Rabies Revisited 2013

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Sick Bat
Sick Bat

Cabinet for Health and Family Services
Rabid Bat
Rabid Dog
Rabid Skunk

Cabinet for Health and Family Services
Rabies Cases 2012

- 2/28/2012  Green County  dog
- 3/5/2012    Garrard County  skunk
- 3/15/2012  Lincoln County  bat
- 4/27/2012  Todd County    skunk
- 7/27/2012  Davies County  bat
Human Rabies Fatalities 2006-2011

- 15 humans cases – 9/15 bat variant assoc
- 2006 – 3 cases = 2 bat + Phillipine dog
- 2007 – 1 case = 1 bat
- 2008 – 2 cases = 1 bat + fox
- 2009 – 4 cases = 3 bat + 1 Indian/Asia dog
- 2010 - 1 case = 1 bat
- 2011 – 4 cases = 1 bat +2 dogs (Haiti & Afghan) + unknown
*Raccoon Rabies has spread from west of Mobile Bay to Canada
Rabid Bats have been found in 49 states.
Multiple Rabies Virus Types/Variants

#’s represent feriousness/viciousness/meanness

1

2

3

4 North Central skunk variant = KY

5 Bat variant = KY

6

7

8

9

10 Raccoon variant = Devil Monster NOT KY
Oral Rabies Vaccine
Laboratory Confirmed Cases of Animal Rabies, Kentucky, 1965-2008

Year
Cases

Cabinet for Health and Family Services
COURSE OF THE DISEASE

SITE OF INFECTION

PERIPHERAL NERVES

CENTRAL NERVES

BRAIN (Encephalitis)

CRANIAL NERVES

SALIVARY GLANDS

(Only saliva, and Nerve Tissue Infective)
Rabies DFA Test

- Rabies Direct Fluorescent Antibody Test is an extremely difficult test to perform
- Difficulty scale is 12 out of 1-10 scale
- Requires pristine brainstem fresh samples
- Requires highly skilled laboratorians
- 25 page rabies DFA SOP
Brown Bat Bite
• Silver-haired Bat
• *(Lasionycteris noctivagans)*
What Vaccine May Be Given

- ANY USDA APPROVED VACCINE
- 3 YEAR VACCINES FOR H.D. CLINICS
- TAG WITH SERIAL # & YEAR
- NASPHV # 51 or equivalent
  1 COPY - OWNER
  1 COPY - RETAIN
WHEN To Give Vaccine

- **VACCINATE BY 4 MONTHS OLD**
- **REVACCINATE PER LABEL**
  - Always 1 year for primary vaccination
  - 1 or 3 year booster thereafter

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RABIES VACCINATION CLINICS

• DETERMINED BY LHD OR CHFS
• CHFS MAY DESIGNATE LAY PEOPLE
• USE 3 YEAR VACCINES
• MAXIMUM FEE = $5.00
Important Perspectives

- Many causes of animal/mammal encephalitis
- Most common causes canine distemper virus
- Raccoons reservoir for canine distemper
- Canine distemper encephalitis causes crazy acting raccoons
- Roundworms migration in squirrels, raccoons through the brain = crazy acting behavior
Important Perspectives

• Many causes of encephalitis
• Canine Distemper virus common
• Roundworm migration common
• Rabies is Rare