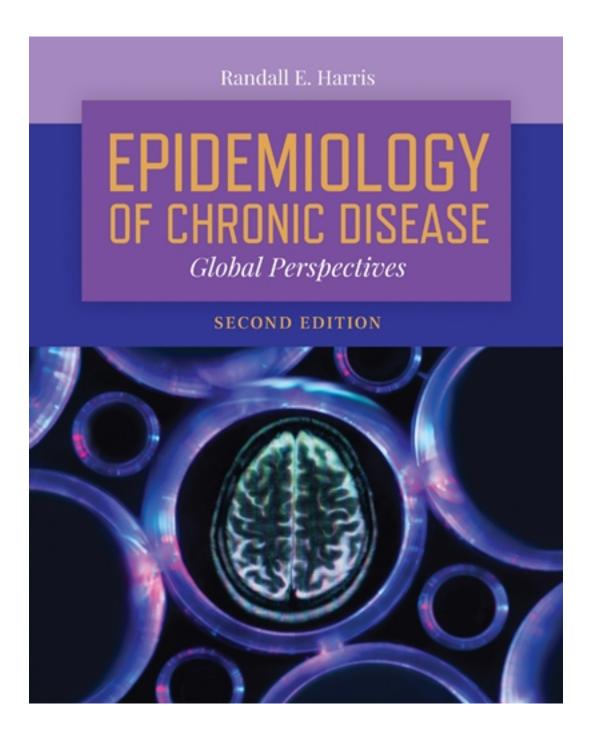
# Test Bank for Epidemiology of Chronic Diseas Global Perspectives 2nd Edition by Harris

CLICK HERE TO ACCESS COMPLETE Test Bank



# Test Bank

Chapter 2. Epidemiology of Cardiovascular Disease

**TEST BANK** 

True/False Questions

1. Cardiovascular disease (CVD) is the leading cause of death worldwide.

2. The relative mortality from CVD is approximately 31%.

3. Most CVD deaths occur in high income countries.

4. Disability Adjusted Life Years (DALY) in developed countries arise

primarily from premature death.

5. Disability Adjusted Life Years (DALY) in underdeveloped countries

arise primarily from premature death.

6. The two major forms of CVD, ischemic (coronary) heart disease and

stroke, cause approximately 25% of all deaths.

7. Since 1970, US mortality rates from coronary heart disease and stroke

have declined more than 50%.

8. Since 1970, US hospitalization rates for congestive heart failure have

quadrupled.

9. The global rise in CVD in developing nations reflects increases in key

risk factors (heightened consumption of westernized diets, declining

physical activity, and increased tobacco addiction) associated with

Epidemiology of Chronic Disease: Global Perspectives, Second Edition Randall E. Harris Test Bank

industrialization, urbanization, economic development, and market globalization.

10. Cardiovascular diseases are largely *not* preventable through public health strategies and evidence-based risk factor interventions.

## Answers to True/False Questions

- 1. T
- 2. T
- 3. F
- 4. F
- 5. T
- 6. T
- 7. T
- 8. T
- 9. T
- 10. F

Epidemiology of Chronic Disease: Global Perspectives, Second Edition Randall E. Harris Test Bank

# Multiple Choice Questions

1. The leading cause of death in the world is:

a. cancer.
b. cardiovascular disease (CVD).
c. stroke.
d. infection.
2. Global relative mortality from CVD is slightly higher than:
a. 30%.
b. 40%.
c. 50%.
d. 60%.
3. The number of annual deaths from CVD is approximately:
a. 15 million.
b. 16 million.
c. 17 million.
d. 18 million.
4. What form of CVD is <i>increasing</i> in developed nations?
a. Coronary heart disease
b. Stroke
c. Congestive heart failure

Epidemiology of Chronic Disease: Global Perspectives, Second Edition Randall E. Harris Test Bank

- d. Rheumatic heart disease
- 5. Which of the following statements are true?
  - a. CVD mortality is 40% higher in men than women.
  - b. CVD mortality is 40% higher in women than men.
  - c. CVD mortality is 38% higher in African Americans than Caucasian Americans.
  - d. CVD mortality is 38% higher in Caucasian Americans than African Americans.
  - e. Both a and c are true.
  - f. Both b and d are true.
- 6. Which of the following are risk factors for CVD?
  - a. High LDL cholesterol
  - b. Low LDL cholesterol
  - c. Low HDL cholesterol
  - d. High HDL cholesterol
  - e. Both a and c are true.
  - f. Both b and c are true.
- 7. Congestive heart failure arises when:
  - a. the heart pumps insufficient blood.
  - b. the ejection fraction falls below 50%.

Epidemiology of Chronic Disease: Global Perspectives, Second Edition Randall E. Harris Test Bank

Epidemiology of Chronic Disease: Global Perspectives, Second Edition Randall E. Harris

Test Bank

**Essay Questions** 

1. Define and discuss the various forms of cardiovascular disease.

Answer: Cardiovascular Disease (CVD) in its various forms is the leading

cause of death worldwide, ranking first in both developing and developed

nations. The total number of annual deaths due to CVD is nearly 18 million,

approximately 31% of all deaths.

Of the 17.9 million deaths attributable to CVD in 2015, 8.9 million (50%)

were due to ischemic (coronary) heart disease resulting in myocardial

infarction (heart attack); 6.3 million (35%) were due to cerebrovascular

disease (stroke), and almost 1 million (5%) were due to hypertensive disease,

which often results in congestive heart failure. The remaining deaths were

due to rheumatic heart disease and inflammatory conditions (myocarditis,

endocarditis, and pericarditis), aortic aneurysms, pulmonary emboli, and other

cardiovascular conditions.

2. Discuss international patterns of CVD mortality and morbidity.

Answer: Cardiovascular disease is the dominating cause of death and

disability throughout the industrialized world as well as in many developing

nations. Nevertheless, in developed countries such as the USA, Great Britain,

Australia/New Zealand, and western European nations, deaths from CVD

Epidemiology of Chronic Disease: Global Perspectives, Second Edition

Randall E. Harris

Test Bank

have declined dramatically in the past several decades. This declining trend is

undoubtedly due to major advances in the prevention and treatment of

hypertension, ischemic heart disease, heart failure, and related conditions that

predispose to fatal heart attacks and strokes.

Cardiovascular disease not only causes death but can also result in severe

disability, particularly among those who survive a myocardial infarction or

stroke. A measure of overall disease burden that is commonly used to

measure the impact of both death and disability is disability-adjusted life

years (DALY). The CVD burden is higher in many of the developing

nations of Asia, South America, and Africa (DALY > 5,100 per 100,000)

than in the more advanced societies of North America, Europe, and Australia

(DALY < 3,000 per 100,000). The composition of DALY also varies by

economic region. Developing nations with high DALY rates suffer more

lost years of healthy life due to premature death from CVD (60-70%),

whereas developed nations lose more years of healthy life due to disability

from CVD (50-60%).

Epidemiology of Chronic Disease: Global Perspectives, Second Edition

Kandall E. Harris

Test Bank

3. Why have CVD mortality rates declined dramatically since 1970 in

developed countries such as the USA, Canada, Western Europe, and

Australia?

Answer: In developed countries such as the USA, Great Britain,

Australia/New Zealand, and western European nations, deaths from CVD

have declined dramatically in the past several decades. This declining trend

is undoubtedly due to major advances in the prevention and treatment of

hypertension, ischemic heart disease, heart failure, and related conditions that

predispose to fatal heart attacks and strokes.

More than half of the deaths due to CVD could be prevented through health

promotion and disease prevention activities including cost-effective

healthcare policies and individual actions to reduce exposure to major risk

factors such as high blood pressure, high cholesterol, obesity, and smoking.

Despite a 50% decline in deaths from ischemic heart disease and stroke

during the past 40 years, cardiovascular disease (CVD) remains the leading

cause of death in the United States (as well as most other developed nations).

4. What are the key risk factors for CVD?

Epidemiology of Chronic Disease: Global Perspectives, Second Edition

Randall E. Harris

Test Bank

Answer: The stages in the epidemiologic transition of cardiovascular

diseases have occurred in response to shifts in risk factor profiles for specific

cardiovascular conditions. The classical risk factors for CVD include

tobacco addiction, hyperlipidemia (high low density lipoprotein cholesterol

and low high density lipoprotein cholesterol, diabetes type 2 with

hyperglycemia (increased blood glucose), hypertension, and inflammatory

conditions of the heart and blood vessels. The inflammatory biomarker, C

Reactive Protein (CRP) has also been proven to be of value in predicting the

development of CVD.

There is also convincing epidemiologic evidence that CVD risk is

increased by consuming a diet high in saturated fats, being markedly

overweight or obese, and maintaining a sedentary lifestyle with little

physical activity. These risk factors tend to cluster in populations thereby

synergistically elevating the risk to much higher levels. The time lag effect

of risk factors for CVD means that the full effect of past exposure to

behavioral risk factors, especially among children, will only be seen in the

future. Unless preventive and management efforts are embraced worldwide,

the global burden of CVD death and disease will continue to rise.

Epidemiology of Chronic Disease: Global Perspectives, Second Edition

Randall E. Harris

Test Bank

5. Why has congestive heart failure increased in the USA since 1970?

Answer: One form of CVD that has markedly increased rather than

decreased in the USA and other developed nations during the past 40 years

is congestive heart failure. This condition occurs when the heart pumps

insufficient blood to meet the metabolic demands of the body. The normal

adult range for the ejection fraction is 50-70% and congestive heart failure

is indicated when the ejection fraction falls below 50%.

Many interactive factors are responsible for the epidemic of congestive

heart failure in the United States and other developed nations. Congestive

heart failure represents the end stage of a web of pathogenic events of CVD

including ischemic/coronary heart disease, atherosclerosis, hypertension,

type 2 diabetes and inflammation. More than 81 million Americans are

living with two or more forms of CVD and as more and more patients survive

CVD and live longer, their risk of developing congestive heart failure

increases. Furthermore, the prevalence of obesity has increased in parallel

with the rising rates of congestive heart failure.

6. Why are rates of CVD higher in men than women and higher in

African Americans than Caucasian Americans?

Epidemiology of Chronic Disease: Global Perspectives, Second Edition

andall E. Harris

Test Bank

Answer: Striking gender and ethnic differences are present in the rates

of CVD and its spectrum of component conditions. Men are at

approximately 40% higher risk of dying from any form of CVD than women

and African Americans have 38% higher CVD mortality than Caucasian

Americans. These population disparities reflect not only differences in

exposure to the risk factors but also inadequacies of the health care system

for the early detection and efficacious treatment of CVD in subpopulations

of Americans.

7. What population-based strategies would you propose for the primary

prevention of CVD?

Answer: Primary prevention is the avoidance of known CVD risk factors.

For example, individuals who never initiate the smoking habit markedly

reduce their risk. Other lifestyle changes that have proven beneficial to

cardiovascular health include cessation of tobacco use, aerobic exercising

for at least thirty minutes daily, maintaining optimal body weight and

consuming a diet low in sodium, carbohydrates, saturated and total fats that

is more weighted towards unsaturated fats, fruits, vegetables, whole grains,

and omega-3 fatty acids.

Epidemiology of Chronic Disease: Global Perspectives, Second Edition

Randall E. Harris

Test Bank

Until recently, cardiovascular disease has been largely absent from the

international consciousness, overshadowed by public health concerns about

HIV/AIDS and other infectious diseases. International, national and

community programs are needed to ensure that these interventions reach the

individuals most at risk. The World Health Organization has called for a

global partnership of nationwide public health campaigns and high-risk

intervention strategies.

8. Discuss the tertiary prevention of CVD.

Answer: Individuals who have already experienced a cardiovascular event

such as a heart attack or stroke are at high risk of suffering recurrence or death.

The risk of recurrent disease can be reduced by both non-pharmaceutical

lifestyle modifications such as regular aerobic exercising and dietary changes

as well as pharmaceutical and medical intervention.