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Chapter 1 1. The secondhand smoke is also known as A. environmental tobacco smoke B. primary smoke C. cancer smoke D. none of the above
 2. The secondhand smoke is a complex mixture of gases and particles that includes which of the following? A. smoke from burning cigarettes B. smoke from burning cigars and pipe tobacco C. exhaled mainstream smoke D. all of the above
3. According to the National Toxicology Program, sidestream smoke and mainstream smoke contain "at least chemicals known to be toxic or carcinogenic" A. 2 B. 20 C. 25 D. 250
 4. In, the U.S. Office of the Surgeon General released its first statement on the public-health hazard to people suffering from coronary heart disease posed by secondhand smoke in The Health Consequences of Smoking. A. 1960 B. 1972 C. 1980 D. 1990
 Smoking cessation has been associated with reduced risk of coronary heart disease. TRUE FALSE
 6. According to the Third National Health and Nutrition Examination Survey (NHANES III), about of nonsmoking children and 37% of nonsmoking adults are exposed to secondhand smoke in the United States. A. 10% B. 20% C. 43% D. 80%
7is anacute myocardial infarction, including both "ST elevation myocardial infarction" (STEMI) and "non-ST elevation myocardial infarction" (NSTEMI). A. Acute coronary event B. Alzheimer C. Parkinson's diseases D. Dementia

8. Which of the following is alegal mandate that prohibits use of lit tobacco products in designated public or private places? A. designated smoking area B. smoking ban C. smoking restriction D. none of the above
9. Which of the following are considered as sidestream smoke?A. smoke from burning cigarettesB. smoke from burning cigarsC. smoke from burning pipe tobaccoD. all of the above
Chapter 2 10. The gas phase of secondhand smokeis consists of which of the following? A. air B. carbon dioxide and carbon monoxide C. many other chemicals including nicotine D. all of the above
11. About of secondhand smoke is composed of sidestream smoke emerging from the burning tip of the cigarette and the remainder is exhaled in mainstream smoke. A. 10% B. 20% C. 43% D. 85%
12. What is the average amount (per cigarette) of carbon monoxide present in secondhand smoke? A. 1,000μg B. 2,000μg C. 20,000μg D. 90,000μg
 13. What is the average amount (per cigarette) of nicotine present in secondhand smoke? A. 1,650μg B. 5,000μg C. 7,000μg D. 9,000μg
 14. Ambient nicotine can be measured accurately and sensitively, and cotinine can be measured in which of the following? A. saliva B. blood C. urine D. all of the above
 15. Which of the following toxicants are peculiar to tobacco smoke and are known to have adverse health effects? A. nicotine B. nicotine-derived nitrosamine (NNK) C. oxygen D. A and B only
16. Because of smoking restrictions and bans in the United States in workplaces, restaurants, and other public places there is decrease in serum cotinine concentrations in last 14 years. A. 10% B. 70% C. 90% D. 100%

 17. Data from three countries demonstrated that smoking bans in restaurants led to greater than 90% reductions in A. airborne nicotine B. oxygen C. carbon dioxide D. nitrogen
Chapter 3 18. Cigarette smoke, either mainstream or secondhand smoke, could produce cardiovascular disease by a number of interrelated modes of which of the following actions? A. oxidative stress and hyperlipidemia B. hemodyamic and autonomic effects C. endothelial dysfunction, thrombosis and inflammation D. all of the above
 19. Which of the following is subacute and chronic effect of secondhand smoke? A. vasoconstriction B. inflammation C. decrease heart rate D. none of the above
20. Cigarette smoke could affect the cardiovascular system through the, associated hemodynamic effects, or both. A. lymphatic system B. digestive system C. autonomic nervous system D. reproductive system
21. Heart rate is regulated by the interaction between the and parasympathetic nervous systems. A. lymphatic B. digestive C. sympathetic D. reproductive
 22. Smoking can have direct effects on, and those effects are thought to be mediated by actions on the sympathetic component of the autonomic nervous system. A. heart rate B. liver C. kidneys D. prostate
 23. Nicotine acts as a sympathomimetic drug in increasingwhich of the following? A. heart rate and blood pressure B. cardiac contractility C. constriction of some blood vessels D. all of the above
24. In people with coronary arterial disease, nicotine and cigarette smoke decrease A. coronary blood flow (CBF) B. inflammation C. cancer risk D. asthma risk
25. Cigarette smoking is a strong risk factor for vasospasm and for inadequacy of response to vasodilator medication.

A. renal

B. coronary C. hepatic D. cerebral
26. Endothelial dysfunction caused by cigarette smoke is one of the key early steps in the pathway to
A. diabetes B. prostate problems C. atherosclerosis D. none of the above
27. A exposure to secondhand smoke in a smoking room significantly reduced the coronary flow-velocity reserve in nonsmokers to a level similar to that seen in smokers before and after exposure to secondhand smoke. A. 3 sec B. 30 hours C. 2 hours D. 30 min
28. According to the study, interact with subendothelial connective tissue, and damage endothelial cells also play a role in plaque formation due to secondhand smoke exposure. A. platelets B. bone marrow C. insulin D. calcium
29 are cell derivatives that circulate in the blood and play a role in clot formation. A. thrombocytes B. erythrocytes C. leukocytes D. none of the above
 30. Coagulation of platelets increases thrombus formation that is responsible for which of the following? A. disrupting the coronary artery lining B. speeding progression of atherosclerotic lesions C. increasing risk of ischemic heart disease D. all of the above
31. The acute cardiovascular effects of cigarette smoke result to a substantial degree from thrombosis-related events. A. TRUE B. FALSE
 32. Smoking is associated with which of the following? A. higher polymorphonuclear (PMN) leukocyte counts B. C-reactive protein (CRP) C. fibrinogen and other inflammatory markers D. all of the above
33. Cigarette-smoking is associated with low high-density lipoprotein cholesterol (HDL-C), which is a risk factor for A. renal failure B. atherogenesis C. diabetes D. none of the above

34. Smoking is believed to exert effects on lipids, at least in part, by the sympathomimetic effects of
A. nicotine B. oxygen C. insulin D. calcium
 35. Which of the following constituents of cigarette smoke has higher cardiovascular toxicity? A. Acetaldehyde B. Acetic acid C. Nicotine D. Nitrogen oxides
36. Which of the following constituents of cigarette smoke has lower cardiovascular toxicity?A. AcetaldehydeB. CrotonaldehydeC. CadmiumD. Lead
37. The lead in cigarette smoke is a risk factor for which of the following?A. renal failureB. hypertensionC. insulin resistanceD. thrombosis
38 is a reactive component of the vapor phase of secondhand smoke and linked to cardiovascular diseases. A. Butadiene B. Nitrogen C. Oxygen D. none of the above
39. Sidestream tobacco smoke contains traces of metals including which of the following? A. cadmium B. chromium C. lead and nickel D. all of the above
40. Cadmium has been reported to be highly toxic to A. cardiovascular tissue B. bones C. erythrocytes D. none of the above
41. Nicotine in amounts delivered in cigarette smoke acts as a sympathomimetic drug in increasing which of the following? A. heart rate and blood pressure B. cardiac contractility C. constriction of some blood vessels D. all of the above
 42. Indoor particles due to secondhand smoke have been categorized as respirable, or "fine" particles that can be inhaled into the and pose health concerns. A. lungs B. bones C. throat D. cardiovascular tissue

 43. Acute cardiovascular effects of in low concentrations are mild, and most data indicate that concentrations present in secondhand smoke do not affect cardiovascular function in healthy young adults. A. carbon Monoxide B. nicotine C. lead D. cadmium
44. The pathophysiology of induction of cardiovascular disease by cigarette smoking is complex and undoubtedly involves multiple chemical agents that are present in tobacco smoke. A. TRUE B. FALSE
45. Overall, data on the pathophysiology of secondhand smoke exposure in humans, animals, and cells are consistent with a role as a potential causative trigger for A. renal failure B. acute coronary events C. brain tumors D. none of the above
Chapter 4 46. Extensive analyses of large cohorts show that the major risk factors for heart disease are which of the following? A. smoking and diabetes B. total cholesterol concentration C. hypertension D. all of the above
47. Which of the following are additional risk factors for cardiovascular disease? A. obesity B. family history of heart disease at an early age C. left ventricular hypertrophy and C-reactive protein (CRP) D. all of the above
48. The INTERHEART study examined the relationship between secondhand smoke exposure and acute A. renal failure B. prostate cancer C. myocardial infarction (MI) D. none of the above
49. The results of case–control and cohort studies carried out in multiple populations consistently indicate exposure to secondhand smoke poses about a increase in risk of coronary heart disease. A. 1-5% B. 5-7% C. 25–30% D. 60-70%
50. The excess risk is unlikely to be explained by misclassification bias, uncontrolled confounding effects, or publication bias. A. TRUE B. FALSE
Chapter 5 51. The first law in the United States requiring the labeling of cigarette packages with health warnings was passed in A. 1955 B. 1965 C. 1975 D. 1985

52. The 1969 Public Health Cigarette Smoking Act banned cigarette advertising on A. television B. radio C. internet D. A and B only
53. In which of the following year, a congressionally mandated smoking ban took an effect on all domestic airline flights of 6 hours or less? A. 1970 B. 1980 C. 1990 D. 2000
54. In 1993, which of the following city passed a ban on smoking in all restaurants? A. Los Angeles B. Dallas C. New York city D. Las Vegas
55. In 1997, president signs an executive order establishing a smoke-free environment for federal employees and all members of the public visiting federally owned facilities. A. Kennedy B. Bush C. Clinton D. Obama
56. EPA concluded that environmental tobacco smoke (ETS) is "a human lung carcinogen, responsible for approximately 3,000deaths annually in U.S. nonsmokers." A. kidney cancer B. lung cancer C. breast cancer D. thyroid cancer
57. The growing global support for reducing tobacco use and secondhand smoke exposure is evident from the Framework Convention on Tobacco Control. A. World Health Organization (WHO) B. EPA C. NASA D. CDC
58. According to WHO report on the Global Tobacco Epidemic, 2008—The MPOWER Package, more than 8 million people a year will die from tobacco use by year A. 2020 B. 2025 C. 2030 D. 2070
59. All the epidemiologic studies being reviewed should be evaluated in light of the amount of contextual data that are taken into account, including measurements both before and after bans and measurements comparing locales with and without bans. A. TRUE B. FALSE
Chapter 6 60. Which of the following are addressed from key studies by the committee in this article? A. The association between secondhand-smoke exposure and acute coronary events

B. The association between smoking bans and acute coronary events C. Diabetes and life styles

D. A and B only
61enacted and enforced legislation requiring smoke free workplaces and public places for the period June 5-December 3, 2002. A. Dallas, Texas B. Helena, Montana C. Las Vegas, Nevada D. Tampa, Florida
62. The study was done on the effect of the smoking-ban legislation on for acute myocardial infarction (MI) in Helena, Montana. A. hospital admissions B. lung cancer C. diabetes outcomes D. asthma cases
63. On January 10, 2005, implemented a nationwide smoking ban in all indoor public places, including offices, retail shops, cafés, bars, restaurants, and discotheques. A. India B. Greece C. Italy D. China
64. The city of Pueblo, Colorado, implemented a smoking ordinance, effective July 1,, that prohibited smoking in workplaces and all public buildings. A. 2000 B. 2001 C. 2003 D. 2006
65. According to the data from Pueblo, Colorado study, hospitalizations for acute myocardial infarction (MI) after smoking ban. A. increased B. decreased C. no change D. none of the above
66. Monroe County, Indiana, implemented a ban on smoking in all restaurants, retail stores, and workplaces effective August 1, 2003. A. TRUE B. FALSE
67. The committee was able to find any published information on decreased concentrations of secondhand- smoke components or compliance with the Monroe County ban. A. TRUE B. FALSE
68. The city of Bowling Green, Ohio, implemented a clean-indoor-air ordinance in March 2002 that banned smoking in all public places in the city EXCEPT: A. bars B. restaurants with bars in isolated areas C. bowling alleys D. all of the above
69. On July 24, 2003, New York implemented a ban on smoking in all workplaces, including restaurants, bars, and gaming establishments. A. citywide B. countywide C. statewide

D. none of the above
70 measured indoor-air quality in hospitality venues in western New York before and after implementation of the 2003 ban. A. CDC B. EPA C. FDA D. AHA
71. Saskatoon, Saskatchewan, Canada implemented a smoking ban on July 1, A. 2000 B. 2001 C. 2004 D. 2006
72. Smoking prevalence in Saskatoon decreased from 24.1% in 2003 to in 2005 but was unchanged in the province of Saskatchewan after the ban. A. 18.2% B. 5% C. 3% D. 1%
 73. Scotland prohibited smoking in March 2006 in enclosed public places and workplaces including bars, restaurants, and cafes EXCEPT: A. residential accommodation B. designated rooms in hotels C. care homes, hospices and psychiatric units D. all of the above
74. In Scotland study, the number of never-smokers who reported no exposure to smoke increased from 57% before the ban to after implementation. A. 58% B. 60% C. 78% D. 95%
75. The number of admissions for acute coronary syndrome decreased by 17% in Scotland and only a 4% reduction occurred during the same period in England where no ban was in place. A. TRUE B. FALSE
Chapter 7 76. Which of the following are some of the limitations and sources of uncertainty in key studies? A. potential for publication bias B. use of less-than-perfect comparison groups C. lack of closed study populations D. all of the above
 77. Which of the following are some of the characteristics in smoking-ban study design? A. Study population B. Smoking-ban intervention C. Exposure assessment and Outcome D. all of the above
 78. Which of the following is research challenge for investigators in smoking-ban intervention? A. control over terms or timing of smoking-ban legislation B. implementation C. enforcement D. all of the above

79. Which of the following is difficult to establish because intervention does not occur at clearly defined time (because of other activities concurrent with smoking ban)? A. Time between implementation and effect B. Smoking-ban intervention C. Exposure assessment and Outcome D. all of the above
80. The key studies discussed in this report are of necessity and they are observational or surveillance studies that looked at the effects of a smoking ban on hospital outcomes. A. nonexperimental B. experimental C. lab based D. none of the above
81. The differences in the limit the ability to quantitatively compare the changes in risk across the studies and, in some cases, limit the confidence in those studies. A. experimental group B. labgroup C. study populations D. none of the above
82 group is used to compare acute cardiovascular events in a given population before and during smoking bans. A. internal control B. experimental C. lab based D. external control
83. Some of the study selected group from an area that did not implement a ban, but otherwise was similar to the population where the intervention occurred. A. internal control B. experimental C. lab based D. external control
84. In order to do an exposure assessment, which of the following must be considered? A. effects of smoking bans B. effects of decreases in secondhand-smoke exposure C. diabetes and life styles D. A and B only
85. After a smoking ban is implemented, many smokers quit or decrease the number of cigarettes they smoke. A. TRUE B. FALSE
86. Which of the following from acute coronary events should be used as outcomes in considering the effect of a smoking ban? A. Morbidity B. Mortality C. Animal testing D. A and B only
87 is the most common analytic approaches that divide an admission rate after implementation of a smoking ban by the admission rate before the ban. A. Estimating rate ratios B. Graphs C. Charts

in

D. Tables & Figures
88. The committee constructed a data set for smoking ban by using Medicare billing claims data for a population of A. children B. young adults C. elderly people D. teenagers
89. The 11 studies reviewed in this chapter were observational studies that used different analyses and showed decreases in the rate of acute MI after implementation of eight smoking bans. A. TRUE B. FALSE
90. The strongest data on reduction in secondhand smoke and a decrease in acute cardiovascular events in non smoker came from which of the following? A. Monroe, Indiana B. Scotland C. Animal testing D. A and B only
Chapter 8 91. To determine the effect of changes in exposure to secondhand smoke it is necessary to quantify changes in studies. A. epidemiologic B. economical C. psychological D. sociological
92. Airborne concentration of is a specific tracer for secondhand smoke. A. oxygen B. nicotine C. lead D. cadmium
93. The concentration of cotinine in which of the following is a specific indicator of integrated exposure to secondhand smoke? A. saliva B. serum C. urine D. all of the above
94. Airborne nicotine and Particulate matter (PM) concentrations in regulated venues such as workplaces, bars, and restaurants decreased by more than in most studies. A. 8% B. 18% C. 28% D. 80%
95. Experimental studies in humans, animals, and cell cultures have demonstrated effects of secondhand smoke and/or its components on the cardiovascular system. A. TRUE B. FALSE
96. Studies have yielded sufficient evidence to support an inference that acute exposure to secondhand smoke induces which of the following? A. endothelial dysfunction and inflammation B. increases thrombosis C. potentially affects plaque stability adversely

D. all of the above
97. Which of the following is a major constituent of secondhand smoke and coronary heart disease? A. oxygen B. particulate matter (PM) C. diet D. not exercising
98. Studies that include assessments of exposure to secondhand smoke cannot necessarily be compared with each other unless the survey instruments were similar. A. self-reported B. observational C. written D. sociological
99. Epidemiologic studies using serum cotinine concentration as a biomarker of overall exposure to secondhand smoke indicated that the relative risk (RR) of coronary heart disease associated with secondhand smoke is even greater than those estimates. A. TRUE B. FALSE
100 key epidemiologic studies evaluated the effects of eight smoking bans on the incidence of acute coronary events. A. 5 B. 11 C. 20 D. 45
101. The decreases in acute MIs in the 11 studies ranged from about, depending on characteristics of the study, including the method of statistical analysis. A. 1 to 5% B. 5 to 6% C. 6 to 47% D. 100%
102. The committee considered the plausibility of a causal relationship between a decrease in secondhand-smoke exposure and a decrease in the incidence of acute MI. A. biologic B. observational C. written D. sociological
103. The plausibility of the of the effect seen in the key epidemiologic studies after implementation of smoking bans by the committee. A. biologic B. observational C. magnitude D. sociological
104. The committee examined which of the following relationships?A. secondhand-smoke exposure and cardiovascular diseaseB. secondhand-smoke exposure and acute coronary eventsC. smoking bans and acute coronary eventsD. all of the above
105. Taking all that evidence together, the committee concurs with the conclusions in the 2006 surgeon general's report that "the evidence is sufficient to infer a causal relationship between exposure to

secondhand smoke and increased risks of coronary heart disease morbidity and mortality among both men

and women."

A. TRUE B. FALSE	
106. Studies showed reductions in the of acute coronary events in nonsmokers when secondhand-smoke exposure was decreased after implementation of the bans. A. tumor B. relative risk (RR) C. cancer D. stroke	
107. The effect seen after implementation of smoking bans is consistent with data from the INTERHEAR study, a case-control study of 15,152 cases of first acute MI in 262 centers in countries. A. 52 B. 90 C. 100 D. 120	.Т
108. The indirect evidence obtained from studies of ambient PM supports the notion that exposure to PN present in secondhand smoke could trigger acute coronary events or induce arrhythmogenesis in a pers with a vulnerable A. hepatitis B. pancreatitis C. myocardium D. iron deficiency	
109. The effectiveness of a smoking ban depends on which of the following?A. societal actions that implement and enforce the banB. smoke reduction in homesC. smoke reduction in cars and elsewhereD. all of the above	
 110. Which of the following factors are likely to influence the effect of a smoking ban on the incidence a prevalence of acute coronary events in a population? A. age, sex and diet B. background risk factors C. environmental factors D. all of the above 	ınd
111. The committee suggests that future research should examine the of environmental chemic including those in secondhand smoke. A. cardiotoxicity B. elements C. components D. formula	als
112. A better understanding of the factors that promote and how they are influenced by tobacco smoke and PM would provide insight into the mechanisms underlying the cardiovascular effects of secondhand smoke. A. tumor B. plaque rupture C. cancer D. stroke	
113. A database that captures all cardiovascular end points would facilitate future epidemiologic studies by allowing the tracking of trends and identification of high-risk populations at a more granular I A. citywide B. countywide C. national D. statewide	level

114. There is no evidence that a relatively brief exposure to secondhand smoke can precipitate an acute coronary event. A. direct B. indirect C. stochastic D. non-stochastic
115. The key intervention studies that have evaluated the effects of indoor smoking bans consistently have shown a decreased risk of A. cirrhosis B. heart attack C. cancer D. tumor
 116. Which of the following are some of the weaknesses of the published population-based studies of the risk of MI after implementation of smoking bans? A. use of a small study sample B. lack of exposure-assessment criteria and measurements C. differences between control and intervention groups D. all of the above
 117. Which of the following are other risk factors for acute coronary events? A. obesity B. diabetes C. age D. all of the above
118. The committee found a lack of a system for surveillance of the prevalence of cardiovascular disease and of the incidence of acute coronary events in A. China B. India C. United States D. Mexico
119. Although some national databases and surveys include cardiovascular end points, a national database that tracks hospital admission rates and deaths from acute coronary events, similar to the database for cancer, would improve epidemiologic studies. A. PACS B. Surveillance, Epidemiology and End Results (SEER) C. HIS D. RIS
120. Additional research is necessary to develop reliable biomarkers of early effects on plaque vulnerability to rupture and to improve the design of of secondhand smoke that examine effects of exposure on plaque stability. A. pathophysiologic studies B. demographic studies C. economical studies D. non-smoker study