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Archive Number 20030103.0011

Published Date 03-JAN-2003

Subject PRO/AH> Hantavirus pulmonary syndrome - Canada (Alberta)

HANTAVIRUS PULMONARY SYNDROME - CANADA (ALBERTA)

A ProMED-mail post

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Date: Tue 31 Dec 2002

From: Dr. Michael Drebot <Mike_Drebot@hc-sc.gc.ca>

[The following information has been received from Dr. Michael Drebot in relation to the Moderator's comment to the ProMED-mail post of 24 Dec 2002 entitled, "**Hantavirus** pulmonary syndrome - Canada (Alberta)". My comment read as follows: "Several hantaviruses have been recorded in Canada: Prospect Hill virus, Bloodland lake virus, Topografov virus, Sin Nombre virus, New York virus, El Moro canyon virus, Blue River virus; all associated with different species of rodents. Of these only Sin Nombre & New York viruses are etiologic agents of **hantavirus** pulmonary syndrome. Unlike the other Canadian hantaviruses, these 2 are maintained in rodents of the family *_Muridae_*, subfamily *_Sigmodontinae_*. The principal reservoir of Sin Nombre virus is the deer mouse (*_Peromyscus maniculatus_*), and that of New York virus the white-footed mouse (*_Peromyscus leucopus_*). It seems likely, therefore, that Sin Nombre virus is the virus responsible for the cases of **hantavirus** pulmonary syndrome in Alberta during 2002." - Mod.CP]

Dr. Michael Drebot's Comment

Although it is possible that several species/genotypes of hantaviruses are present in Canada, only Sin Nombre virus and Prospect Hill virus have actually been documented by serological and phylogenetic characterization (Drebot et al., 2000, Can Commun Dis Rep 26-08, 65-69; Drebot et al., 2001, Virus Research 75:75-86) to be associated with rodents in this country.

Seropositive deer mice have been identified from British Columbia to Newfoundland; however, the distribution of infected mice is discontinuous. Cases of **hantavirus** pulmonary syndrome (HPS) have been identified in four western provinces (British Columbia, Alberta, Saskatchewan, & Manitoba), **hantavirus** associated illness has not been documented in eastern Canada. To date, 44 laboratory-confirmed cases of HPS have been reported in Canada.

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[see also:
2002

-
- Hantavirus** pulmonary syndrome - Canada (Alberta) [20021224.6119](#)
- Hantavirus** pulmonary syndrome - USA (Arizona) [20020607.4429](#)
- Hantavirus** pulmonary syndrome - USA (Colorado) [20020605.4411](#)
- Hantavirus** pulmonary syndrome - USA (Nebraska) [20020702.4650](#)
- Hantavirus** pulmonary syndrome - USA (Nebraska) (03) [20020918.5349](#)
- Hantavirus** pulmonary syndrome - USA (Texas) [20020512.4180](#)
- Hantavirus** pulmonary syndrome - USA (Texas) (02) [20020515.4220](#)
- Hantavirus** pulmonary syndrome - USA (Utah) [20020505.4105](#)
- Hantavirus** pulmonary syndrome - USA (Utah) (02) [20020508.4135](#)
- Hantavirus** pulmonary syndrome - USA (Utah) (03) [20020609.4446](#)
- Hantavirus** pulmonary syndrome - USA (Utah) (04) [20020628.4626](#)
- Hantavirus** pulmonary syndrome update 2002 - USA (01) [20020630.4641](#)
- Hantavirus** pulmonary syndrome update 2002 - USA (02) [20020718.4794](#)
- Hantavirus** pulmonary syndrome update 2002 - USA (03) [20020809.5011](#)

2001

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- Hantavirus** pulm. synd. - Canada (Alberta) [20010106.0049](#)]
-cp/pg/jw

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