

## Thoughts on some viral infections in middle Europe



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## Equine Infectious Anaemia (EIA)

- **Rule of law in Hungary:**
  - **All equine:** serological examination every 3 years (EIA, Glanders)
  - **Sport and breeding horses:**
    - Serological examination every year (EIA, Glanders, Dourine )
    - Vaccination at national level (ED): concerning FEI rules
  - If EIA (+) following repeated serology:
    - Euthanasia with state compensation
- **Rule of law in Romania for EIA**
  - 2x / year serological examination for all horses
  - Closed slaughter if positive
  - State compensation

Budapest

## EIA positive cases in Hungary 2005-2007

- **No clinical cases**
- **2x seropositive (Coggins test)**
  - 2005: 9 /18513
    - 8 at border control
  - 2006: 1/13006
    - 1 at border control
  - 2007: 7/24234
    - 3 at border control

Information: Central Agricultural Office  
Animal Health and Animal Welfare Directorate, Hungary

## 2002 Europe EIA

Country	Outbreaks	Cases	Death
Croatia	51	360	49
Greece	40	40	0
Romania	8620	11262	360
Serbia-Mtn	10	35	0

Information: Prof Rene Van den Hoven, Vienna

## Transport of slaughter horses

(BEVA, Edinburgh, 2007: Keith Meldrum presentation)

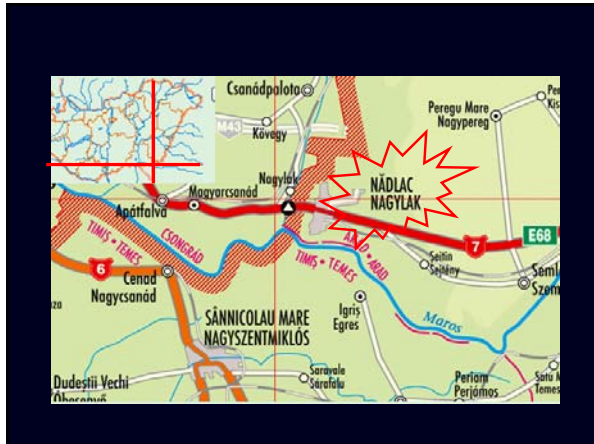
- Hungary is not a slaughter horse producing country anymore
- **Horse population:**
  - Hungary: ~ 80.000
  - Romania: ~ 3.000.000
- Most of the transports are in transit through Hungary
- **Most of the horses are coming from:**
  - Romania
  - Lithuania
  - Latvia

Large Animal Clinic  
Budapest

Information: Central Agricultural Office, Hungary

## Transit through Hungary





## Rabies in Hungary

- Sylvatic rabies (fox)
- 1986-1995: average 1104 cases/year
- Fox oral vaccination with bait
  - started in 1992
  - vaccination on the whole territory of the country: since 2004
  - 2x / year



## Rabies in Hungary 1996-2006

	96	97	98	99	00	01	02	03	04	05	06	07
Fox	1082	445	429	310	393	231	122	128	111	7	2	2
Dog	59	21	24	19	24	14	4	5	6	0	0	0
Cat	117	65	69	41	63	42	17	18	5	2	0	0
Cattle	65	22	20	15	25	15	8	18	3	0	1	0
Horse	3	1	5	2	5	1	1	1	0	0	0	0
<b>Total</b>	<b>1357</b>	<b>571</b>	<b>558</b>	<b>398</b>	<b>514</b>	<b>310</b>	<b>160</b>	<b>172</b>	<b>125</b>	<b>9</b>	<b>3</b>	<b>2</b>

## West Nile virus in Hungary

- Seropositivity: known since 1969
- Clinical cases (birds) since 2003
- First documented horse case:
  - 2007 September
  - Severe CNS symptoms
  - Euthanasia on the 4th day of hospitalization
  - Encephalomyelitis
  - Virus detection: PCR, immunohistochemistry

## Equine Virus Arteritis

- 1998-2004:
  - serology: ~ 50% seropositivity
  - virus isolation:
    - stallions: 27/280 (10%)
    - abortions: 3/177 (1.7%)
- 2005: 361/1064 seropositive
- 2006: 236/869 seropositive
- 2007: 233/775 seropositive

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Happy New Year to you all!  
Boldog Uj Evet!