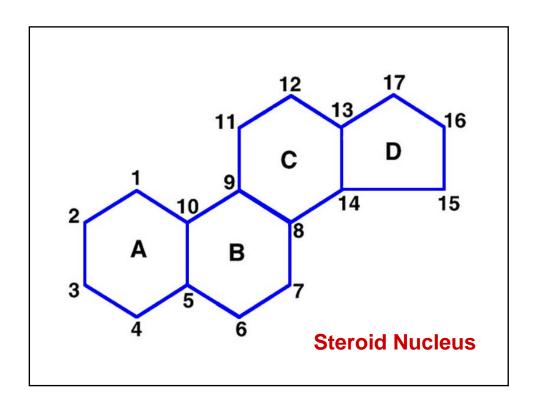
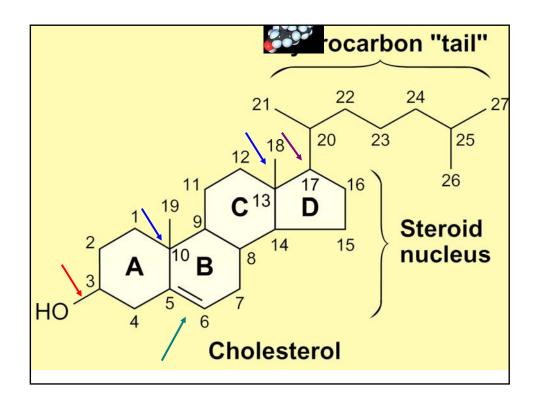
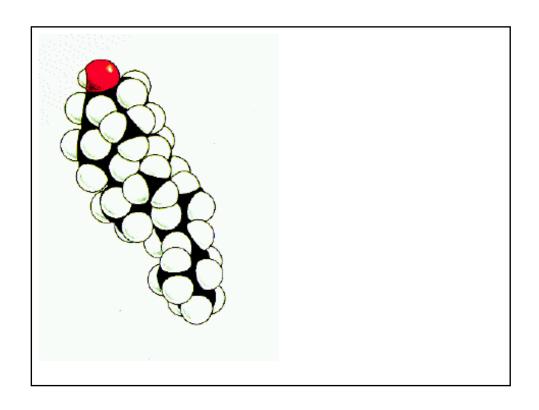
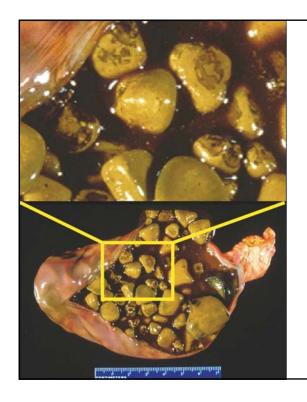
Cholesterol Metabolism

Lippincott's Illustrated Review Chapter 18









Cholesterol was isolated from gall bladder stones in 1774

Sources and Elimination of Cholesterol

Synthesis: ≈ 1000 mg

Liver, Small Intestine, Adrenal Cortex ...

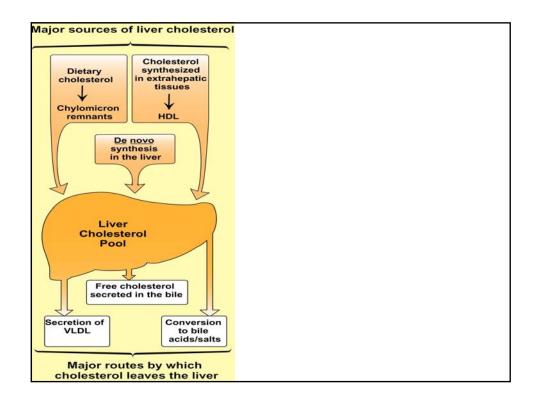
Dietary: ≈ 300 mg

(Low Cholesterol Diet)

Elimination: Via the Bile

Cholesterol, Bile Salts

 Plants manufacture phytosterols (substances chemically similar to cholesterol produced within plants), which can compete with cholesterol for reabsorption in the intestinal tract, thus potentially reducing cholesterol reabsorption.[12] When intestinal lining cells absorb phytosterols, in place of cholesterol, they usually excrete the phytosterol molecules back into the GI tract, an important protective mechanism.



Cholesterol Synthesis Requires

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

