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**EPID 573A HW#1: Measures of Frequency**

**Descriptive Epidemiology: person, place, time**

1. Pick a disease and exposure association and describe it by a) person and b) place or time. Create one PowerPoint slide to show the graph and in words state/describe which group has the highest rate of the disease. Upload to D2L.

Example: from lecture find a BRFSS (with data more recent than 1994) graph displaying an association.

**Measures of Frequency (measures of “risk”)**

For these questions,

* Submit answers in Word prior to class on D2L
* Bring a copy to class (typed or on your computer) to take notes

1. The Epi I class has 45 students of whom 16 get an A (see lecture notes), 21 get a B and 8 get a C.
   1. What is the frequency of getting a B?
   2. What is the probability proportion of getting a B?
   3. What is the probability of not getting a B?
   4. What are the odds of getting a B?
2. A professor drives from Tucson to Phoenix (90 miles) in 90 minutes with no stops. What is the average velocity/speed of the vehicle?
3. (Challenge) An annual incidence rate is the number of new cases diagnosed during the year divided by the population denominator (to be discussed more later). A point prevalence is the number of cases that exist at that point (point prevalence rate would then also have a denominator). A period prevalence would include any cases that existed in that time period. Which cases (do not worry about denominators for this exercise) from the graph below would be counted for:



* 1. an annual incidence rate
  2. a point prevalence at 1/1/00
  3. a point prevalence at 12/31/00
  4. period prevalence for 1/1-12/31/00