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Exercise 1:

B

C

A

Exercise 2:

Incidence of prostate cancer:

20,734 / 13,963,753 = 0.00148 => 148 cases per 100,000 population => 148 x 10^{-5}

Incidence of breast cancer:

133 cases per 100,000 population

Exercise 3:

Homicide related deaths in males :

15,555/139,813,000 = 11.1 deaths per 100,000

Homicide related deaths in females:

3.3 deaths per 100,000

Ratio of mortality rate between men and women: 11.1/3.3 = 3.2:1

Exercise 4:

Proportionate mortality for age 24-44 years = 12.6%

Proportionate mortality from homicide = 5.7%

Exercise 5:

Case fatality ratio for H5N1 =

number of deaths due to a specific disease / the total number of cases from that disease =

6/18 = 33%

Exercise 6:

Incidence rate of bronchitis among those exposed:

Number of new cases among those exposed / the total at risk exposed population during the 5 years

(268-30) / (6000-60) = 40.1

Incidence of bronchitis among the unexposed:

Number of new cases unexposed / total unexposed population at risk during the 5 years

30 / (3000-30) = 10.1

Incidence rate of chronic bronchitis for the 5 years in total:

268 / (9000 – 90) = 30.1