



Medical Committee
The University of Jordan



SLIDE



SHEET

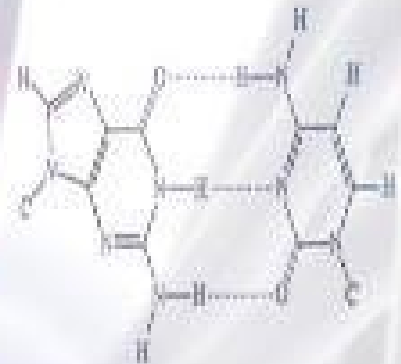


SLIDE : 21



DR.NAME: Dr Faisal

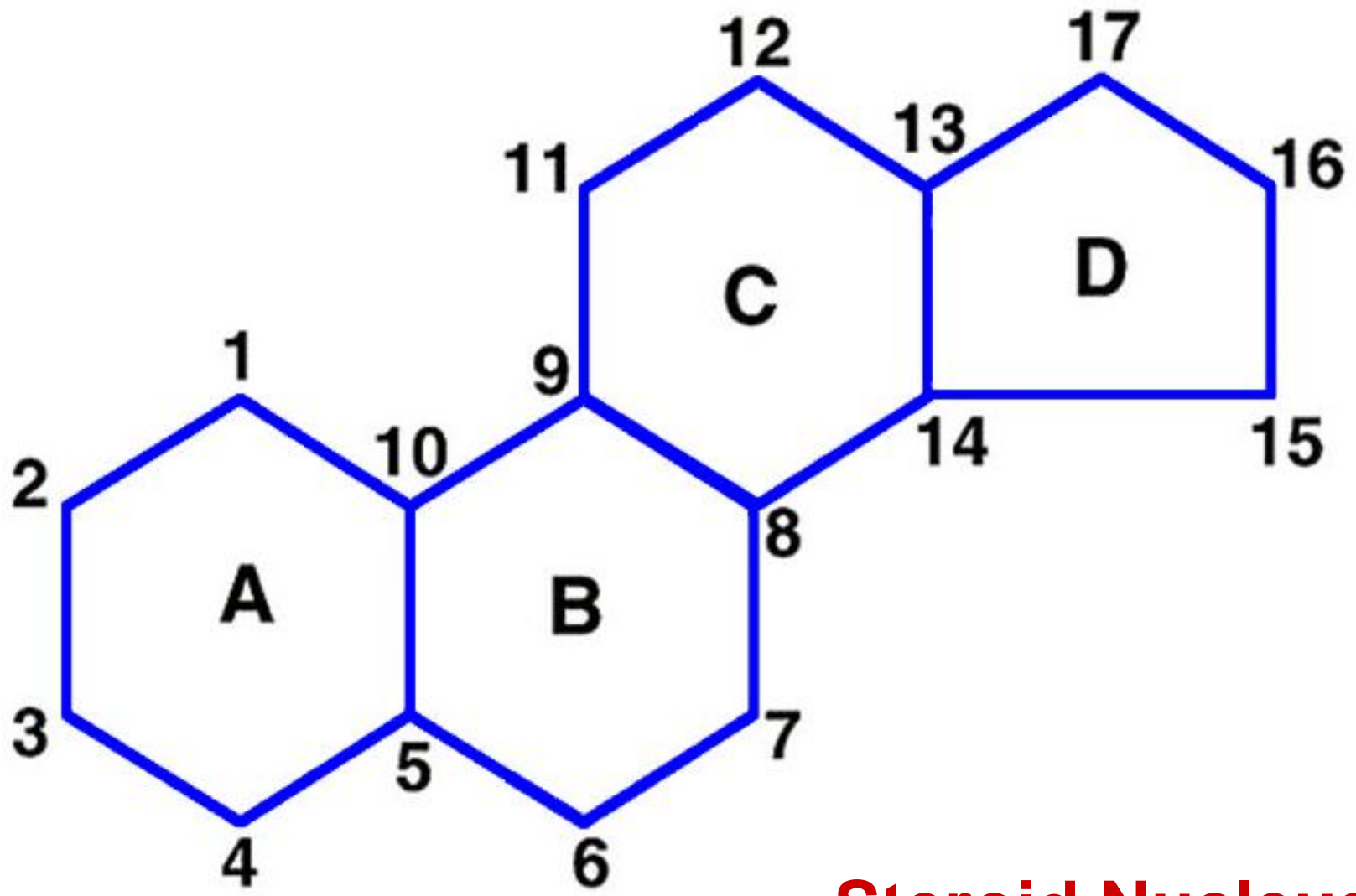
Biochemistry



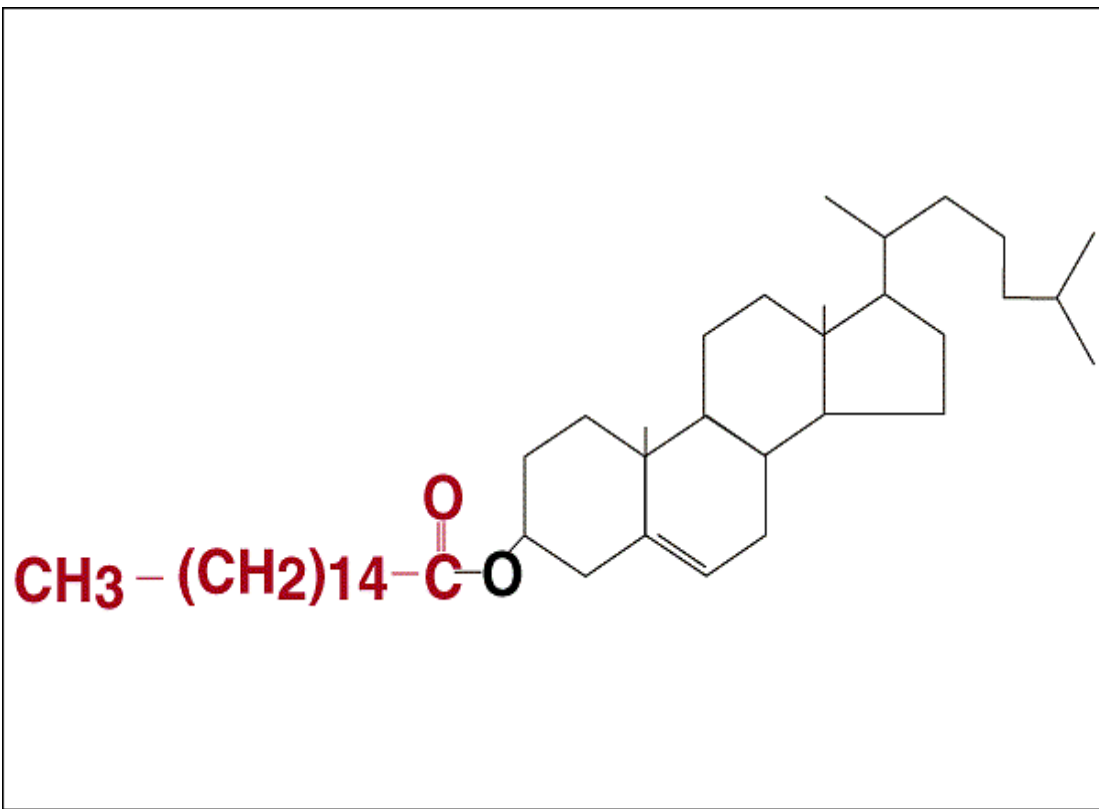
Majida Al-Foqaraa'

Cholesterol Metabolism

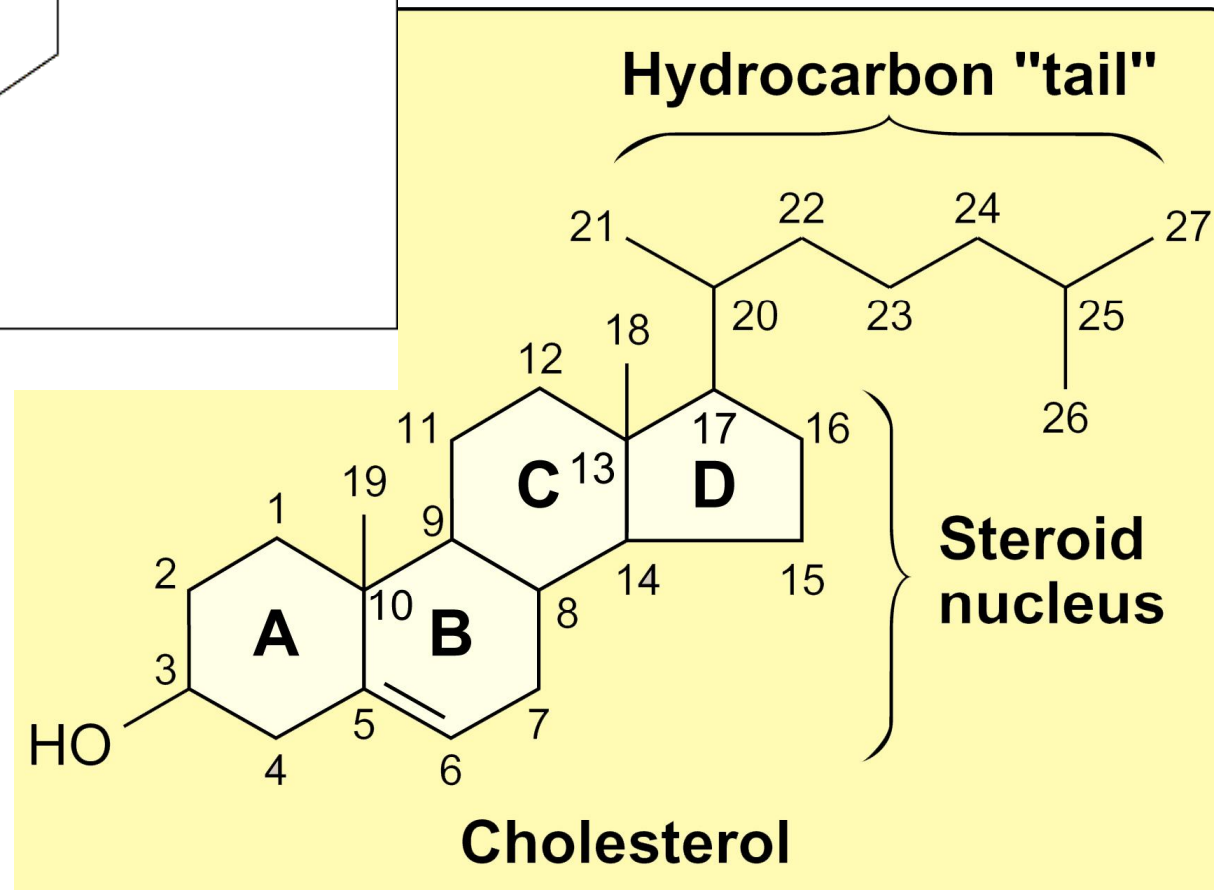
Lippincott's Illustrated Review
Chapter 18



Steroid Nucleus

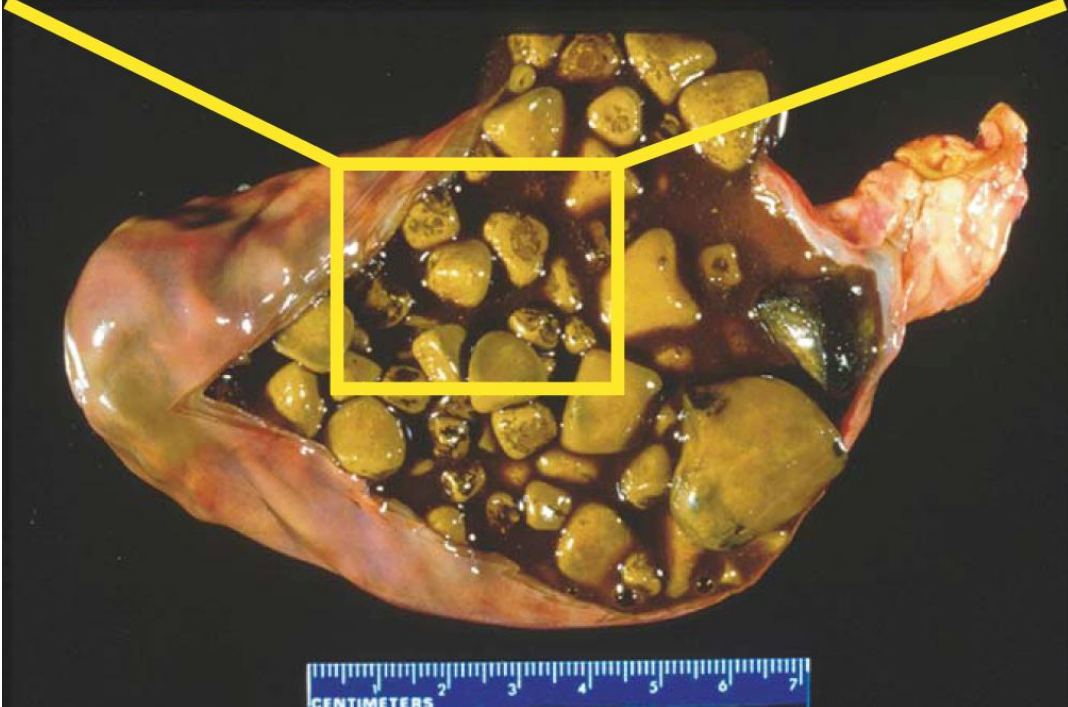


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Cholesterol was
isolated from gall
bladder stones
in 1774



Sources and Elimination of Cholesterol

Synthesis: \approx 1000 mg

Liver, Small Intestine, Adrenal Cortex ...

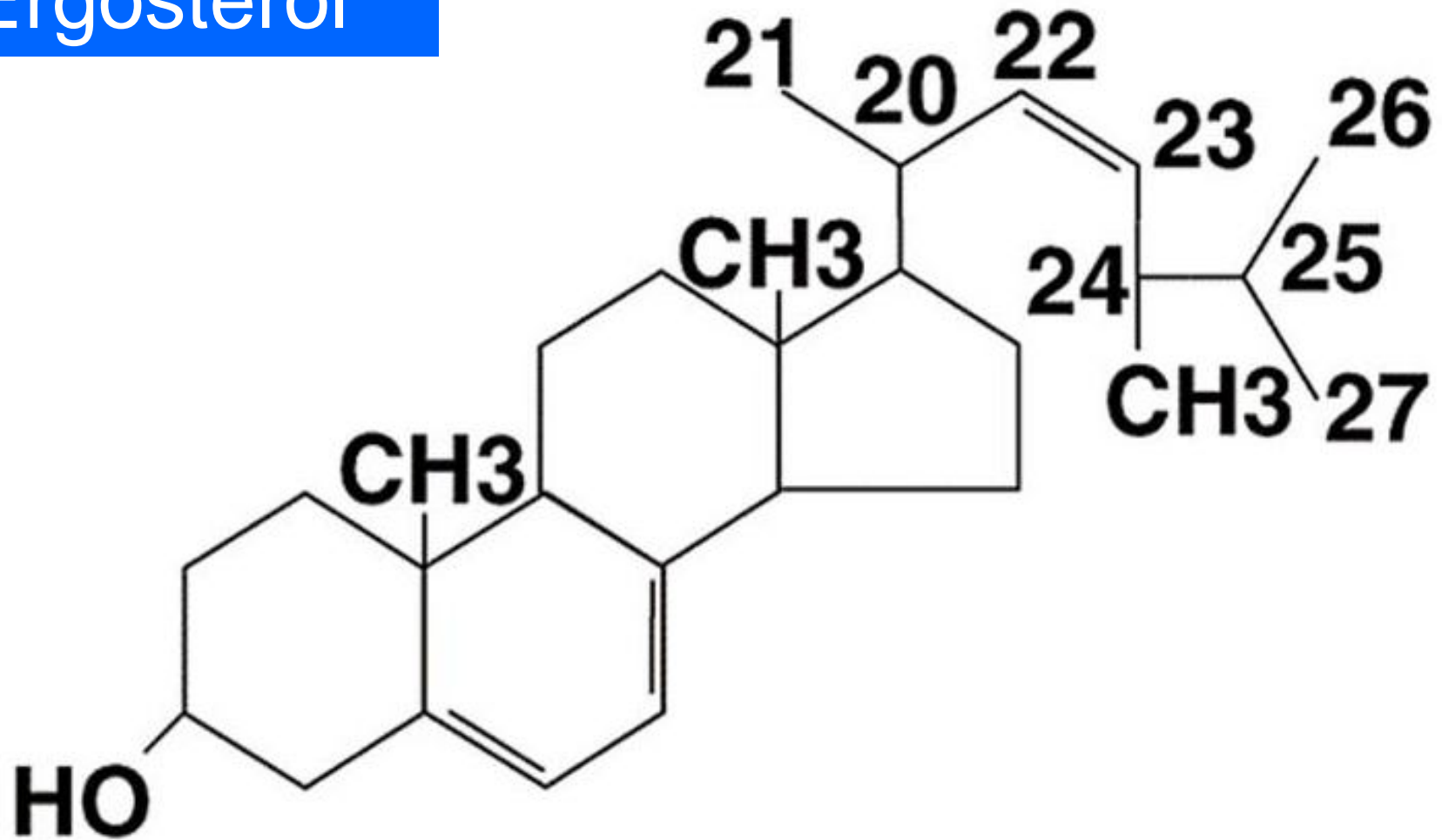
Dietary: \approx 300 mg

(Low Cholesterol Diet)

Elimination: Via the Bile

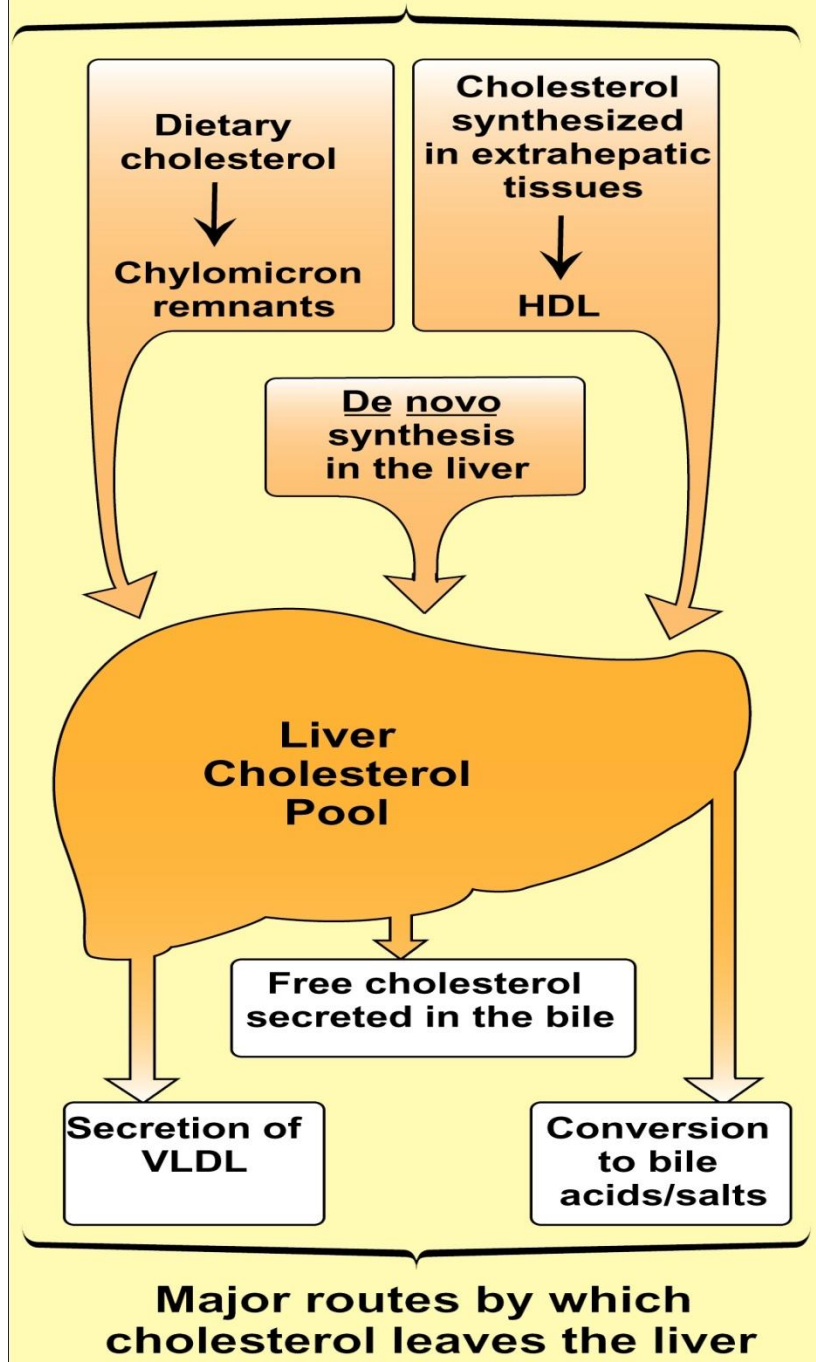
Cholesterol, Bile Salts

Ergosterol



Plant Sterols are Poorly Absorbed by Human

Major sources of liver cholesterol



Cholesterol Synthesis Requires

- Carbon Source: Acetyl CoA
- Energy: ATP
- Reducing Power: NADPH
- O₂

