

The Body's Waste Filter

Section 16.1 — Human Excretory System



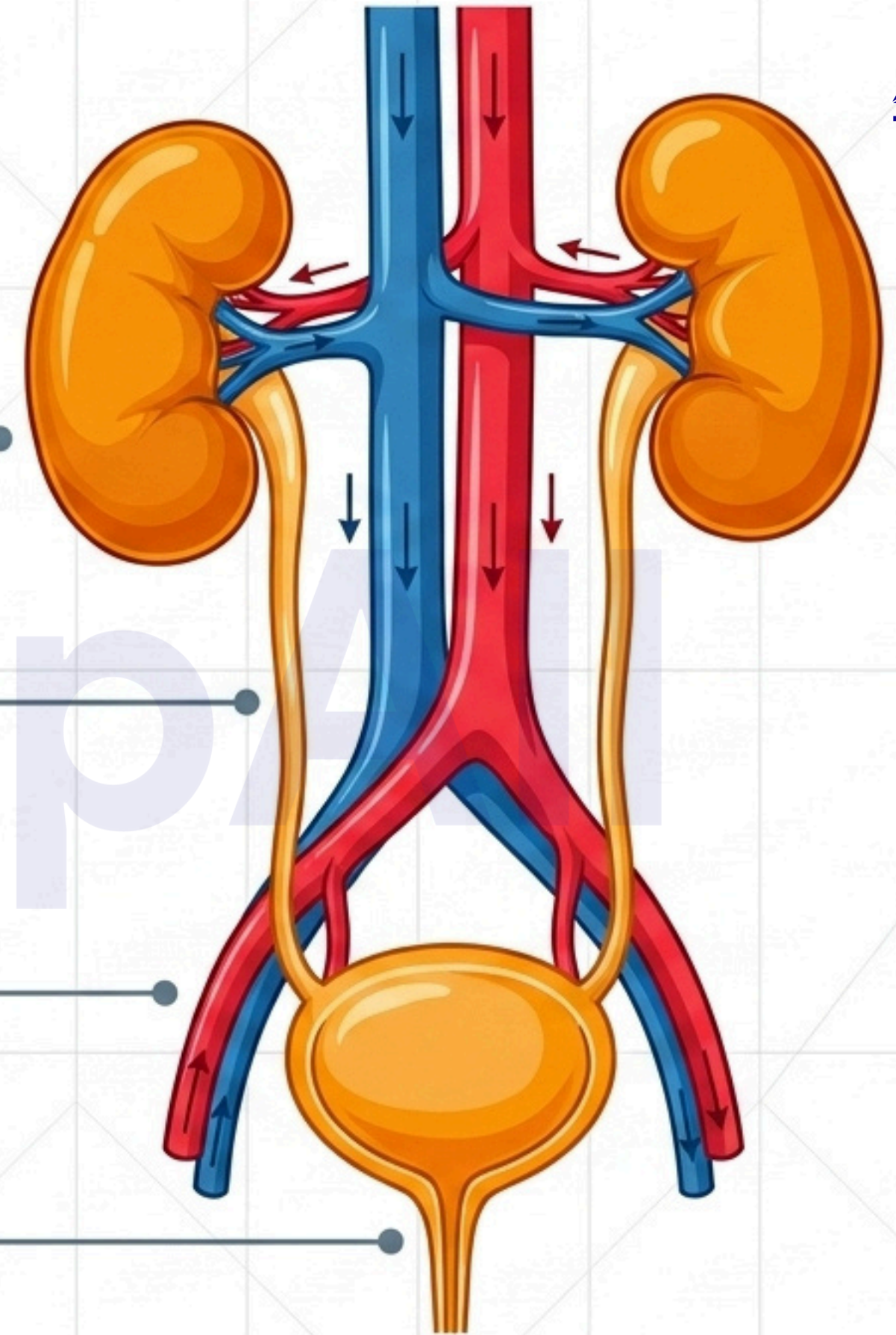
The Purification Network

Kidneys: The primary filtration engines.

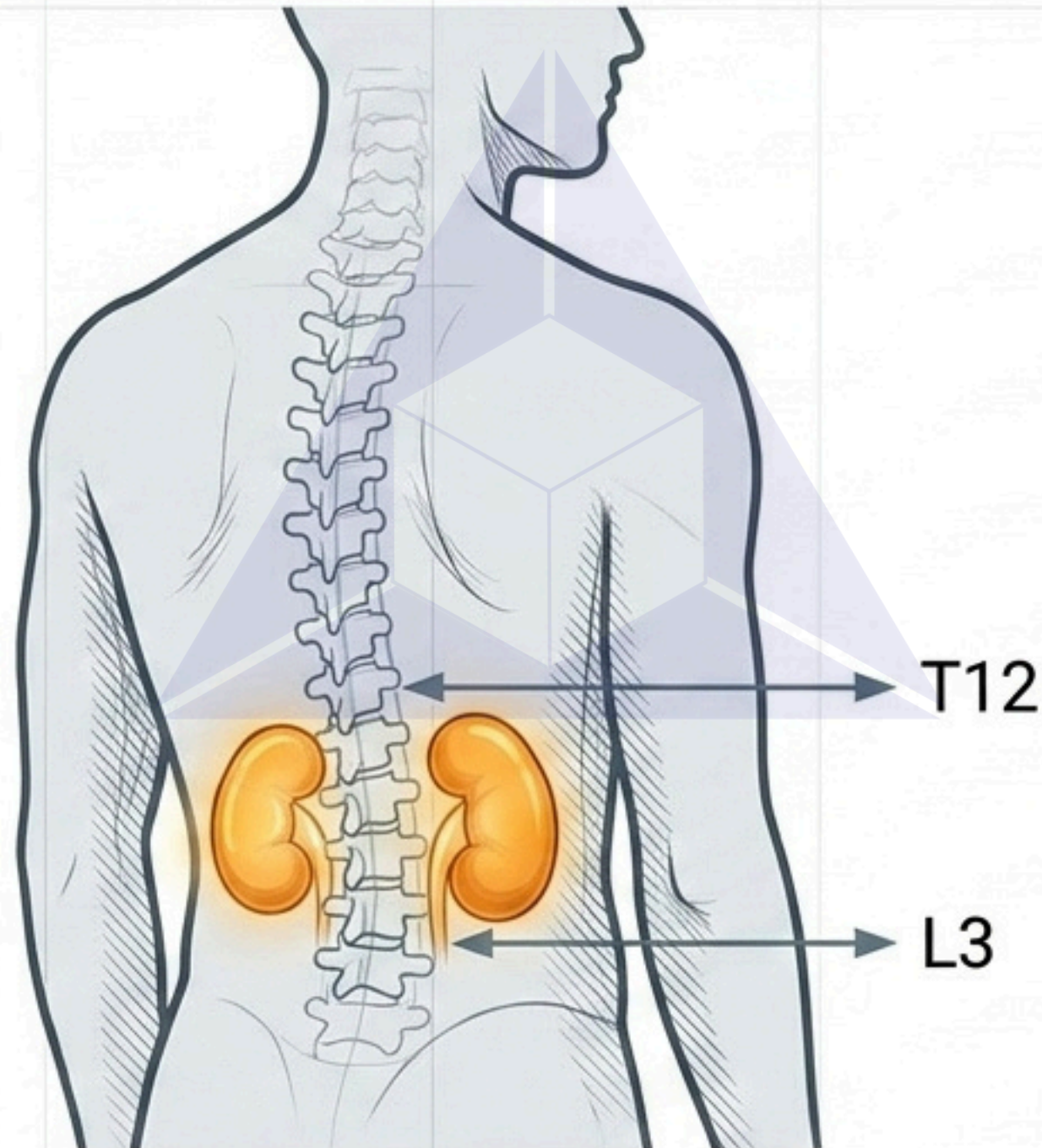
Ureters: Dual conduction tubes.

Urinary Bladder: The expandable storage reservoir.

Urethra: The elimination channel.



Kidney Profile & Location



Hardware Specs

Shape: Bean-shaped

Color: Reddish-brown

Position: Dorsal inner wall of abdominal cavity

Length

10-12 cm

Width

5-7 cm

Thickness

2-3 cm

Weight

120-170 g
(Average Adult)



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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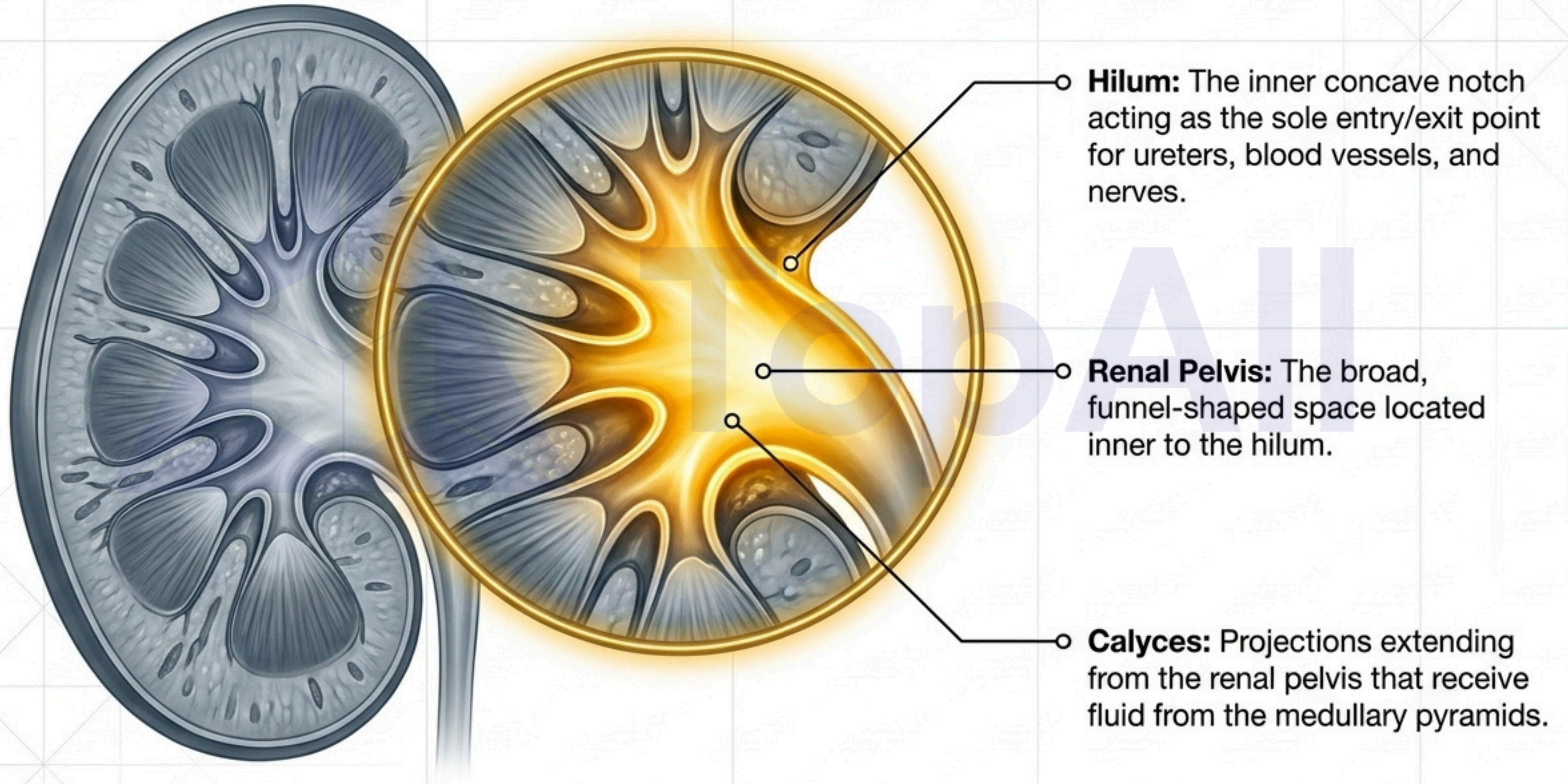
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Key Highlights

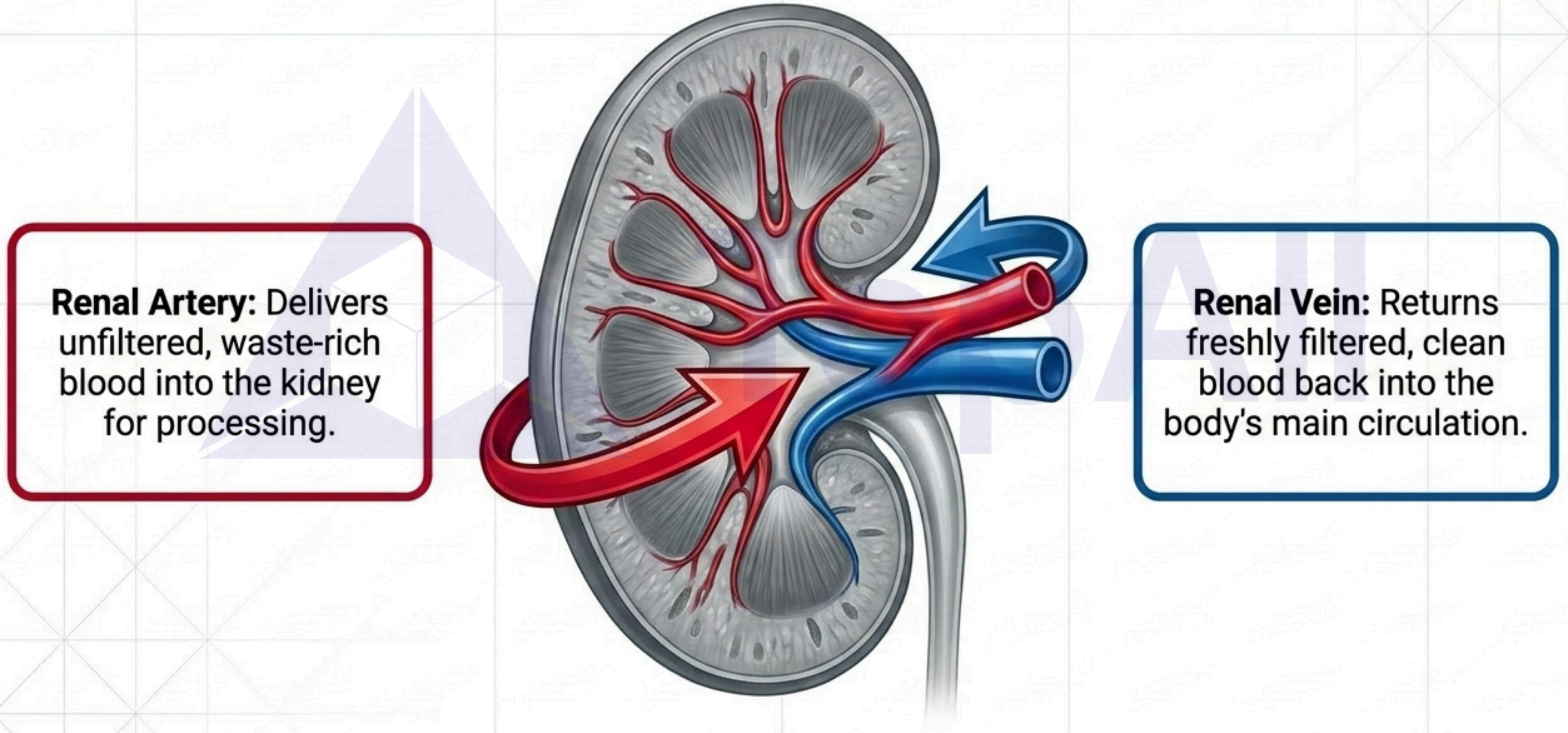
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Internal Architecture: The Collection Zone



The Dual Network: Blood Supply



The Route of Waste



Kidney
(Filter)

Ureter
(Transport)

Urinary Bladder
(Store)

Urethra
(Eliminate)

System Synthesis Matrix

Component	Primary Action	Fluid Status
 Kidneys	Active Filtration	Unfiltered Blood → Urine
 Ureters	Conduction	Urine
 Urinary Bladder	Temporary Storage	Urine
 Urethra	Regulated Excretion	Urine

The human excretory system is a highly specialized filtration network designed to continuously clean the blood, remove nitrogenous wastes, and maintain the body's delicate fluid and ionic balance.

End of Explainer — Human Excretory System



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