IMPACT PUBLICATIONS and PRESENTATIONS
(By topic, with hyperlinks added where applicable)

A. Surveillance - General

B. Vaccine Safety - (Hypotonic-Hypo responsive episodes; Thrombocytopenia; Encephalopathy; Baccille Calmette-Guérin; Seizures; Infantile spasms; Injection site reactions)

C. Vaccine Preventable Diseases - (Haemophilus influenzae; Neisseria meningitides; Pertussis; Streptococcus pneumoniae; Varicella; Zoster; Influenza; Rotavirus; Polio-Acute Flaccid Paralysis surveillance)

D. Other Knowledge Translation Activities - (new section added September 2012)

A. Surveillance – General

Publications:


   http://www.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=5&atIKy=3758&isuKy=419&isArt=t&fromfold=

   http://www.journals.elsevierhealth.com/periodicals/yspid/article/S1045-1870(03)00036-0/abstract


5. (IMPACT Highlights) Parents who reject immunizations: losing life’s lottery. Paediatrics & Child Health 1999; 4:117

   http://www.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=5&atIKy=6407&isuKy=446&isArt=t&fromfold=

IMPACT (by topic) publications presentations list October 2018
7. (Upshots) Vaccination site reaction or bacterial cellulitis? Paediatric Child Health 2009; 14-4, 245
   http://www.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=5&atlkY=8737&isuKy=848&isArt=t&fromfold


Presentations:


3. Scheifele DW and Members of the CPS/LCDC IMPACT Surveillance Network. IMPACT-a pediatric hospital-based active surveillance system for vaccine-associated adverse events. Proceedings of the National Immunization Conference "Immunization in the 90s: Challenges and Solutions", Quebec City, October 7, 1994


6. Sophie Bouchard. Adverse event following immunization active paediatric surveillance: From case identification to reporting. Recent experience in an IMPACT hospital – Poster presentation # 72 at the 12th Canadian Immunization Conference Ottawa, Ontario Wednesday Dec 7, 2016

**B. Vaccine Safety**

**Bacille Calmette-Guérin**

*Publications:*

   

   
   [http://journals.lww.com/pidj/Abstract/2005/06000/Serious_Adverse_Events_Associated_with_Bacille.12.aspx](http://journals.lww.com/pidj/Abstract/2005/06000/Serious_Adverse_Events_Associated_with_Bacille.12.aspx)

*Presentations:*


**Encephalopathy**

*Publications:*

   
**Presentations:**


4. Jennifer Tam. Review of encephalitis and encephalopathy cases following immunization reported to the Canadian Immunization Monitoring Program ACTive (IMPACT) from 1992-2012 –Poster presentation # 77 at the 12th Canadian Immunization Conference Ottawa, Ontario Wednesday Dec 7, 2016

**Guillain Barré Syndrome**

**Publications**


**Presentations**


a) 8th International Vaccine and ISV Congress October 26-28, 2014 in Philadelphia, USA

b) 11th Canadian Immunization Conference December 2-4, 2014 in Ottawa, Ontario
Hypotonic-Hypo responsive episodes

Publications:

   http://pediatrics.aappublications.org/cgi/content/full/112/5/e348

Presentations:


Infantile Spasms

Presentations:

Injection Site Reactions

Presentations:

**Intussusception**

*Presentations*

1. L. Sauve, J. Bettinger, D. Scheifele, J. Kalil, W. Vaudry, S. Halperin, N. Le Saux, B. Law, for the members of the Immunization Monitoring Program Active (IMPACT) Immunization Monitoring Program Active Surveillance For Intussusception in Canada Poster presentation at the 7th World Congress for Pediatric Infectious Diseases, November 16-19th, 2011 Melbourne, Australia

**Seizures**

*Publications*


*Presentations:*


**Thrombocytopenia**

*Publications:*


2. Sauvé, Laura J. MD, MPH; Bettinger, Julie PhD; Scheifele, David MD; Halperin, Scott MD; Vaudry, Wendy MD; Law, Barbara MD; the members of the Canadian Immunization Monitoring Program, and Active (IMPACT). Post Vaccination Thrombocytopenia in Canada. The Pediatric Infectious Disease Journal; Brief Reports June 2010; Volume 29: Issue 6, pp 559-561

*Presentations:*


Adverse Event Other:

Presentations:


C. Vaccine Preventable Diseases

Publications:

Haemophilus influenzae


14. (IMPACT Highlights) Haemophilus Influenzae type b disease control using Pentacel®. Paediatrics & Child Health. 2000; 5-3; 155


16. Joanne McNair, BSc Pharm ; Alyssa Smith, MD ; Julie A. Bettinger, PhD, MPH ; Wendy Vaudry, MD; Ben Tan, MD ; Shalini Desai, MD, MSc, Scott A. Halperin, MD; Karina A. Top, MD, MS for the Canadian Immunization Monitoring Program Active (IMPACT) Investigators. Invasive *Haemophilus influenzae* type b (Hib) infections in children with cancer in the era of infant Hib immunization programs (1991–2014): A report from the Canadian Immunization Monitoring Program Active. The Pediatric Infectious Disease Journal Published: Volume 37, number 7, July 2018

**Presentations:**


Influenza

Publications:


   http://pediatrics.aappublications.org/cgi/content/full/118/3/e610


   http://www.sciencedirect.com/science/article/B6TD4-4YGHCBD-3/2/343554a0bec2575e4d744367f0d0699e

   http://pediatrics.aappublications.org/content/130/3/397.full.html

6. Catherine Burton, MD, Wendy Vaudry, MD, Dorothy Moore, MD, Julie A. Bettinger, PhD, MPH, Dat Tran MD, MSc, Scott A. Halperin, MD, and David W. Scheifele, MD, for the IMPACT investigators. Burden of Seasonal Influenza in Children With Neurodevelopmental Conditions. The Pediatric Infectious Disease Journal Volume 33, Number 7, July 2014, 710-714
   http://journals.lww.com/pidj/Abstract/2014/07000/Burden_of_Seasonal_Influenza_in_Children_With.7.aspx

IMPACT (by topic) publications presentations list October 2018
Presentations:


5. Wootton S, Vaudry W, Moore D, Scheifele D, Halperin S, Tam T, for IMPACT Investigators. Monitoring Influenza Infections in Children Using a Hospital-Based Surveillance System, Canadian Immunization Monitoring Program Active, and (IMPACT) Poster presentation at the Options for the Control of Influenza VI Conference; 2007; June 17-23; Toronto, ON Abstract P134

6. De Serres G, and the Canadian Immunization Monitoring Program Active. Effectiveness of Trivalent Inactivated Influenza Vaccine to Prevent Hospitalization in Children 6-23 months of Age during Two Influenza Seasons in Canada. Poster presentation at the Options for the Control of Influenza VI Conference; 2007; June 17-23; Toronto, ON. Abstract P723


**Neisseria Meningitidis**

**Publications:**


4. Julie A. Bettinger, PhD, David W. Scheifele, MD, Nicole Le Saux, MD, Scott A. Halperin, MD, Wendy Vaudry, MD and Raymond Tsang, PhD, for the Members of the Canadian Immunization Monitoring Program, Active (IMPACT) The Pediatric Infectious Disease Journal Volume 32, Number 1, January 2013, e20–e25. The Disease Burden of Invasive Meningococcal Serogroup B Disease in Canada [http://journals.lww.com/pidj/Abstract/2013/01000/The_Disease_Burden_of_Invasive_Meningococcal.11.aspx](http://journals.lww.com/pidj/Abstract/2013/01000/The_Disease_Burden_of_Invasive_Meningococcal.11.aspx)

5. Julie A. Bettinger, PhD, David W. Scheifele, Scott A. Halperin, Wendy Vaudry, Jamie Findlow, Ray Borrow, Duccio Mendini, Raymond Tsang, for the members of the Canadian Immunization Monitoring Program, Active (IMPACT) Diversity of Canadian meningococcal serogroup B isolates and estimated coverage by an investigational meningococcal serogroup B vaccine (4CMenB). Vaccine 32 (2014) 124-130 [http://dx.doi.org/10.1016/j.vaccine.2013.03.063](http://dx.doi.org/10.1016/j.vaccine.2013.03.063)

6. Manish Sadarangani, David W. Scheifele, Scott A. Halperin, Wendy Vaudry, Nicole Le Saux, Raymond Tsang, and Julie A. Bettinger, for the investigators of the Canadian Immunization Monitoring Program, ACTive (IMPACT). The Impact of Meningococcal Serogroup C Conjugate Vaccine in Canada Between 2002 and 2012, Clinical Infectious
7. Manish Sadarangani; David W. Scheifele; Scott A. Halperin; Wendy Vaudry; Nicole Le Saux; Raymond Tsang; Julie A. Bettinger Outcomes of invasive meningococcal disease in adults and children in Canada between 2002 and 2011: a prospective cohort study Clinical Infectious Diseases (2015) 60 (15 April) e27-35

http://cid.oxfordjournals.org/content/early/2015/01/19/cid.civ028.abstract?keytype=ref&ijkey=JXtuHJbZsXH95Me

Presentations:


15. Sadarangani, Manish; Halperin, Scott A.; Vaudry, Wendy; Le Saux, Nicole; Tsang, Raymond; Scheifele, David W; Bettinger, Julie A. Outcomes of Invasive Meningococcal Disease in Canadian Children and Adults between 2002 and 2010. E-Poster P008, Presented at the 10th Canadian Immunization Conference, Monday December 3, 2012 Vancouver BC.

16. Bettinger, Julie A.; Scheifele, David W.; Halperin, Scott A.; Le Saux, Nicole; Vaudry, Wendy; Findlow, Jamie; Borrow, Ray; Medini, Duccio; Tsang, Raymond. Estimated Coverage of Canadian Meningococcal Serogroup B Isolates by an Investigational Meningococcal Serogroup B Vaccine (4CMenB). E-Poster P009, Presented at the 10th Canadian Immunization Conference, December 3, 2012 Vancouver BC.

17. Sadarangani, Manish; Halperin, Scott A; Vaudry, Wendy; Le Saux, Nicole; Tsang, Raymond; Scheifele, David W.; Bettinger, Julie A. A Decade of Serogroup C Neisseria Meningitidis Surveillance in Canada Poster P156, Presented at the 10th Canadian Immunization Conference, December 3-5, 2012 Vancouver BC.


   b) Poster presentation # 18 at the 12th Canadian Immunization Conference Ottawa, Ontario Wednesday Dec 7, 2016


21. NEW* Manish Sadarangani, Morris Shaun K. Morris, Nicole Le Saux, Karina A. Top, Wendy Vaudry, Scott A. Halperin, Julie A. Bettinger, Raymond Tsang; for members of the Canadian Immunization Monitoring Program Active (IMPACT). Molecular epidemiology

Pertussis

Publications:


7. Greenberg, David P. MD; Doemland, Martha Phd; Bettinger, Julie A. PhD, MPH; Scheifele, David W. MD; Halperin, Scott A. MD; Waters, Valerie MD; Kandola, Kami MD, MPH; for the IMPACT Investigators. Epidemiology of Pertussis and Haemophilus influenzae type b Disease in Canada with Exclusive Use of Diptheria-Tetanus-Acellular


Presentations:


Polio – Acute Flaccid Paralysis Surveillance

Presentations:


Rotavirus

Publications:


4. Le Saux, Nicole MD; Bettinger, Julie PhD; Déry, Pierre MD; Embree, Joanne MD; Vaudry, Wendy MD; Halperin, Scott A. MD; McDermid, Andrew BSc; Booth, Timothy F. PhD; Coyle, Doug PhD The Hidden Costs and Characteristics of Childhood Emergency Visits in Canada. The Pediatric Infectious Disease Journal, Volume 31 Issue 2 February 2012 pp 159-163 http://journals.lww.com/pidj/Abstract/publishahead/The_Hidden_Costs_and_Characteristics_of_Childhood.98895.aspx
5. Doug Coyle MA MSc PhD, Kathryn Coyle BSc Pharm MSc, Julie A Bettinger MPH PhD, Scott A Halperin MC FRCPC, Wendy Vaudry MD FRCPC, David W Scheifele MD FRCPC, Nicole Le Saux MD FRCPC. Cost Effectiveness of infant vaccination for rotavirus in Canada. Canadian Journal of Infectious Diseases and Medical Microbiology 2012; 23(2):71-77
   http://www.pulsus.com/journals/abstract.jsp?sCurrPg=journal&jnlKy=3&atlKy=10634&isuKy=1027&spage=1&isArt=t

   http://www.biomedcentral.com/1471-2334/12/306

Presentations:


   http://www.sciencedirect.com/science/article/B6T7H-4WM1TNM2D/2/a44d387c93bb9d263a227325168d5a1c

   http://www3.interscience.wiley.com/cgi-bin/fulltext/123197982/PDFSTART


**Streptococcus Pneumoniae**

**Publications:**


   http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/00vol26/dr2618ea.html

   http://www.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=3&atKy=4876&isuKy=683&isArt=t&fromfold=


   http://journals.lww.com/pidj/Abstract/2002/10000/Outcome_of_penicillin_nonsusceptible_Streptococcus.4.aspx


Presentations:


6. Greenberg D, Mahenthiralingham E, Speert D, Scheifele D. Spread of an


http://www.pulsus.com/journals/JnlSupToc.jsp?sCurrPg=journal&jnlKy=5&supKy=475


20. Joanne McNair. Impact of conjugate vaccines on Haemophilus influenzae type b (Hib) and Streptococcus pneumoniae in children with cancer: A report from the Canadian Immunization Monitoring Program Active (IMPACT) Poster presentation # 40 at the 12th Canadian Immunization Conference Ottawa, Ontario Wednesday Dec 7, 2016


**Varicella**

**Publications:**

   [http://pediatrics.aappublications.org/cgi/content/abstract/104/1/1](http://pediatrics.aappublications.org/cgi/content/abstract/104/1/1)

   [http://pediatrics.aappublications.org/cgi/content/abstract/104/1/7](http://pediatrics.aappublications.org/cgi/content/abstract/104/1/7)


Presentations:

2. Law BJ, Scheifele DW and Members of the CPS/LCDC Immunization Monitoring Program, Active (IMPACT). Impact of varicella zoster immune globulin on hospital course of chickenpox among immunocompromised children. 35th ICAAC, San Francisco, September, 1995 (Abstract # H141)


4. Law B, Fitzsimon C, McCormick J, Michaliszyn A, Ford-Jones E and Members of


8. NEW* Ben Tan, Julie Bettinger, Athena McConnell, Roseline Thibeault, Taj Jadavij, Francesca Reyes Domingo, Heather Samson, Alberto Severini, Wendy Vaudry, Scott Halperin, for the members of IMPACT, Surveillance and Epidemiology Division, National Microbiology Laboratory, Varicella hospitalizations in IMPACT (Immunization Monitoring Program, Active) centers after introduction of 1- and 2-dose varicella vaccination programs between 2000 and 2015. Poster presentation at the 95th Canadian Paediatric Society Annual Conference, May 30-June 2, 2018, Quebec City, Quebec. Oral abstract presentation at the Canadian Immunization Conference, Ottawa, Ontario, December 4, 2018

Zoster

Publications:
   http://journals.lww.com/pidj/Abstract/2008/02000/The_Epidemiology_of_Children_Hospitalized_With.4.aspx

Presentations:
1. Wootton S, Law B, Tan B, Scheifele D. The Epidemiology of herpes Zoster Among Children Hospitalized In Canadian Immunization Monitoring Program Active (IMPACT) Centers. Poster presentation # 112 at the 83rd Annual Conference of the Canadian Paediatric Society, June 15, 2006, St. John’s, NL. (Judged best Fellows’ poster

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D. Other Knowledge Translation activities

This new section, added in September 2012, will include activities that are notable contributions to the greater good. There have been many KT activities in the past but only 2012 onwards will be added.

• **Lecturing and Coaching:**
  June 2012: A plenary lecture was given by Dr. David Scheifele at the 13th National Immunization Conference in Darwin, Australia. “Canada’s Immunization Monitoring Program, Active (IMPACT): Looking back, looking forward”. This lecture invitation then enabled “coaching” with the faculty of the PAEDS surveillance network (Australia’s IMPACT equivalent).

• **Federal/Provincial/Territorial Information sharing:**
  Quebec Provincial Advisory committee - provided a summary of the Quebec IMPACT influenza surveillance from 2009-2012 including fatalities.

• **International Information sharing:**
  FDA requested some copies of already presented abstracts and posters with respect to surveillance of meningococcal invasive infections.

• **Liaison with other networks:**
  A new liaison member of ISARIC - *International Severe Acute Respiratory Infection Consortium*. ISARIC is a multi-regional collaboration of research networks with a focus on Investigator-led clinical studies in adults and children. ISARIC’s mission is both to conduct world-class clinical research in the inter-pandemic influenza period and to provide a collaborative platform through which clinical studies could be undertaken rapidly in response to the emergence of a novel respiratory pathogen or other new infectious disease outbreak. [http://isaric.tghn.org/about/](http://isaric.tghn.org/about/)

• Collaborated with the PRIDE (Post-pandemic Review of anti-Influenza Drug Effectiveness) study group which is conducting a patient-level global meta-analysis on the effectiveness of antiviral use on outcomes of public health importance during the 2009/10 (swine) influenza A/H1N1v. [http://www.nottingham.ac.uk/research/groups/healthprotection/projects/pride.aspx](http://www.nottingham.ac.uk/research/groups/healthprotection/projects/pride.aspx)

• IMPACT collaborates with Global Research in Paediatrics Project (GRiP), funded by the European commission. The aim of GRiP is to stimulate and facilitate the development of and safe use of medicines and vaccines in children. Databases are not linked but non-nominal data common to multiple databases are extracted and merged. S. Halperin participated on behalf of IMPACT. [http://www.grip-network.org/index.php/cms/en/home](http://www.grip-network.org/index.php/cms/en/home)
• IMPACT collaborates with the Brighton Collaboration as part of Canada’s national AEFI reporting system. [https://brightoncollaboration.org/public](https://brightoncollaboration.org/public)

• Acknowledged by Paul Adamiak et al. *Effectiveness of the standard and an alternative set of Streptococcus pneumoniae multi locus sequence typing primers* BMC Microbiology 2014, 14:143 [http://www.biomedcentral.com/1471-2180/14/143](http://www.biomedcentral.com/1471-2180/14/143)


• Data requests from PHAC epidemiologists for updating sections of the Canadian Immunization Guide

• (Upshots) How best to describe the risk of meningococcal B infection? Paediatric Child Health 2013; 18-10; 543


• Acknowledged by Thoon et al. *Active surveillance of adverse events following childhood immunization in Singapore* Vaccine 32 (2014) 5000-5005 (Page 5001: “The hospital-based active surveillance program was loosely adapted from the Canadian Immunization Monitoring Programme, Active (IMPACT).”)[www.sciencedirect.com/science/article/pii/S0264410X14009463](http://www.sciencedirect.com/science/article/pii/S0264410X14009463)

• Hospital Pediatric Resident Research day presentations on various IMPACT data: Sick kids – Toronto 2014; Stollery- Edmonton 2014 : Wendy Vaudry on previously published data -PIDJ Volume 33, Number 7, July 2014, 710-714; at the University of Alberta, Department of Pediatrics Research day; May 30, 2014 *Burden of Seasonal Influenza in Children With Neurodevelopmental Conditions*

• Influenza Surveillance Expert Working Group (SEWG) December 9, 2015 – Julie Bettinger

• CIRN/CCfV Research Education Series IMPACT presentation on May 8, 2015 and January 8, 2016: Heather Samson

• Dr. Karina Top. Canadian Immunization Monitoring Program, Active (IMPACT): 25 years of surveillance presented at the 10th Anniversary Showcase of PAEDS – Paediatric Active Enhanced Disease Surveillance, Melbourne Australia July 26, 2017
• Dr. Nicole Le Saux. IMPACT: A Model of Active Surveillance presented at the Vaccine Sciences Symposium, Toronto Ontario November 15, 2017

• Dr Scott Halperin. Overview of IMPACT, Canada’s Immunization Monitoring Program ACTive, presented to the Canadian Immunization Registries network on September 25, 2018