Stumbling blocks during the first oral vaccination of foxes against rabies (OV) - an experience in Germany, Latvia and Turkey

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Consortium JVL-PLS-VLA/FLI
1-Start organizing the campaign in time

- Storing space at -20°C
- Planes for the distribution of vaccine baits (VB)
- Money (it can limit the VB and thus the area to be vaccinated)

the best: make sure to have money for coming years

- Choose an optional time of the year for the campaign
2-Even distribution of VB to avoid foci to develop

- The area as large as possible and NOT separated
- No favours to politicians, the area is decided on by the veterinary department
- Cooperate with neighbouring countries
- Consider natural barriers
- Don’t leave area with no cases too early (2 years)
- Smallest area for vaccination: 5000 km²
ORAL VACCINATION OF FOXES

DISTRIBUTION OF VACCINE BAITS: EVENLY
NUMBER OF VACCINE BAITS: 20 PER SQUARE-KM
DENSITY OF FOXES: approx. 1-6 PER SQUARE-KM
RATE OF IMMUNISATION: 75%

AREA: approx. 5 SQUARE-KM

ORAL VACCINATION OF FOXES

DISTRIBUTION OF VACCINE BAITS: UNEVENLY
NUMBER OF VACCINE BAITS: 20 PER SQUARE-KM
DENSITY OF FOXES: approx. 1-6 PER SQUARE-KM
RATE OF IMMUNISATION: 75%

AREA: approx. 5 SQUARE-KM
3-Organize aerial distribution

- Tender and finance
- Training of pilots and changing planes
- Preparing maps for the vaccination area
- Licence for airports and airstrips for loading VB
- Example: 5 planes (Antonow), 600,000 VB in 267 flight hours, approx. 10 days, an area of 36,000 km²
- Additional manual placing of VB
4-Consider density of foxes

- Are there any figures available?
- If not, get the biologists involved
- With increasing campaigns, there will be more survivors in the fox population
- You have to reach approx. 3 out of 4 foxes protected
- Common practice 15-30 VB per km²
- Effect of regular turnover every year

<table>
<thead>
<tr>
<th>Year</th>
<th>Foxes with Antibodies</th>
<th>Total examined</th>
<th>%</th>
<th>Fox Hunting Bag*</th>
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<tr>
<td>1991</td>
<td>644</td>
<td>895</td>
<td>72</td>
<td>52305</td>
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<td>1992</td>
<td>869</td>
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<td>1995</td>
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<td>1196</td>
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<td>1996</td>
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<td>1300</td>
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<td>1997</td>
<td>730</td>
<td>960</td>
<td>76</td>
<td>79243</td>
</tr>
</tbody>
</table>

*source: Wildforschungsstelle (wildlife research) of Baden-Württemberg*
5-Strategy

- Depends very much on the money available
- Consider natural bounderies and activities of OV in neighbouring countries
- Stop extending outbreaks and consider safety distance
- Increase VB when necessary
- Increase campaigns within a year
6-Further important points

- Inform the public
- Inform the health department
- Monitor vaccine potency
- Monitor success of campaign in follow-up investigation (VB uptake, antibody response)
KUDUZ İLE MÜCADELE

BU BIR TAKIM OYUNU

EGE 1 KUDUZ 0

Kedi, Köpek,
At ve Sığırın da
Aşıl Yaşagız.

Aşılı Yemleriyle
Dynamayaçılmış

Bir Sürê
Orman Vaskak,
Yemleri Yenenem
Gömük

Aşına Dokunmayın!

Detayı bilgi için: Tamm II Müdürlüğüne başvurunuz.

UYARI

- Aşlanız helikopterlerini gördükten sonra bir hafta süreyle
  görmediniz aşını yemlerine dokunmayın.
- Bu süre içindendi çocuklarınız aşını yemlerine dokunmanızi konusunda uyardınız.
  Evcil hayvanlarınız açık alanlarına çıkartmayın.
- Aşını yemini içinde tropos ohanesi temasanın en yakın sağlık birimine başvurun.
7-Helpful literature

- European Commission: The oral vaccination of foxes against rabies, 2002
- Rabies Bulletin Europe, quarterly
- Create your own notebook on OV