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2011-05-23-097 Chronic wasting disease, cervid - Korea ex Canada
To: (06) Transmissible spongiform encephalopathies; (24) Emerging diseases

CHRONIC WASTING DISEASE, CERVID - KOREA ex CANADA

A ProMED-mail post

Date: 16 May 2011

Source: Prion 2011, Pre-congress Workshop: TSEs in animals and their environment 5 [edited]

<<http://www.prion2011.ca/files/2011TSEBookletV6Final.pdf>>

Chronic Wasting Disease (CWD) outbreaks and surveillance program in the Republic of Korea. Hyun-Joo Sohn, Yoon-Hee Lee, Min-jeong Kim, Eun-Im Yun, Hyo-Jin Kim, Won-Yong Lee, Dong-Seob Tark, In- Soo Cho.

Foreign Animal Disease Research Division, National Veterinary Research and Quarantine Service, Republic of Korea.

Chronic wasting disease (CWD) has been recognized as an important prion disease in native North American deer and Rocky Mountain elk.

The disease is a unique member of the transmissible spongiform encephalopathies (TSEs), which naturally affects only a few species.

CWD had been limited to USA and Canada until 2000.

On 28 Dec 2000, information from the Canadian government showed that a total of 95 elk had been exported from farms with CWD to Korea.

These consisted of 23 elk in 1994 originating from the so-called "source farm" in Canada and 72 elk in 1997 which had been held in pre-export quarantine at the source farm.

Based on export information of CWD-suspected elk from Canada to Korea, a CWD surveillance program was initiated by the Ministry of Agriculture and Forestry (MAF) in 2001. All elk imported in 1997 were traced back; however, elk imported in 1994 were impossible to identify.

CWD control measures included stamping out of all animals in the affected farm and thorough cleaning and disinfection of the premises.

In addition, nationwide clinical surveillance of Korean native cervids and improved measures to ensure reporting of CWD suspect cases were implemented.

A total of 9 elk were found to be affected. CWD was designated as a notifiable disease under the Act for Prevention of Livestock Epidemics in 2002. Additional CWD cases -- 12 elk and 2 elk -- were diagnosed in

2004 and 2005. Since February 2005, when slaughtered elk were found to be positive, all slaughtered cervids for human consumption at abattoirs were designated as targets of the CWD surveillance program.

Currently, CWD laboratory testing is only conducted by the National Reference Laboratory on CWD, which is the Foreign Animal Disease Division (FADD) of the National Veterinary Research and Quarantine Service (NVRQS).

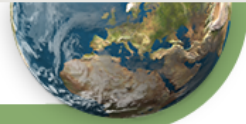
In July 2010, one out of 3 elk from Farm 1 slaughtered for human consumption were confirmed as positive. Consequently, all cervids --

54 elk, 41 Sika deer and 5 Albino deer -- were culled, and one elk was found to be positive.

Epidemiological investigation was conducted by the Veterinary Epidemiology Division (VED) of NVRQS in collaboration with provincial veterinary services.

Epidemiologically-related farms were searched for: 3 farms were found, and all cervids at these farms were culled and subjected to CWD diagnostic [testing]. Three elk and 5 crossbreeds (Red deer and Sika

deer) were confirmed as positive at farm 2. All cervids at Farm 3 and Farm 4 -- 15 elk and 47 elk -- were culled and confirmed negative.



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Further epidemiological investigation showed that these CWD outbreaks were linked to the importation of elk from Canada in 1994 based on circumstantial evidence.

In December 2010, one elk was confirmed positive at Farm 5. Consequently, all cervids -- 3 elk, 11 Manchurian Sika deer and 20 Sika deer -- were culled, and one Manchurian Sika deer and 7 Sika deer were found to be positive. This is the 1st report of CWD in these sub-species of deer.

Epidemiological investigation found that the owner of Farm 2 in the CWD outbreaks of July 2010 had co-owned Farm 5. In addition, it was newly revealed that one positive elk was introduced from Farm 6 of Jinju-si Gyeongsang Namdo. All cervids -- 19 elk, 15 crossbreeds (species unknown) and 64 Sika deer -- of Farm 6 were culled, but all were confirmed negative.

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[Many of the chronic wasting disease monitoring programs in North America were not in existence in the early 1990s. Most of the North American programs require some type of animal identification and often some corresponding premises identification and accompanying records of births, deaths and testing of naturally deceased and slaughtered animals.

It will be interesting to follow the CWD situation in Korea. - Mod.TG]

[see also:

2010

Chronic wasting disease, cervids - Canada (02): (SK) susp.
20100518.1629

Chronic wasting disease, cervids - Canada: (AB) 20100320.0888
2009

Chronic wasting disease, cervids - Canada: (SK) 20090417.1462 Chronic wasting disease, cervids -
Canada: (AB) 20090327.1192 Chronic wasting disease, cervids - Canada: (AB) 20090131.0444
2008

Chronic wasting disease, cervids - Canada (03): (SK) 20080819.2590 Chronic wasting disease,
cervids - Canada (02): (AB) 20080619.1906 Chronic wasting disease, cervids - Canada (SK): elk
20080517.1647
2007

Chronic wasting disease, cervids - Canada (04): (SK, NS)
20071027.3497

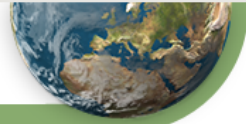
Chronic wasting disease, cervids - Canada (03): (AB,SK)
20070117.0227

Chronic wasting disease, cervids - Canada (02): (SK) 20070112.0139 Chronic wasting disease,
cervids - Canada: (AB) 20070105.0051
2006

Chronic wasting disease, cervids - Canada (AB) 20060224.0604
2005

Chronic wasting disease, cervids - Canada (AB) (02) 20051213.3585 Chronic wasting disease, cervids
- Canada (AB) 20050907.2650 Chronic wasting disease, cervids - Canada (SK) 20050706.1917
2004

Chronic wasting disease, cervids - Canada (SK) 20040218.0527 Chronic wasting disease, cervids -
Canada (SK) 20040101.0005



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2003

Chronic wasting disease, cervids - Canada (SK) (02) 20030314.0633 Chronic wasting disease, cervids
- Canada (SK) 20030206.0319 Chronic wasting disease, elk - Canada (SK) 20030115.0123

2002

Chronic wasting disease, cervids - Canada (Alberta) 20021108.5750 Chronic wasting disease, cervids
- Canada (SK) 20021026.5645 Chronic wasting disease, cervids - USA, Canada 20020527.4332
Chronic wasting disease, cervids - Canada 20020401.3858

2001

Chronic wasting disease, wild deer - Canada (SK) (03) 20010723.1436 Chronic wasting disease, wild
deer - Canada (SK) (02) 20010628.1229 Chronic wasting disease, wild deer - Canada (SK)
20010409.06971

1996

Chronic wasting disease - Canada & USA (2) 19960620.1132 Chronic wasting disease - Canada &
USA 19960613.1094 Chronic wasting disease - Canada 19960501.0841]