
NSG 533--ADVANCED PATHOPHYSIOLOGY STUDY GUIDE REVIEW

Cardiovascular Pathophysiology: Coronary Heart Disease and Hypertension

- Explain the comprehensive risk factor profile (including dyslipidemia, genetic factors, traditional modifiable and non-modifiable risk factors, and novel risk factors) for coronary artery disease (CAD).
 - **Genetic Factors:**
 - Elevated LDL linked to CHD in persons with genetic forms of hypercholesterolemia
 - Decreased LDL removal related to defective or reduces number of LDL receptors
 - Familial Hypercholesterolemia (FH) develop significant atherosclerosis early on and premature CAD in the absence of other risk factors
 - If left untreated can have heart attack in 30-40s
 - **Modifiable Risk Factors:**
 - Dyslipidemia
 - Elevated LDL-C
 - Low HDL-C
 - Hypertriglyceridemia
 - Hyperhomocysteinemia
 - Smoking
 - Hypertension
 - Physical Inactivity
 - Diabetes Mellitus
 - Atherogenic Diet
 - Obesity
 - **Non-Modifiable Risk Factors:**
 - Family History & Genetic Factors:
 - Elevated LDL linked to CHD in persons with genetic forms of hypercholesterolemia
 - Decreased LDL removal related to defective or reduces number of LDL receptors
 - Familial Hypercholesterolemia (FH) develop significant atherosclerosis early on and premature CAD in the absence of other risk factors
 - If left untreated can have heart attack in 30-40s
 - Age
 - Gender: male gender or women after menopause
 - Blood type: AB highest risk, O lowest risk
 - **Novel Risk Factors**
 - Elevated lipoprotein (a)
 - Associated with atherosclerosis and thrombosis
 - At risk for premature CAD as well as Stroke
 - Genetically derived particle
 - Elevated high sensitivity C-reactive protein (hs-CRP)
 - Inflammatory marker
 - The serum marker more systemic inflammation, CRP, is now considered a major

Advanced Pathophysiology Study Guides

AW Rasmussen



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