Pharmacotherapy II
Background

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Intersection of Various CV Diseases

Cardiovascular Diseases

CHF=Chronic Heart Failure
CHD=Coronary Heart D.
HTN=Hypertension
Smoking, Diabetes, dyslipidemia and Known RF

Prevalence of Cardiovascular Disease by Type*

Prevalence
- Greater than 80 million have some form of CVD (about 1 out of 3 Americans)

Breakdown of Prevalence
- High blood pressure- 73,600,000 (SBP>140)
- Coronary heart disease affects 16,800,000 and is cause of 1 in very 5 deaths in US
  - Myocardial Infarction - 7,900,000
  - Angina Pectoris - 9,800,000
- Stroke - 6,500,000
- Chronic heart failure 5,700,000

*AHA. Heart Disease and Stroke Statistics – 2009 update.
Lloyd-Jones Circulation Dec 15, 2008;119:e1-e161: US Census Bureau 12.29.08 = 305.5M
Cardiac Anatomy and Physiology
Robert J. Straka, Pharm.D.

Lecture Objectives:

• Review basics of the anatomy and physiology of the circulatory system

• Review functional anatomy of the heart

• Discuss the conduction system of the heart and the basis for the EKG
Cardiac Conduction System

- Sinus node
- Internodal pathways
- AV node
- Bundle of His
- Right Bundle Branch
- Bachmann's Bundle
- Left Bundle Branch
- Post. Division
- Ant. Division
- Purkinje Fibers

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Electrocardiographic Waves, Intervals, and Segments