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# 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

**SA Dillow**



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## **Table of Contents Advanced Pathophysiology Study Guides**

1. Understanding the eBook Advanced Pathophysiology Study Guides
  - The Rise of Digital Reading Advanced Pathophysiology Study Guides
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Pathophysiology Study Guides
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Advanced Pathophysiology Study Guides
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Pathophysiology Study Guides
  - Personalized Recommendations
  - Advanced Pathophysiology Study Guides User Reviews and Ratings
  - Advanced Pathophysiology Study Guides and Bestseller Lists
5. Accessing Advanced Pathophysiology Study Guides Free and Paid eBooks
  - Advanced Pathophysiology Study Guides Public Domain eBooks
  - Advanced Pathophysiology Study Guides eBook Subscription Services
  - Advanced Pathophysiology Study Guides Budget-Friendly Options

6. Navigating Advanced Pathophysiology Study Guides eBook Formats
  - ePub, PDF, MOBI, and More
  - Advanced Pathophysiology Study Guides Compatibility with Devices
  - Advanced Pathophysiology Study Guides Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Advanced Pathophysiology Study Guides
  - Highlighting and Note-Taking Advanced Pathophysiology Study Guides
  - Interactive Elements Advanced Pathophysiology Study Guides
8. Staying Engaged with Advanced Pathophysiology Study Guides
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Advanced Pathophysiology Study Guides
9. Balancing eBooks and Physical Books Advanced Pathophysiology Study Guides
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Advanced Pathophysiology Study Guides
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Advanced Pathophysiology Study Guides
  - Setting Reading Goals Advanced Pathophysiology Study Guides
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Advanced Pathophysiology Study Guides
  - Fact-Checking eBook Content of Advanced Pathophysiology Study Guides
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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