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RESEARCH INTERESTS AND ACTIVITIES

Key Words: immunization, surveillance, epidemiology, public health, influenza, zoonotic transmission

Dr. Russell’s research interests lie in the area of the prevention and control of vaccine-preventable diseases, (especially influenza) including principles of surveillance, the methodologies and measures relevant to prevention and control of these diseases the evaluation of vaccination programs, and examination of strategies to prevent and control these diseases, including ‘one health’ approaches to influenza control. She is co-author of the Lancet paper of the year for 2010 “Effect of Influenza Vaccination of Children on Infection Rates in Hutterite Communities: A Randomized Trial”, an award given on the basis of potential impact for public health practice. Current research includes examination of approaches to the measurement of vaccine coverage, transmission of influenza between pig farmers and their pigs, and aspects of school-based influenza vaccination programs.

RESEARCH IN PROGRESS

<u>ROLE</u>	<u>FUNDING AGENCY</u>	<u>TITLE OF PROJECT</u>	<u>2010/11 ALLOCATION</u>
Principal Investigator	Alberta Livestock Industry Development Fund	<i>Zoonotic transmission of influenza A: Swine and swine workers</i>	50,729
	Alberta Health and Wellness	<i>Development of a framework and methodology to assess immunization coverage, burden and impact of vaccine preventable diseases, and vaccine effectiveness</i>	250,000
Local Co-Principal Investigator	Canadian Institutes of Health Research	<i>PHAC/CIHR influenza research network, SOS/vaccine effectiveness</i>	23,778
Co-Investigator	National Institutes of Health	<i>A randomized trial of influenza vaccination of Hutterite children</i>	500,000
	Canadian Institute of Health Research (2 grants)	<i>Transmission and prevention of influenza among Hutterites: A model for pandemic preparedness</i>	ongoing
	Canadian Institute of Health Research (2 grants)	<i>Does vaccinating healthy Hutterite children against influenza prevent influenza in other Hutterite colony members: A cluster randomized controlled trial</i>	ongoing

PUBLICATIONS

Peer-Reviewed Journal Articles

Thomas RE, **Russell ML**, Lorenzetti D. Interventions to increase influenza vaccination rates of those 60 years and older in the community. *Cochrane Database of Systematic Reviews* 2010 Sep 8;9:CD005188.

Forgie SE, Keenliside J, Wilkinson C, Webby R, Lu P, Sorensen O, Fonseca K, Barman S, Rubrum A, Stigger E, Marrie TJ, Marshall F, Spady DW, Hu J, Loeb M, **Russell ML**, Babiuk LA. Outbreak of pandemic influenza A virus on a Canadian research farm supports human-to-swine transmission. *Clinical Infectious Diseases* 2011;52(1):10-18

deBruyn JCC, Hilsden R, Fonseca K, **Russell ML**, Kaplan GG, Vanderkooie O, Wrobel I. Immunogenicity and safety of influenza vaccination in children with inflammatory bowel disease. *Inflammatory Bowel Diseases* 2011;Apr 6.

Barbara AM, Loeb M, Dolovich L, Brazil K, **Russell ML**. Patient self-report and medical records: measuring agreement for binary data. *Canadian Family Physician* 2011;57(6):737-8.

Abstracts Published in Journals

McNeil SA, Johnstone J, Ambrose A, Loeb M, **Russell ML**, Trottier S, Boivin G, McCarthy A, Henderson E, Stiver G, Halperin S, McGeer A. Sentinel surveillance for influenza in Canadian hospitals: Experience of the Public Health Agency of Canada (PHAC)/ Canadian Institutes of Health Research (CIHR) Influenza Research Network (PCIRN) adult serious outcomes surveillance network. *Canadian Journal of Infectious Diseases and Medical Microbiology* 2010;21(4):214.

Sajjad R, Kevin F, Pardeep S, Marek S, **Russell ML**, Loeb M. Serological response to repeated influenza immunization among children. *Canadian Journal of Infectious Diseases and Medical Microbiology* 2010;21(4):215.

Medd EA, **Russell ML**, Henderson EA, Kirkwood M, Macdonald J. Influenza vaccination rates decrease with increasing age among children <9 years of age in Calgary, Alberta. *Canadian Journal of Infectious Diseases and Medical Microbiology* 2010;21(4):215.

Loeb M, **Russell ML**, Moss L, Fonseca K, Fox J, Earn DJD, Aoki F, Horsman G, Van Caesele P, Chokani K, Vooght M, Babiuk L, Webby R, Walter SD. Estimates of indirect influenza vaccine efficacy for illness given infection: Evidence from a cluster randomized trial in Hutterite communities. *Canadian Journal of Infectious Diseases and Medical Microbiology* 2010;21(4):180.

GRADUATE STUDENT SUPERVISION

Emily Medd, MSc student, Department of Community Health Sciences

Thesis Topic: Epidemiology of influenza vaccination coverage among young children in Calgary Health Region

Jonathan Adebola Lambo, PhD student, Department of Community Health Sciences

Thesis Topic: Influenza vaccination and adverse events