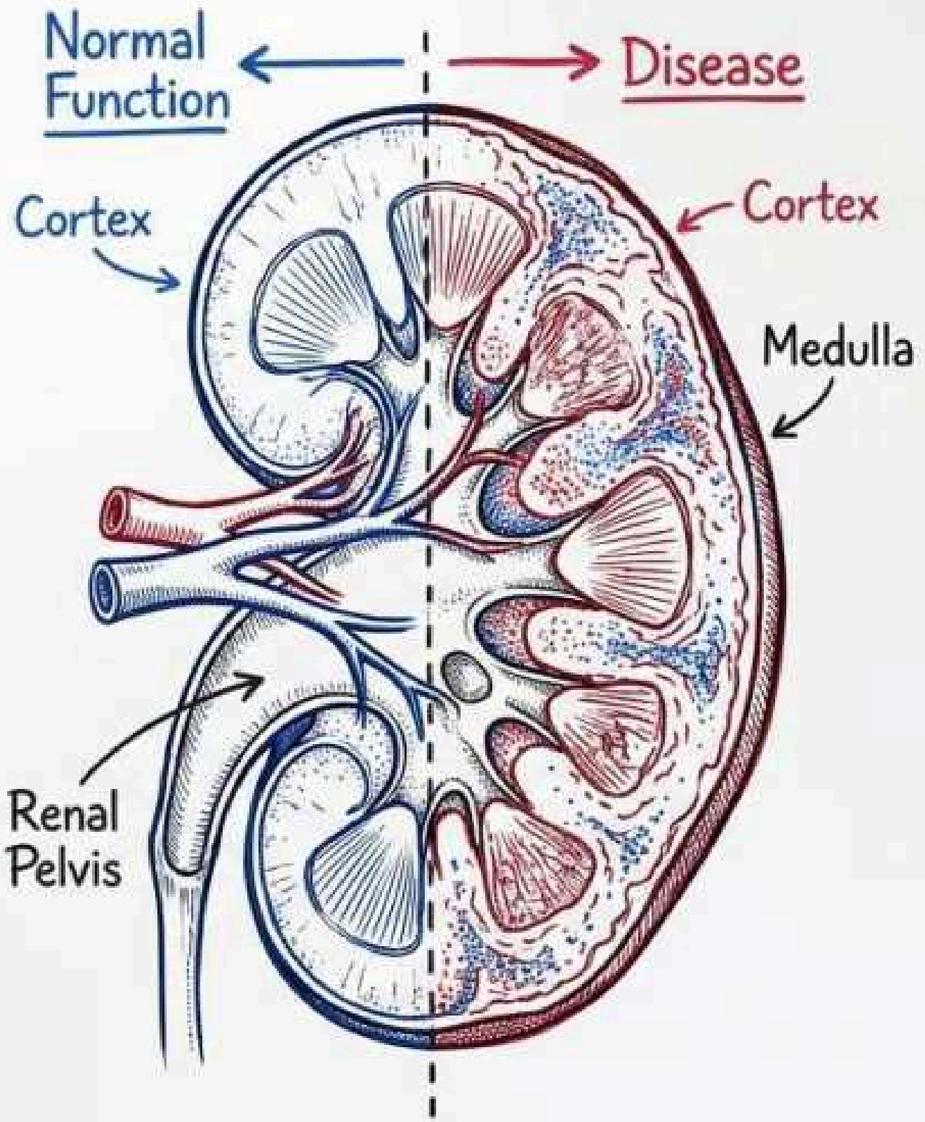
Medicine 523 B: Renal Pathophysiology

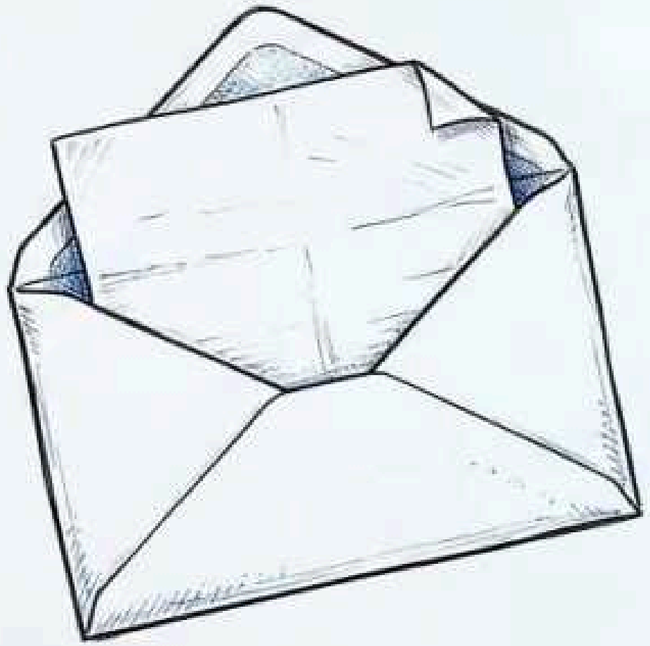
Autumn Course • Year 2 • Anderson Academy Medical School

Modeled on Harvard & MIT HST programs.



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Questions & Feedback Welcome



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The Plain Reminder

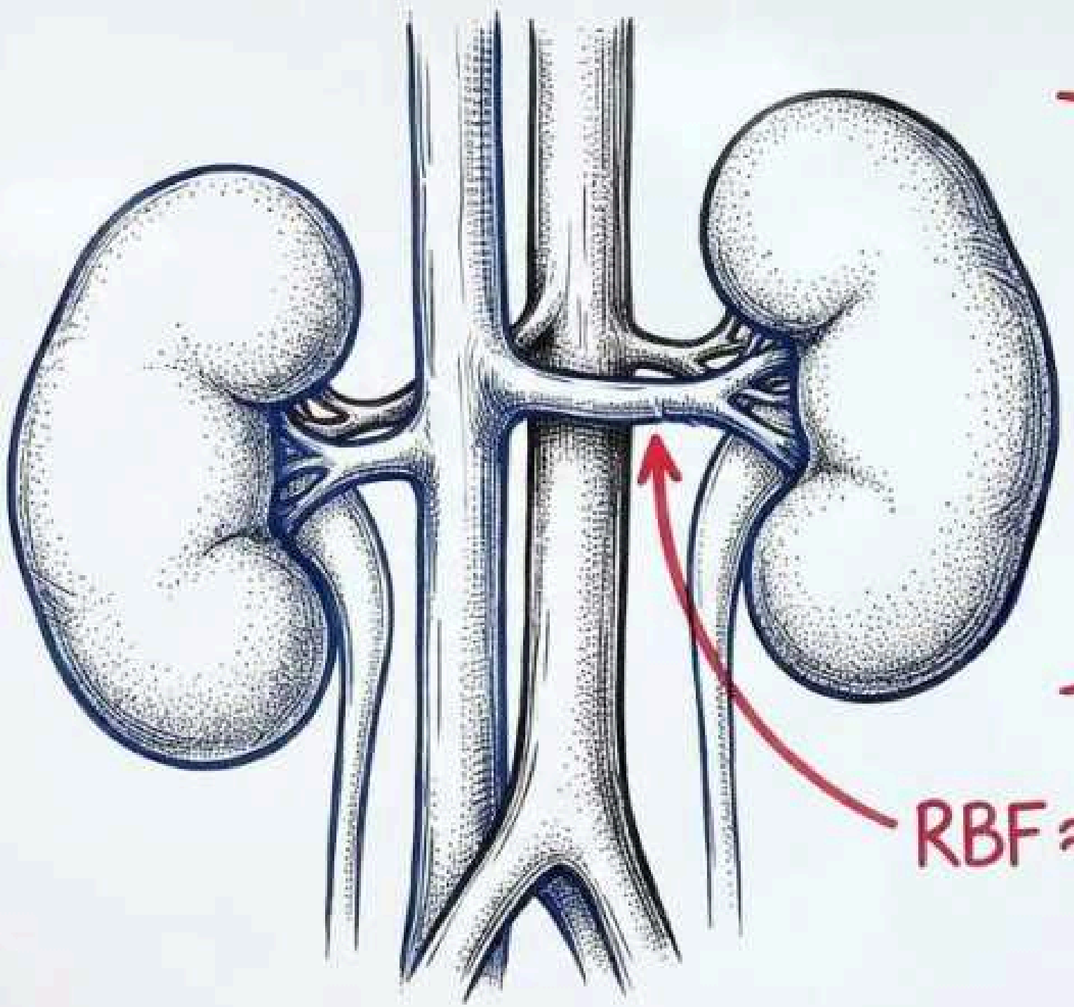
¶ 0.3



Teaches	Does NOT Teach
Medical Knowledge	Medical Training Clinical Skills Licensure Medical Advice

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¶ 0.4



< 0.5% of total body weight.

RBF ≈ 20% × CO

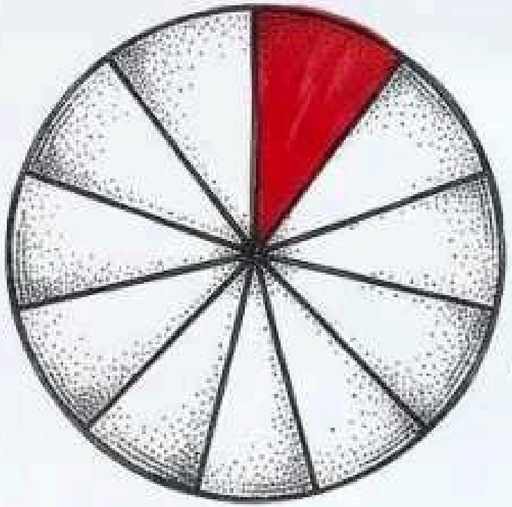
Filters entire blood plasma volume dozens of times/day.

- Maintains narrow limits (Water, Salts, Acidity)
- Removes waste

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PREVALENCE

¶ 0.5



1 in 10 adults worldwide.

Frequently silent until advanced.

CAUSAL FLOWCHART

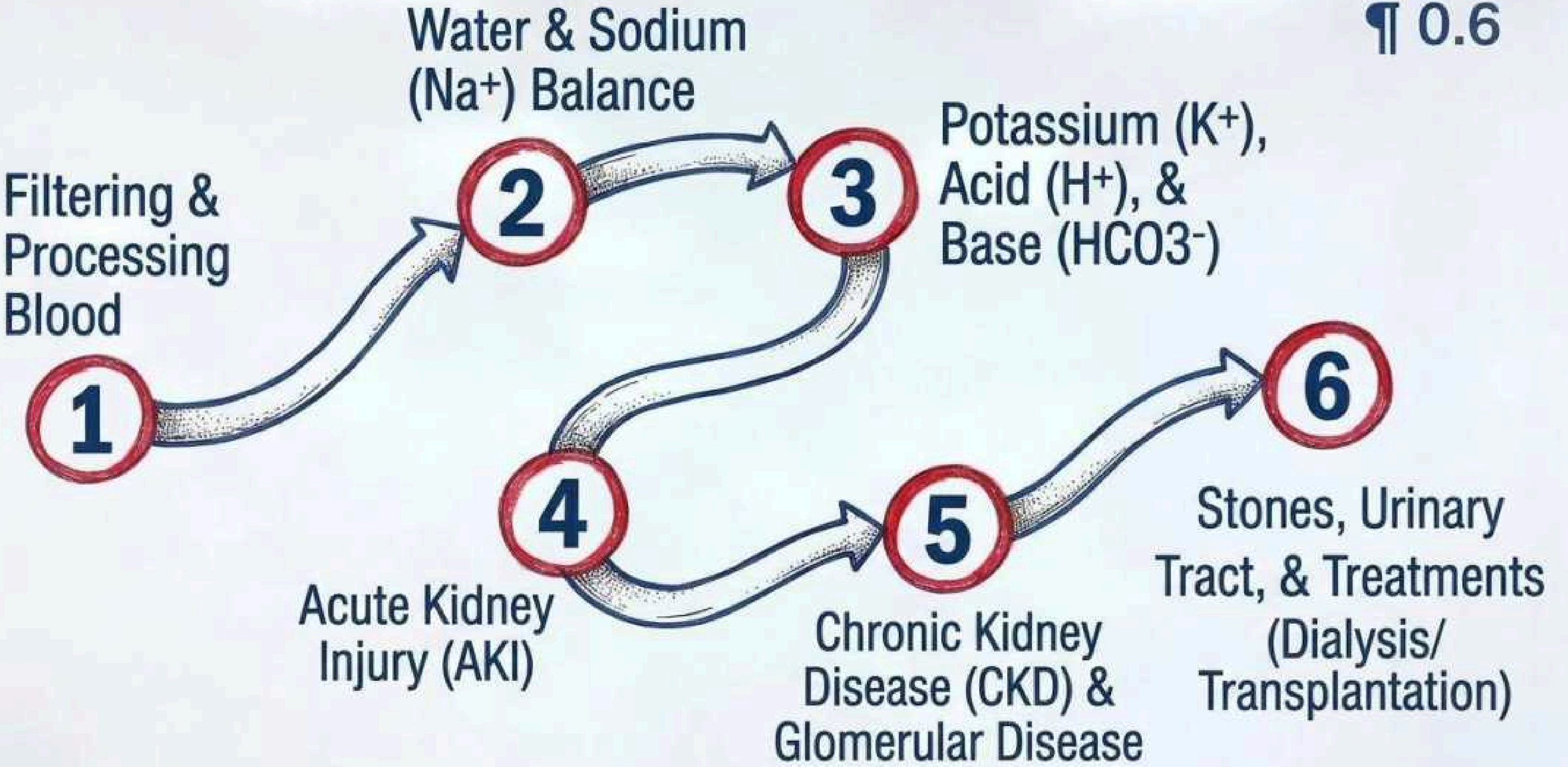
Diabetes + High Blood Pressure → Chronic Kidney Disease

↕

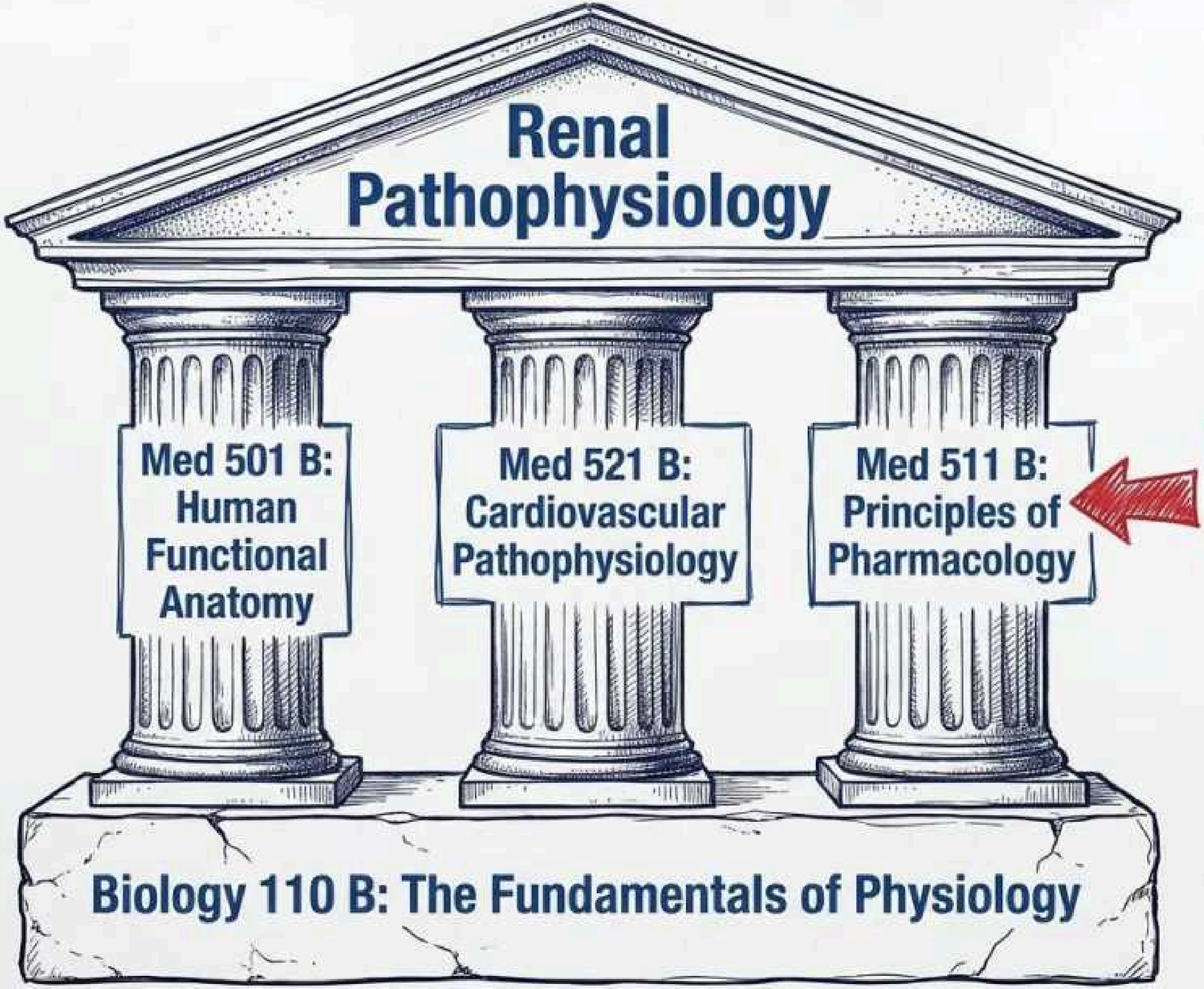
Link to Med 521 B (Cardiovascular Pathophysiology)

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¶ 0.6



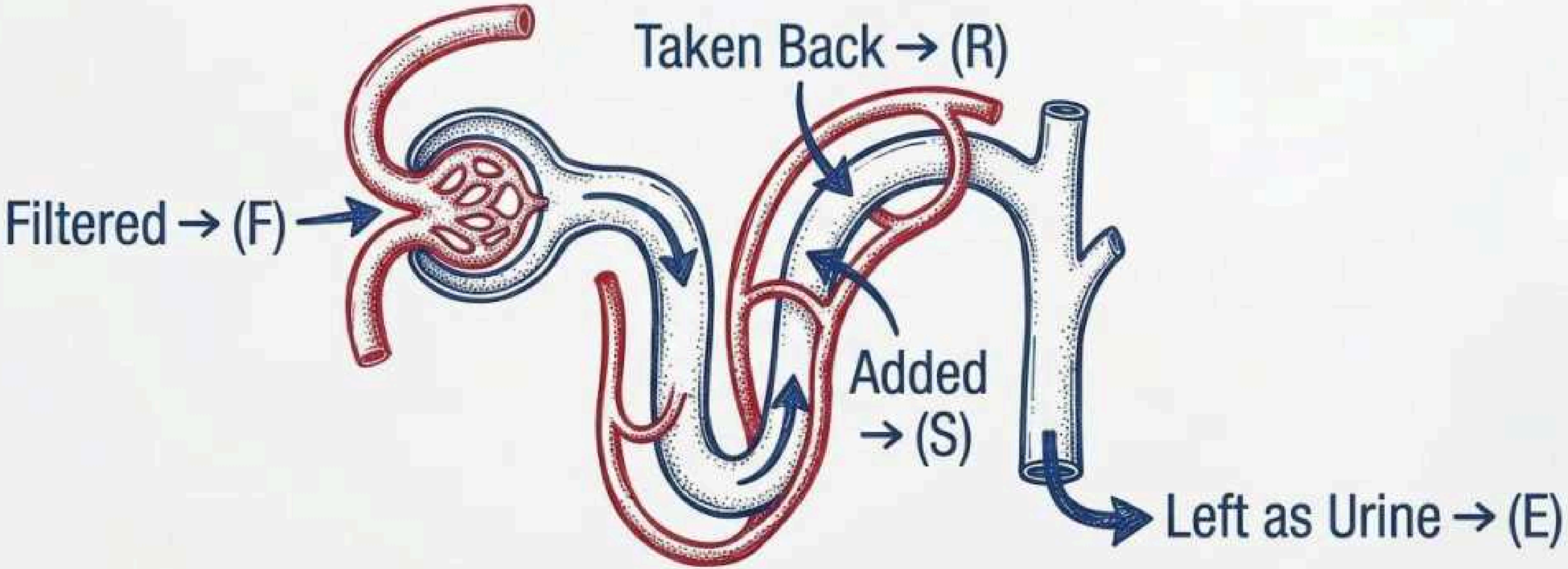
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Practical Tip: Follow the Fluid

¶ 0.8



Excretion = Filtration - Reabsorption + Secretion

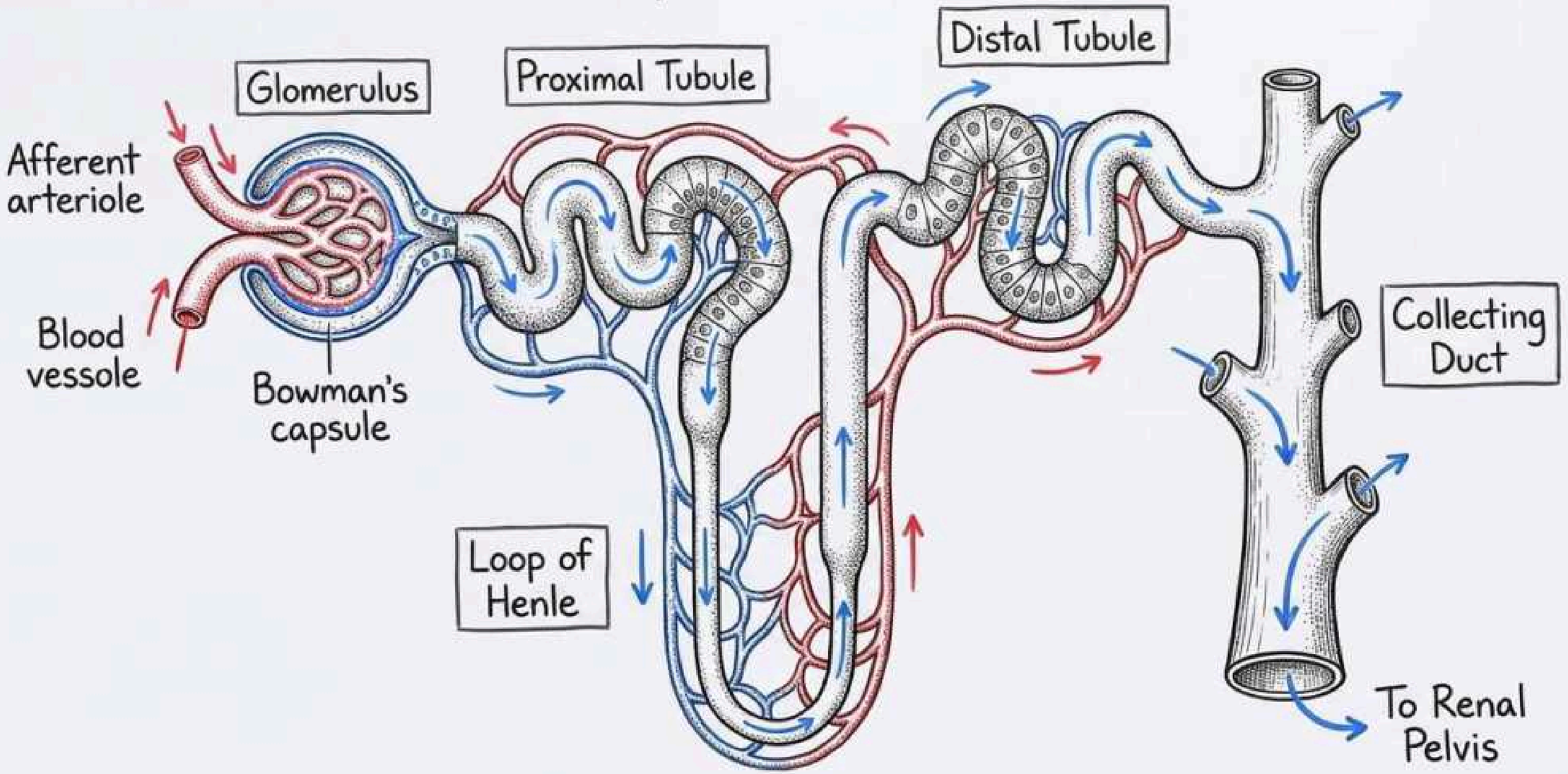
Most kidney disorders are a failure at one of these steps.

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Let us begin.

¶ 0.9

The basic functional unit: The Nephron.



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