Publications and Presentations List

“By Topics” List

February 2020

NEW*
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.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=5&atIKy=3758&isuKy=419&isArt=t&fromfold=)


   [http://www.cps.ca/english/statements/ID/impact17yr.htm](http://www.cps.ca/english/statements/ID/impact17yr.htm)

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

6. (IMPACT Highlights) Invasive Haemophilus influenzae type b cases - 2004 
   Autistic children get serious infections, too. Paediatrics & Child Health 2005; 10-6; 314  
   [http://www.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=5&atIKy=6407&isuKy=446&isArt=t&fromfold=](http://www.pulsus.com/journals/abstract.jsp?sCurrPg=abstract&jnlKy=5&atIKy=6407&isuKy=446&isArt=t&fromfold=)
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:
   http://www.pulsus.com/journals/JnlSupToc.jsp?sCurrPg=journal&jnlKy=5&supKy=475

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
7. Dat Tran, Wendy Vaudry, Dorothy Moore, Julie A. Bettinger, Scott A. Halperin, David W. Scheifele, Taj Jadvji, Liza Lee, Teresa Mersereau, for the members of the Canadian Immunization Monitoring Program Active. Hospitalization for Influenza A Versus B
Pediatrics Sep 2016, 138 (3) e20154643; DOI: 10.1542/peds.2015-4643
https://pediatrics.aappublications.org/content/pediatrics/138/3/e20154643.full.pdf

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


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

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


Presentations:


children among hospitalized meningococcal cases across Canada, IMPACT 2002-2006. 11th Annual Conference on Vaccine Research, Baltimore, MD, May 5-7, 2008 (abstract S34)


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


22. Nicole Le Saux, Julie A. Bettinger, Manish Sadarangani, Shaun K. Morris, Karina A. Top, Wendy Vaudry, Scott A. Halperin and Raymond Tsang on behalf of the members of the Canadian Immunization Monitoring Program, Active (IMPACT). The Epidemiology of Invasive Meningococcal Disease (IMD) over 16 years after start of Meningococcal Vaccine Programs in Canada. Oral abstract presentation at the Canadian Immunization Conference, Ottawa, Ontario, December 4, 2018

Pertussis

Publications:


   [http://www.journals.uchicago.edu/doi/pdf/10.1086/514792](http://www.journals.uchicago.edu/doi/pdf/10.1086/514792)


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 Pertussis-Inactivated Poliovirus-Haemophilus influenzae type b Pediatric Combination Vaccine and an Adolescent-Adult Tetanus-Diptheria-Acellular Pertussis Vaccine: Implications for Disease prevention in the United States. The Pediatric Infectious Disease Journal; June 2009; 28(6): 521-528


Presentations:


3. Ambrose A, Samson H, Mikelova LK, Halperin SA, Scheifele DW, for Members for the CPS/LCDC Immunization Monitoring Program Active (IMPACT). Clinical and
epidemiological evaluation of ten fatal cases of pertussis in Canada: a case control study. 4th Annual CNIC, December 3-6, 2000 Halifax, NS. (Abstract P2)


Polio – Acute Flaccid Paralysis Surveillance

Presentations:


Respiratory Syncytial Virus

Presentations:
1. Simran Sandhu, Amanda Shane, Christina Bancej, Wendy Vaudry, Joanne Embree, April Killikelly, Matthew Tunis, Althea House, Julie Bettinger, Nicole Le Saux, Joanne Langley, Marc Lebel, Dorothy Moore, Shaun Morris, Jesse Papenburg, Joan Robinson, Manish Sadarangani, Dorothy Moore, Taj Jadavji, Dat Tran, Scott Halperin on behalf of the Public Health Agency of Canada and the Canadian Immunization Monitoring Program ACTive. The Epidemiology of Respiratory Syncytial Virus (RSV) Amongst the Hospitalized Paediatric Population in Canada, 2017-2018. Poster presentation at the 5th International Neonatal and Maternal Immunization Symposium (INMIS) in Vancouver, British Colombia, on September 15-17, 2019

Rotavirus

Publications:
1. Le Saux, Nicole MD; Bettinger, Julie A. PhD; Halperin, Scott A. MD; Vaudry, Wendy MD; Scheifele, David W. MD; for Members of the Canadian Immunization Monitoring Program, Active (IMPACT) Substantial Morbidity for Hospitalized Children With Community Acquired Rotavirus Infections: 2005-2007 Impact Surveillance in Canadian


4. Le Saux, Nicole MD; Bettinger, Julie PhD; Déry, Pierre MD; Embree, Joanne MD; Vaudry, Wendy MD; Halperin, Scott A. MD; Mc Dermid, 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](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 FRCP, Wendy Vaudry MD FRCP, David W Scheifele MD FRCP, Nicole Le Saux MD FRCP. 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.pulsus.com/journals/abstract.jsp?sCurrPg=journal&jnlKy=3&atlKy=10634&isuKy=1027&spage=1&isArt=t)


**Presentations:**

1. Cook N, MacDonald NE, Sockett P for Members of IMPACT, Canadian Paediatric Society,
1. Laboratory Centre for Disease Control. Ottawa, Ontario, Canada. Prospective study of rotavirus (RV) hospitalizations in infants < 24 mo in 11 pediatric hospitals in Canada. Poster, 36th Infectious Diseases Society of America, Nov 1998


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

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


Canadian Immunization Conference December 2-4, 2014 in Ottawa, Ontario


**Streptococcus Pneumoniae**

*Publications:*


   [http://www.journals.uchicago.edu/doi/full/10.1086/313923](http://www.journals.uchicago.edu/doi/full/10.1086/313923)


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


    http://www.sciencedirect.com/science/article/B6TD4-4Y1VXG4-2/2/389e2db874e001bc95b35cb5209b3746

Presentations:
1. Scheifele DW, Gold R, Talbot J and Members of the CPS/LCDC Immunization Monitoring Program, Active (IMPACT). A national survey of invasive pneumococcal infections in


http://www.pulsus.com/journals/JnISupToc.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/104/1/7

   http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/00vol26/dr2615ea.html

   http://journals.lww.com/pidj/Abstract/2000/11000/The_Immunization_Monitoring_Program_Active.5.aspx

   http://www.pulsus.com/journals/abstract.jsp?CurrPg=abstract&jnlKy=5&atKy=7082&isuKy=457&isArt=t&fromfold=

6. Tan, Ben MD, Bettinger, Julie PhD, McConnell, Athena MD, MSc, Scheifele, David MD, Halperin, Scott MD, Vaudry, Wendy MD, Law, Barbara MD, for Members of the
http://journals.lww.com/pidj/Abstract/2012/09000/The_Effect_of_Funded_Varicella_I mmunization.23.aspx

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)


8. 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:

1. Wootton SH, Law B, Tan B, Mozel M, Scheifele D, Halperin S. The epidemiology of
children hospitalized with herpes zoster in Canada: Immunization Monitoring Program,
Active (IMPACT) 1991-2005. The Pediatric Infectious Disease Journal; February 2008; 27
(2): 112-16
http://journals.lww.com/pidj/Abstract/2008/02000/The_Epidemiology_of_Children_Ho
spitalized_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

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 pneumonia 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

• 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 Julie Bettinger presented “Overview of IMPACT and IMPACT’s Influenza Surveillance” at the National Centre for Immunisation Research and Surveillance, April 23, 2018, Sydney, Australia

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

• Dr Wendy Vaudry: “The Immunization Monitoring Program, Active: The IMPACT of a generation of surveillance in Canada” presented at the University of Alberta Infectious Diseases academic rounds, November 2018, Edmonton, Alberta
• Dr Wendy Vaudry: IMPACT presented in the Department of Pediatrics Working Wonders annual review, April 2019, Edmonton, Alberta.  
  https://issuu.com/ualbertadepartmentofpediatrics/docs/ww_prepress_2up/26