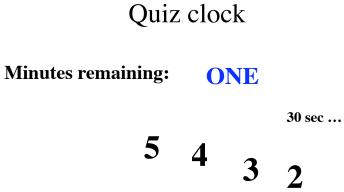
ANTH 42

OH today canceled

Wrap guenons and others; species and speciation (including HIV); macaques and baboons... later

> QZ 11: Most got ½ on last question. Needed to connect rainfall & subsequent food to time of birth & early lactation. Note: ≠ lemur seasonality ...





WHAT did that monkey just DO??? Think about it... if that is learned, how did s/he figure that out?

Masked Monkeys



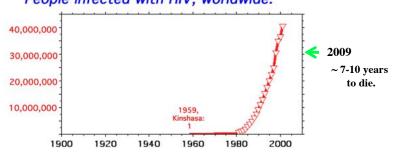
<image/>	
SIV	

HIV - case study

1981 Starting to notice Pneumocystis carninii pneumonia (rare lung infection) and Kaposi's sarcoma (rare, benign cancer), in USA.

1983 AIDS identified in Africa

1985 Ronald Desrosiers SIVmac (UC Davis) People infected with HIV, worldwide:

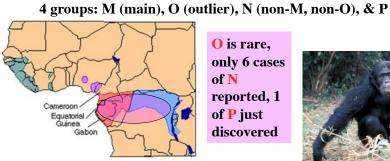


A fast overview of HIV/SIV

Human Immunodeficiency Virus / Simian IV (lentiviruses)

HIV has 2 distinct varieties:

HIV-1 - Origin in Central Africa, derived from SIVcpz



O is rare, only 6 cases of N reported, 1 of **P** just discovered



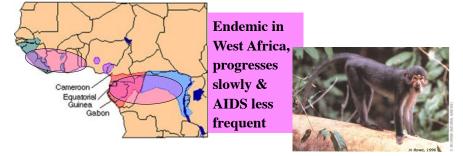
A fast overview of HIV/SIV

Human Immunodeficiency Virus / Simian IV (lentiviruses)

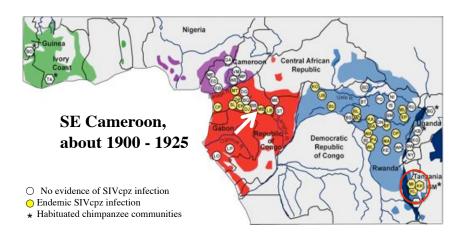
HIV has 2 distinct varieties:

HIV-1 - Origin in Central Africa, derived from SIVcpz









Gombe: SIVcpz Infection is Associated with Decreased Female Fertility

/0RI 0

Total Infected: 40,000,000 Newly Infected (in 2001): 5,000,000 Deaths (in 2001): 3,000,000

The pandemic clades are all

HIV-1, Group M

 22 of 30 uninfected females gave birth to 30 infants (29 birth per 90 risk years)

PREDOMINANT HIV CLADES

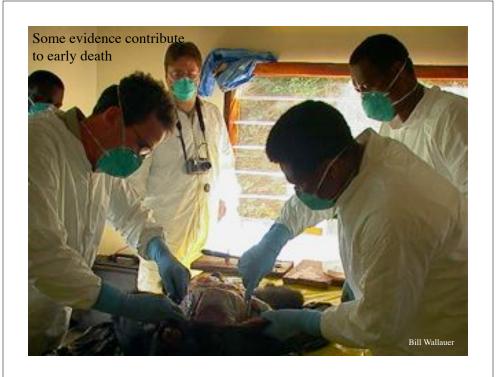
CLADE A CLADE B CLADE C

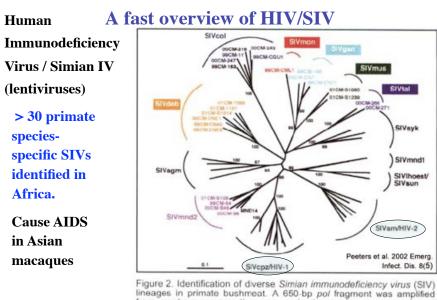
CLADE D CLADE E OTHER

□ NO INFORMATION

- 4 of 9 infected females gave birth to 4 infants (4 birth per 30 risk years)
- Odds of giving birth are 3.1 times lower for infected females (p=0.034).







from monkeys representing seven primate species, sequenced, and subjected to phylogenetic tree analysis by the neighbor-joining method.

A fast overview of HIV/SIV

Viral clades correlated with primate clades - but not perfectly.

Mandrill

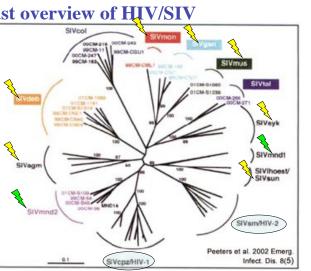


Figure 2. Identification of diverse Simian immunodeficiency virus (SIV) lineages in primate bushmeat. A 650 bp pol fragment was amplified from monkeys representing seven primate species, sequenced, and subjected to phylogenetic tree analysis by the neighbor-joining method.