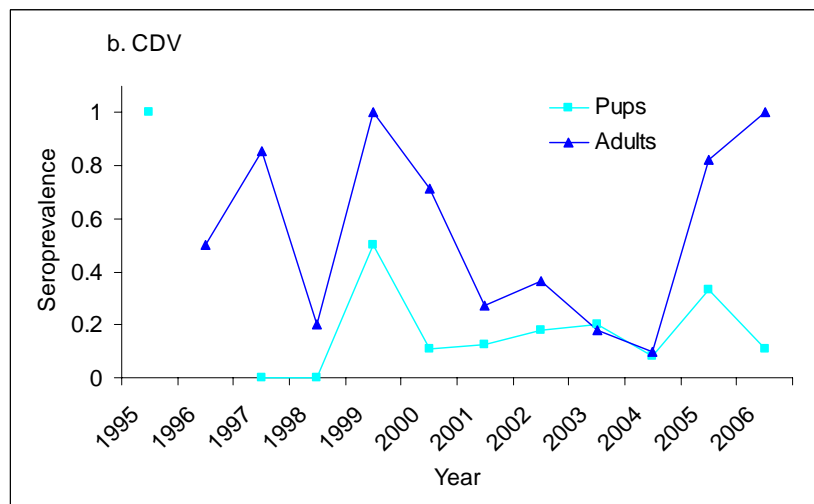


Stat 8801 – Case Discussions

April 9, 2008

Infectious disease in the gray wolves (*Canis lupus*) of Yellowstone National Park (courtesy of Amy Almberg)

In 1999 and 2005, the newly restored wolf population in Yellowstone National Park (YNP) experienced significantly reduced pup recruitment suggestive of a disease outbreak (Smith & Almberg 2007). Many suspect canine parvovirus (CDV) as the causative agent. Since the reintroduction of wolves in 1995, the Yellowstone Wolf Project has annually caught and radio-collared approximately 20-30 wolves spanning all known packs in the park. To date, the Project has collected serum samples from 221 individuals, all of which have been screened for antibodies CDV, either present or absent. This figure summarizes the data. The horizontal axis is year, and the vertical axis is the fraction of sampled animals positive for CDV. Separate curves are given for pups (animals born in the current year) and adults, all others.



Sample Survey from the Derr CD

A student health center wishes to know the opinions of its customers, the 40,000 or so students in the school. Of special interest is the opinions of international students, who are thought to be a particularly difficult to serve subgroup of students.