Rabies

I. Symptoms
- Acute Encephalitis (brain inflammation)
- Central Nervous System
- Symptoms occur after 20-60 days
  - Loss of consciousness
  - Fever
  - Headache
  - Irritability
  - Anxiety
  - Foaming of the mouth
- Fatal if left untreated

II. Management
- Vascular antagonist, rabies immunoglobulin
- Vaccination

III. Monitoring
- Surveillance
- Testing

IV. Future Plans
- Education
- Prevention

What is Rabies?
Viral zoonotic invasive disease
Symptoms of the Rabid Animal

- 1st Prodromal, 1-3 days
- 2nd Furious, 3-4 days
- 3rd Paralytic, 4-7 days

Direct Fluorescent antibody test (dFA)

Intact Brain

Management

Past 30 years wildlife replacing domestic dogs as primary host

Cost of living with Rabies ≈ $300 million/yr

Detection, Prevention, and Control

Rabies in the Southeast

Raccoon, Skunk, Fox
Coyote, Dog, Bat
Oral Rabies Vaccine (ORV)
Raboral V-RG®
Rabies vaccine

9 mil : 2005
15 states
FIGURE 1
Development of sylvatic rabies (fox mediated rabies) in Germany, 1954-2005

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of rabies cases</th>
</tr>
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<tbody>
<tr>
<td>1954</td>
<td>10,000</td>
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<tr>
<td>1960</td>
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<tr>
<td>1970</td>
<td>2,000</td>
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<td>1980</td>
<td>4,000</td>
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<tr>
<td>1990</td>
<td>10,000</td>
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<tr>
<td>2000</td>
<td>1,000</td>
</tr>
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Beginning of oral vaccination programmes in the western and eastern part of the country.

Biomarker

Distribution

ORV

- Safe for 60 species
- Biomarker
- Distribution
Monitoring

- Trap
- Immobilize
- Molar extraction
- Draw blood

Reported Rabies Cases: 2008
Long Term Plans

- Shifting ORV zone 5 miles cast on a yearly basis
- Seeking new ways to improve treatment

Questions