OIE Collaborating Centres Reports Activities

Activities in 2015

This report has been submitted: 2016-01-15 06:36:23

<table>
<thead>
<tr>
<th>Title of collaborating centre:</th>
<th>Research, Diagnosis and Surveillance of Wildlife Pathogens</th>
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</thead>
<tbody>
<tr>
<td>Address of Collaborating Centre:</td>
<td>Western College of Veterinary Medicine University of Saskatchewan 52 Campus Drive Saskatoon S7N 5B4 CANADA USGS, National Wildlife Health Center 6006 Schroeder Road Madison, WI 53711 USA</td>
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<tr>
<td>Tel.:</td>
<td>+1-(306) 371-7177</td>
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<td>Fax:</td>
<td></td>
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<tr>
<td>E-mail address:</td>
<td><a href="mailto:jsleeman@usgs.gov">jsleeman@usgs.gov</a></td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.cwhc-rcsf.ca">www.cwhc-rcsf.ca</a>; <a href="http://www.nwhc.usgs.gov">www.nwhc.usgs.gov</a></td>
</tr>
<tr>
<td>Name of Director of Institute (Responsible Official):</td>
<td>Jonathan Mark Sleeman</td>
</tr>
<tr>
<td>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</td>
<td>Jonathan Sleeman, MA, VetMB, Dipl. ACZM, Dipl. ECZM, MRCVS Center Director USGS, National Wildlife Health Center 6006 Schroeder Road Madison, WI 53711 Tel: (608) 270 2401 Fax: (608) 270 2415 Email: <a href="mailto:jsleeman@usgs.gov">jsleeman@usgs.gov</a></td>
</tr>
<tr>
<td>Name of writer:</td>
<td>Jonathan Mark Sleeman</td>
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</table>
ToR: To provide services to the OIE, in particular within the region, in the designated specialty, in support of the implementation of OIE policies and, where required, seek for collaboration with OIE Reference Laboratories

ToR: To identify and maintain existing expertise, in particular within its region

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by the OIE

<table>
<thead>
<tr>
<th>Title of activity</th>
<th>Scope</th>
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<tbody>
<tr>
<td>Avian Influenza Surveillance by the NWHC</td>
<td>In 2015, the USGS National Wildlife Health Center tested 1,133 birds as part of the US avian mortality surveillance program. From these tests, 160 birds were avian influenza virus (AIV) matrix gene-positive, including 20 that were positive for the AIV H5 gene; 15 of which were positive for the icA group of highly pathogenic AIVs. In addition, we performed 1,260 RT-PCR tests for AIV in support of Departments of Interior and Agriculture initiated surveillance in Washington, Idaho, and Oregon. From these tests, 174 samples were AIV matrix gene-positive, including 21 that were positive for the H5 gene and four that were positive for H7. Eleven of the H5-positive samples were positive for the icA group of highly pathogenic avian influenza viruses. The NWHC also participated in the US Government Interagency Avian Influenza Surveillance Program and testing results will be reported by the US Department of Agriculture.</td>
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<tr>
<td>Expert Consultation to the Republic of Korea</td>
<td>(NWHC) National Wildlife Health Center Director Jonathan Sleeman conducted a 5-month detail at Seoul National University in South Korea. Dr. Sleeman conducted research on a nationwide wildlife disease risk analysis to assess disease risks to Korea. Dr. Sleeman's work resulted in transfer of knowledge and skills to Korea which will assist them in managing wildlife diseases that affect the Korean Peninsula.</td>
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Field Trials of a Recombinant Vaccine for Sylvatic Plague in Prairie Dogs

The USGS National Wildlife Health Center, along with numerous state and federal partners, completed the third year of a four-year field study on the efficacy of a recombinant oral sylvatic plague vaccine (SPV) for prairie dogs. In 2015, over 100,000 baits containing either SPV or a placebo were distributed at 29 paired sites (58 prairie dog colonies) in 12 locations in 7 western states, covering more than 2200 acres. Prairie dog survival and population densities will be compared between SPV and placebo treated pairs. Concurrent evaluations are being conducted in associated small rodents that also consume the baits.

ToR: To propose or develop methods and procedures that facilitate harmonisation of international standards and guidelines applicable to the designated specialty

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the surveillance and control of animal diseases, food safety or animal welfare

<table>
<thead>
<tr>
<th>Proposal title</th>
<th>Scope/Content</th>
<th>Applicable area</th>
</tr>
</thead>
<tbody>
<tr>
<td>US National Response to White-Nose Syndrome in Bats</td>
<td>The USGS National Wildlife Health Center serves on the Executive and Steering Committees of the US National Plan for the Management of White-Nose Syndrome. The NWHC also Chairs the Diagnostic Working Group to standardize diagnostic testing for this disease.</td>
<td>☐ Surveillance and control of animal diseases ☐ Food safety ☐ Animal welfare</td>
</tr>
</tbody>
</table>

ToR: To establish and maintain a network with other OIE Collaborating Centres designated for the same specialty, and should the need arise, with Collaborating Centres in other disciplines

ToR: To carry out and/or coordinate scientific and technical studies in collaboration with other centres, laboratories or organisations

3. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

<table>
<thead>
<tr>
<th>Name of OIE CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>The NWHC and CWHC are in consortium as a joint Collaborating Centre</td>
<td>Saskatoon, Canada and Madison, Wisconsin, USA</td>
<td>☐ Africa ☐ Americas ☐ Asia and Pacific ☐ Europe ☐ Middle East</td>
<td>We have several joint activities including the NWHC serving on the CWHC Executive Committee and the NWHC had a representative attend the CWHC Annual Meeting 4/22-23/2015, represented the Center, to discuss current wildlife health topics, and present a science update to attendees. This meeting was held in Abbotsford, Canada.</td>
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</table>
4. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

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<thead>
<tr>
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<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnosis of Animal Diseases and Vaccine Evaluation in the Americas</td>
<td>Ames, Iowa, USA</td>
<td>□Africa □Americas □Asia and Pacific □Europe □Middle East</td>
<td>The USGS National Wildlife Health Center serves on the US Interagency Wild Bird Avian Influenza Steering Committee to standardize surveillance for this disease and also serves as an affiliate member of the National Animal Health Laboratory Network to standardize diagnostic testing for this disease.</td>
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<tr>
<td>National Veterinary Services Laboratories</td>
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ToR: To place expert consultants at the disposal of the OIE.

5. Did your Collaborating Centre place expert consultants at the disposal of the OIE?

Yes

<table>
<thead>
<tr>
<th>Name of expert</th>
<th>Kind of consultancy</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Frederick (Ted) Leighton</td>
<td>OIE wildlife working group</td>
<td>Wildlife disease</td>
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</table>

ToR: To provide, within the designated specialty, scientific and technical training to personnel from OIE Member Countries

6. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by the OIE, to personnel from OIE Member Countries?

Yes

a) Technical visits: 0  
b) Seminars: 2  
c) Hands-on training courses: 0  
d) Internships (>1 month): 5
ToR: To organise and participate in scientific meetings and other activities on behalf of the OIE

7. Did your Collaborating Centre organise or participate in the organisation of scientific meetings on behalf of the OIE?

No

ToR: To collect, process, analyse, publish and disseminate data and information relevant to the designated specialty

8. Publication and dissemination of any information within the remit of the mandate given by the OIE that may be useful to Member Countries of the OIE

a) Articles published in peer-reviewed journals: 105


Rates (Cricetomys gambianus) as a potential reservoir host species for Monkeypox Virus. PLoS Neglected Tropical Diseases 9(10):1-20.DOI: 10.1371/journal.pntd.0004013


Samuel, M.D., J.S. Hall, J.D. Brown, D.R. Goldberg, H. Ip, and V.V. Baranyuk. 2015. The dynamics of avian influenza in western Arctic snow geese: implications for annual and migratory infection patterns. Ecological Applications. 10.1890/14-1820.1


Stenglein, JL; Van Deelen, TR; Wydeven, AP; Mladenoff, DJ; Wiedenhoeft,JE; Businga, NK; Langenberg, JA; Thomas, NJ; Heisey, DM. Mortality Patterns and Detection Bias from Carcass Data: An Example from Wolf Recovery in Wisconsin. 79 (7): 1129-1140; SEP 2015


Anholt H, Himsworth CG, Britton A. Polioencephalomalacia and heart failure secondary to presumptive thiamine deficiency, hepatic lipidosis, and starvation in two abandoned Siamese cats. Veterinary pathology. Accepted November 2, 2015.


Robertson C, Yee L, Metelka J, Stephen C. Data issues in geographical zoonoses research. Canadian Geographer. (Accepted)


S McBurney, WK Kelly-Clark, MJ Forzán, B Lawson, KM Tyler and SJ Greenwood. 2015. Molecular characterization of Trichomonas gallinae isolates recovered from Canadian Maritime provinces’ wild avifauna reveals the presence
of the genotype responsible for the European finch trichomonosis epidemic amongst additional strains. Parasitology doi:10.1017/S0031182015000281.


http://doi.org/10.3201/eid2112.150650


b) International conferences: 5


c) National conferences: 7


Belanger D and 26 others. 2015 Wildlife diseases important for human health and food safety in the changing environment of the Eastern Subarctic. ArcticNet. Vancouver (poster)


d) Other
(Provide website address or link to appropriate information): 5
Quarterly Mortality reports


