Epidemiology: HLSC 2003 Active Engagement Assignment 2

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Sept	18.	2	014	

Grou	Group ID:						
Group Members in Attendance (do not include the names of those absent):							
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	the news report of Population of the N					uestions:	
	hat would the crud no further cases aft	-	•			S be for 2012 if there	
	hat was the case fa lation)? (2 marks)	tality ratio for W	est Nile Virus ir	the US betv	veen Jan 1 – Se	ept 11, 2012 (show	
rate fi	•	se in city B is 150	per 100,000 in	persons 65-6	9 years old. Th	s old. The mortality be inference that the	
A	. Correct						
В	. Incorrect, becaus	se of a failure to di	stinguish betwee	en prevalence	e and mortality		
C	. Incorrect, becaus	se of a failure to ad	ljust for differen	ces in age di	stributions.		
D	. Incorrect, becaus	se of a failure to di	stinguish betwee	en incidence	and prevalence	e.	
E.	. Incorrect, becaus	se a proportion is u	ised when a rate	is required to	o make this inf	erence.	



CDC: 2,636 cases of West Nile virus so far in record 2012



By Michelle Castillo Topics News



(Credit: CBS News)

(CBS News) Reported cases of West Nile Virus and deaths caused by the disease continue to rise, the Centers for Disease Control and Prevention (CDC) said during a press conference on Tuesday.

Forty-eight states have reported cases of West Nile infection in people, birds and mosquitoes, with Alaska and Hawaii the only exceptions. As of Sept. 11, there have been 2,636 cases of West Nile virus disease in people this year, including 118 deaths. Of these, 1,405 (53 percent) were classified as neuroinvasive or brain-related which includes infections like meningitis or encephalitis,

and 1,231 (47 percent) were classified as non-neuroinvasive disease, sometimes referred to as West Nile fever. It is the highest number reported through September since a 2003 outbreak.

CDC reports 40 percent increase in U.S. West Nile virus cases What's making the 2012 West Nile virus outbreak the worst ever? West Nile virus outbreak: How to protect yourself

Two-thirds of all the cases have been reported from six states - Texas, Louisiana, South Dakota, Mississippi, Michigan, and Oklahoma - with 40 percent of all cases coming from Texas. Previously, Dallas County officials declared a state of emergency, and the city has undergone several aerial sprayings of insecticide to control the mosquito population.

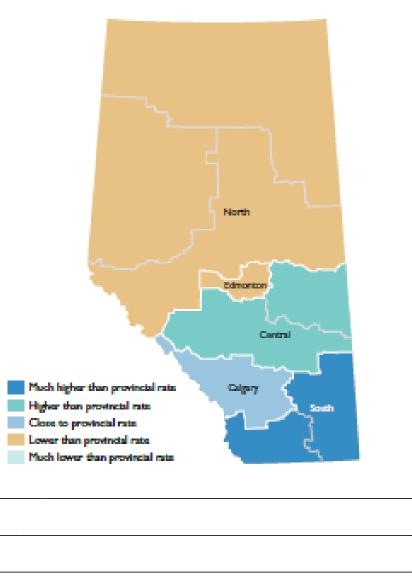
Last week the CDC reported 1,993 cases of West Nile Virus across the U.S. with 87 deaths. Last month on August 14, the CDC only reported 693 cases of the disease and 26 deaths. Officials have said they expect the cases to increase through mid-October.

- **4.** For a disease such as pancreatic cancer, which is highly fatal and of short duration (1 mark)
- A. Incidence rates and mortality rates will be similar
- B. Mortality rates will be much higher than incidence rates
- C. Incidence rates will be much higher than mortality rates
- D. Incidence rates will be unrelated to mortality rates
- E. None of the above

Descriptive Epidemiology by Place

5. Describe diabetes prevalence among Aboriginals living in Alberta by place. Could the information in Figure 10.2 simply be due to differences in the average age of Aboriginal peoples living in different parts of the province? Why or why not? (2 marks)

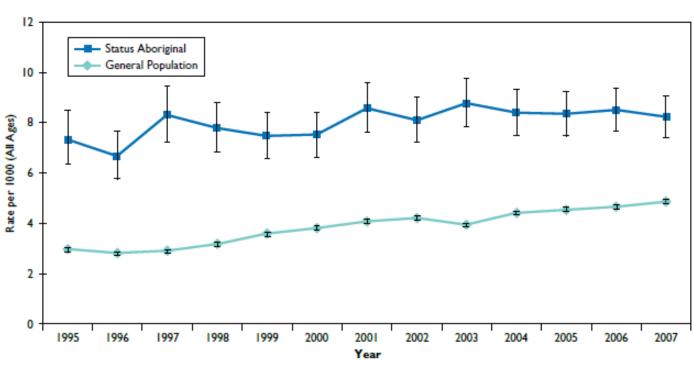
Figure 10.2 Age-Adjusted Status Aboriginal Diabetes Prevalence Rates for All Ages by Zone, 2007



Descriptive Epidemiology by Time

6. Describe differences in the pattern of diabetes incidence between Aboriginal and non Aboriginals in Alberta <u>between 2003 - 2007</u>. Would this change best be described as a cyclic fluctuation, a point epidemic, or a secular time trend? (2 marks)

Figure 10.4 Age- and Sex-Adjusted Diabetes Incidence Rates, Among Status Aboriginal and General Populations, 1995-2007



7. Pertussis (whooping couch) is responsible for an estimated 13 million DALYs each year throughout the world. Explain what this means (2 marks)