

# Drugs for Hyperlipidemia

# Chapter 23

- I. Background
  - A. Triglycerides
  - B. Cholesterol
- II. Transport of lipids
  - A. Background
    - 1. Lipoproteins
    - 2. Components
      - a) apolipoproteins
    - 3. Differentiation
  - B. Chylomicrons
    - 1. Structure / contents
      - a. apoB-48
    - 2. Source / function
      - a) lipoprotein lipases
    - 3. Removal
  - C. VLDL
    - a. apoB-100
    - 1. Source / function
    - 2. Removal
  - D. IDL
  - E. LDL
    - 1. Source / function
    - 2. Removal
    - 3. Additional items
      - a. hypercholesterolemia
  - F. HDL
    - 1. Structure / contents
    - 2. Source / function
- III. Statins
  - A. Cholesterol synthesis
    - 1) HMG-CoA reductase
  - B. Other effects
  - C. Drugs
    - 1. atorvastatin
    - 2. simvastatin
    - 3. lovastatin
    - 4. pravastatin
    - 5. rosuvastatin

- IV. Other lipid lowering drugs
  - A. Niacin
  - B. Fibrates
    - 1. PPARs
    - 2. drugs
      - a. fenofibrate
      - b. gemfibrozil
  - C. Bile acid-binding resins
    - 1. drugs
      - a. cholestyramine
      - b. colestipol
      - c. colesevelam
  - D. Cholesterol absorption inhibitor
    - 1. ezetimibe
  - E. Omega-3 fatty acids