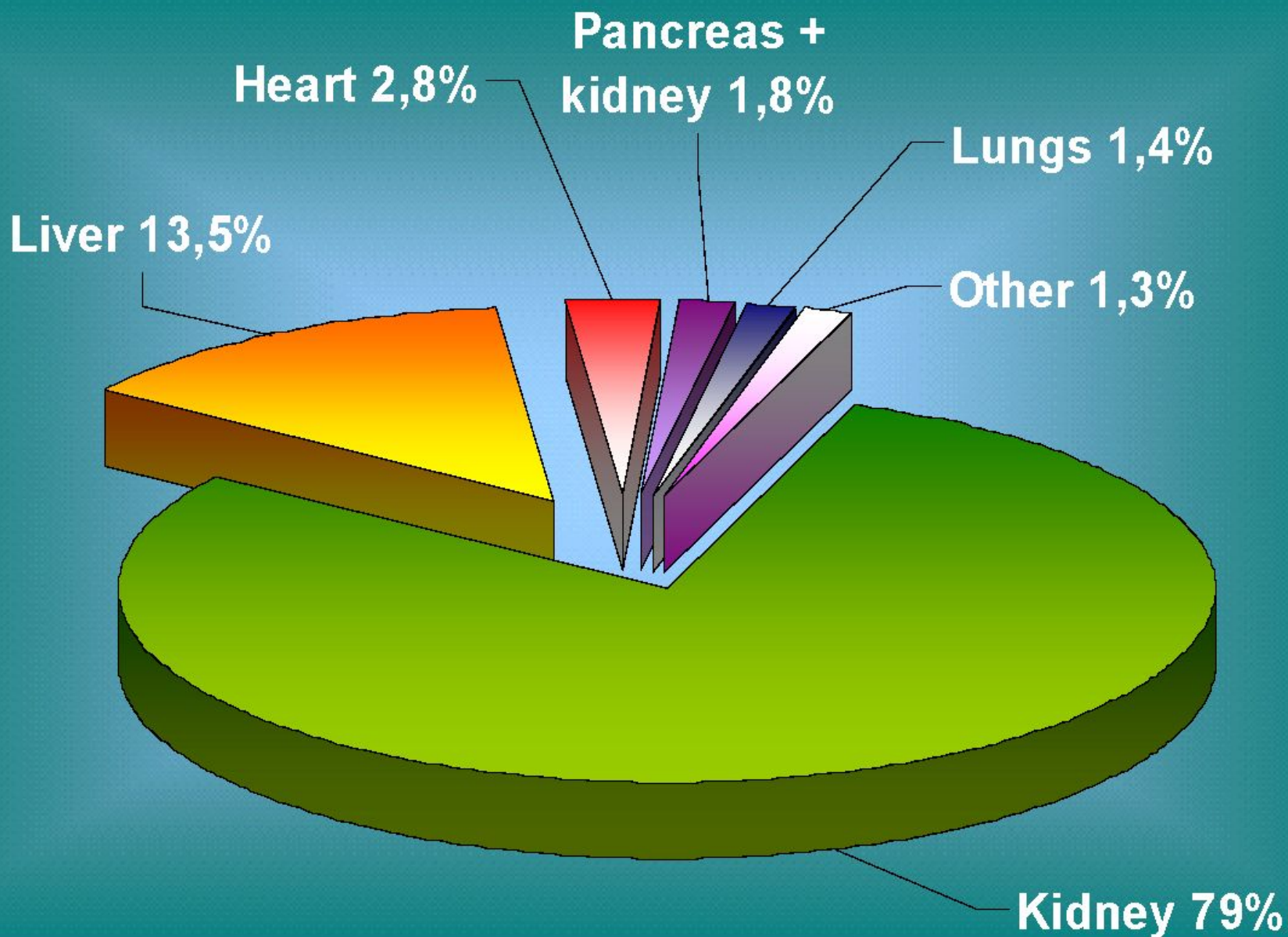
# Suturing

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



08.05.2005

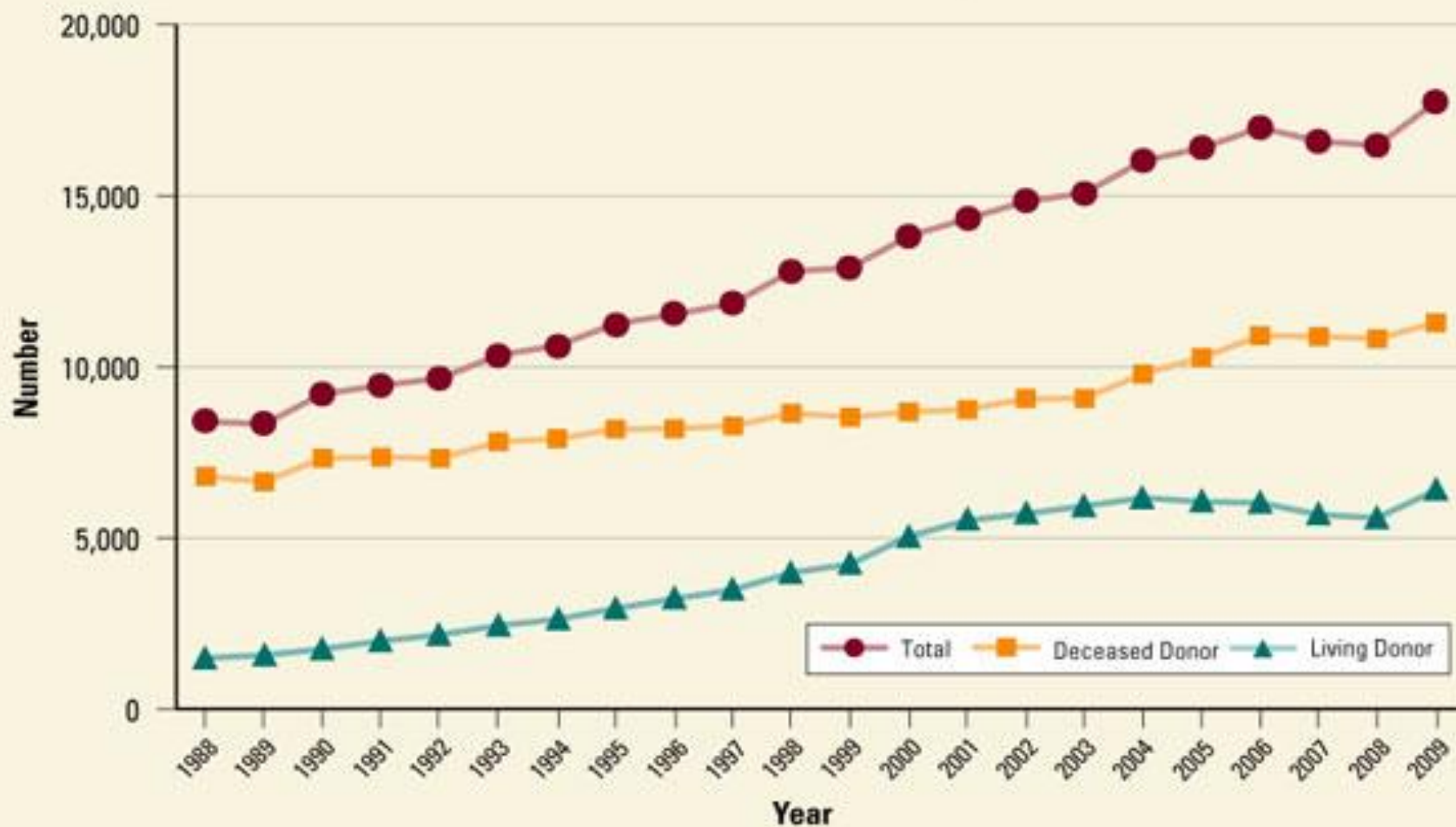
# Diagram of the most demanded organs



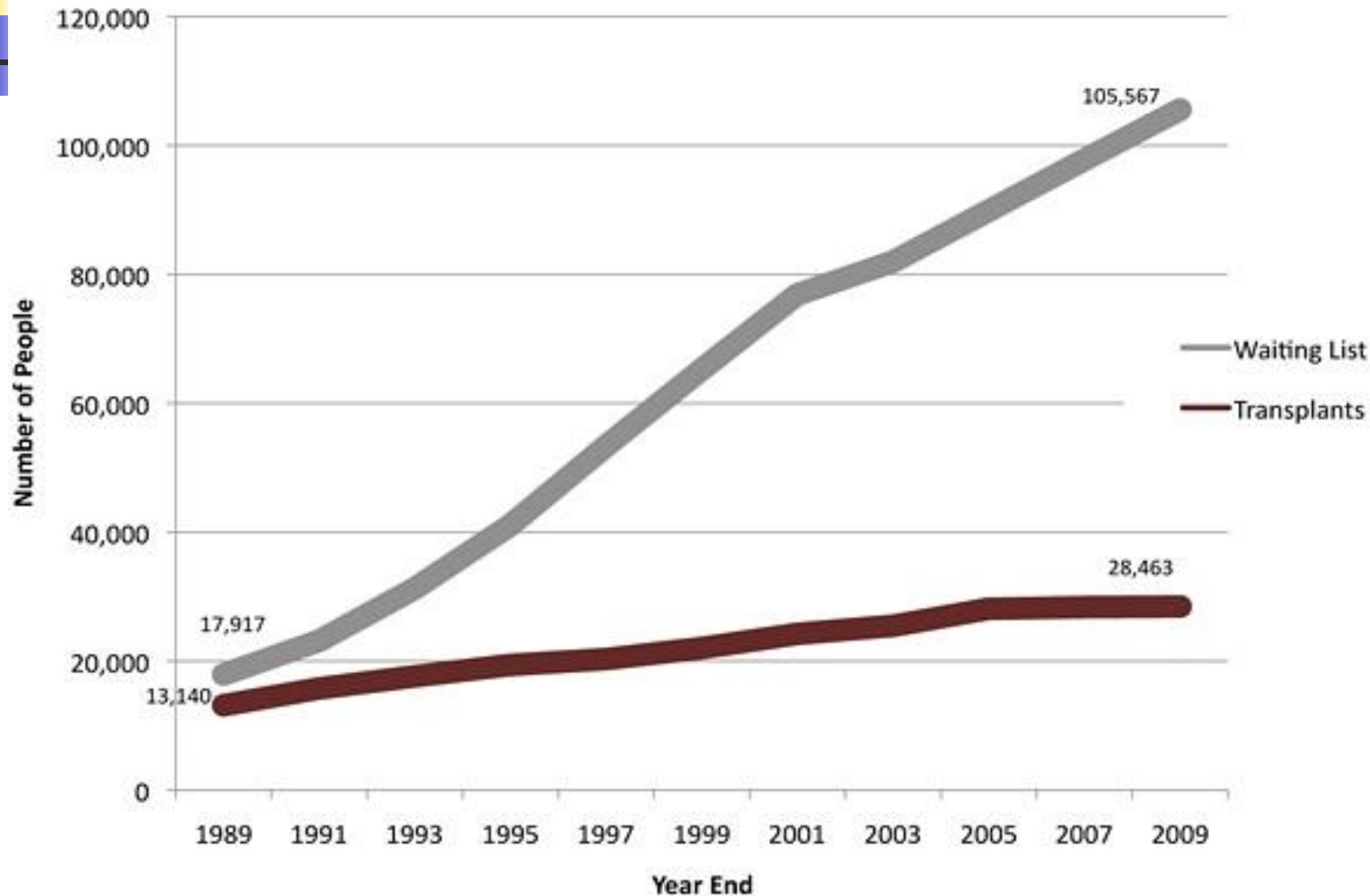


# Statistics/USA

## Annual Number of Kidney Transplants



# Statistics/general amount of transplantations, waiting list/USA





# Challenges in the branch of transplantology/Ukraine

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- **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!

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