

The patient with coronary artery disease (CAD)

Krishan Soni, MD, MBA, FACC

Asst. Clinical Professor Division of Cardiology University of California, San Francisco <u>Krishan.soni@ucsf.edu</u>







Atherosclerosis: A Systemic Process Atherosclerosis can affect many vascular territories		
System	Manifestation	
Cardiac	Myocardial infarction, angina pectoris, heart failure, and coronary death	
Cerebral	Stroke, transient ischemic attack, dementia	
Peripheral	Intermittent claudication, non-healing ulcers, limb loss	
Aortic	Thoracic or abdominal aortic aneurysm, dissection, rupture, and death	































ASCVD = Atherosclerotic Cardiovascular Disease



Non-modifiable risk factors	Prevalence	Independent increase in risk
Age	13% of people 65 or older 80% of CAD deaths occur ≥ 65 years old	5% per year increase in risk after age 30
Male sex	50%	Develop CAD 10 years earlier than women
Family history of premature CAD‡		

Modifiable risk factors	Prevalence	Independent increase in risk
Dyslipidemia • High total chol • High LDL	100 million people: total > 200 40-50% have LDL over 130	2x
Low HDL High TG Smoking	26 million men (27%)	1.5-2x
Hypertension	23 million women (22%)58-65 million people (~ 30%)Only 27% adequately treated	1.5-2x
Diabetes mellitus	Increasing; about 5%	1.5x 2/3 die of CV disease

Modifiable risk factors	Prevalence	Reduction in CAD with treatment
Obesity	Varies	Via BP, chol, ?Inflammation?
Dietary factors	Varies	Via cholesterol
Thrombogenic factors	Multiple	Proven (Aspirin)
Sedentary lifestyle	Varies	Likely

Part 4: Diagnosis Objectives: 1. Describe the pre-test likelihood of CAD based on: a. presentation b. risk factors c. physical exam d. electrocardiogram 2. Describe non-invasive tests: "functional" studies a. stress types of stress b. types of imaging 3. Describe the anatomic diagnosis based on: a. coronary angiogram b. pathology

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