

Giulia M. Muraca, PhD, MPH

Depts of Obstetrics & Gynecology and Health Research Methods, Evidence & Impact, Faculty of Health Sciences, McMaster University | muracag@mcmaster.ca

CURRENT POSITION

Sep 2021 – present	Assistant Professor Dept of Obstetrics & Gynecology Dept of Health Research Methods, Evidence & Impact Faculty of Health Sciences McMaster University
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EDUCATION & POSTDOCTORAL TRAINING

Sep 2018 – Aug 2021	Postdoctoral Fellow (Perinatal epidemiology) Clinical Epidemiology Unit Department of Medicine, Solna Karolinska Institutet Stockholm, Sweden <u>Post-doc specialization</u> : International comparisons of cesarean delivery rates and perinatal outcomes: Identifying targets for safely reducing the cesarean deliveries
Sep 2011 – Apr 2018	Doctor of Philosophy (Population and Public Health) School of Population & Public Health, University of British Columbia, Vancouver, BC, Canada <u>Dissertation</u> : Operative delivery options in the second stage of labour: optimizing maternal and perinatal safety.
Sep 2008 – May 2010	Master of Public Health (Maternal & Child Health) School of Population & Public Health, University of British Columbia, Vancouver, BC, Canada <u>Thesis</u> : Formative Research into Water, Sanitation, and Hygiene Practices in Oshitenda, Namibia.
Sep 2005 – Jun 2008	Honours Bachelor of Science (Biological Anthropology & African Studies), University of Toronto, Toronto, ON, Canada <u>Thesis</u> : Insights into Ongwediva youth: perceived challenges in the communication of HIV/AIDS information and risk reduction strategies in northern Namibia.

LEAVES OF ABSENCE

Parental leave

Oct 2014 – Jun 2015

Dec 2012 – Sep 2013

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RESEARCH FUNDING HISTORY (TOTAL ~\$2,320,000 CAD)

Oct 2022 – Sep 2027	<p>Project Grant (Co-Investigator- \$442,170) Canadian Institutes of Health Research Project: Health and neurodevelopmental trajectories of children and adolescents born at preterm and term gestation Personal role: methodological support, drafted sections summarizing literature and study design.</p>
Jan 2022 – Dec 2023	<p>Academic Health Science Centre/ Alternate Funding Plan (AHSC AFP) Innovation Fund (Principal Investigator - \$189,300) Hamilton Academic Health Sciences Organization Project: Racial and ethnic disparities in postpartum hemorrhage Personal role: Conceived of project, methods, analysis. Lead on operationalizing research plan</p>
Dec 2021 – Nov 2022	<p>Innovations Grants Programme for Racial Equality in Reproductive Medicine and Maternal Health (Principal Investigator - €20,000) Ferring Pharmaceuticals International Project: Racial and ethnic disparities in postpartum hemorrhage Personal role: Conceived of project, methods, analysis. Lead on operationalizing research plan.</p>
Sep 2021 – Aug 2023	<p>Operating Grant: COVID-19 Research Gaps and Priorities (Co-Investigator - \$168,300) Canadian Institutes of Health Research Project: All-cause and cause-specific acute morbidity attributable to Covid-19 epidemic, severe Covid-19 symptoms, and adverse birth outcomes in Canada. Personal role: methodological support, drafted sections summarizing literature and study design.</p>
Sep 2020 – Aug 2024	<p>Project Grant (Co-Investigator- \$355,725) Canadian Institutes of Health Research Project: Chronic diseases in mothers and risks of neuro-developmental disorders in offspring: an international comparison Personal role: methodological support, drafted sections summarizing literature and study design.</p>
May 2020 – April 2021	<p>COVID-19 Research Response Fund (Collaborator – \$110,000) Michael Smith Foundation for Health Research</p>

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	<p>Project: All-cause and cause-specific mortality and acute morbidity attributable to COVID-19 and medical history associated with severe COVID-19 infection in BC</p> <p>Personal role: methodological support, drafted sections summarizing literature and study design.</p>
Mar 2020 – Feb 2021	<p>Operating Grant (Co-Investigator - \$75,000) Canadian Institutes of Health Research</p> <p>Project: Health and developmental trajectories of infants born with Neonatal Abstinence Syndrome: sex differences and implications for harm reduction</p> <p>Personal role: methodological support, drafted sections summarizing literature and study design.</p>
Jan 2020 – Dec 2023	<p>Project Grant (Co-Investigator - \$2,400,000 SEK, ~\$330,000CAD) Swedish Research Council</p> <p>Project: Novel approaches for improved prediction of intrapartum morbidity</p> <p>Personal role: contributions to application conceptually and methodologically, drafted sections summarizing literature, statistical plan, data analysis, and study design.</p>
Jan 2020 – Dec 2023	<p>Project Grant (Co-Investigator - \$4,300,000 SEK, ~\$590,000CAD) Swedish Research Council for Health, Working Life and Welfare</p> <p>Project: Chronic diseases in mothers and risks of neurodevelopmental disorders in offspring: an international comparison</p> <p>Personal role: methodological support, drafted sections summarizing literature and study design.</p>

SALARY AWARDS (TOTAL ~\$410,000 CAD)

Date	Award Scope of Competition	Funding source
Apr 2018	<p>Post-doctoral Fellowship (\$150,000) Highly competitive national training award. Ranked in 3rd percentile of 1067 applicants. \$50,000/yr for 3 yrs.</p>	Canadian Institutes of Health Research
Sep 2013	<p>Vanier Canada Graduate Scholarship (\$150,000) Highly competitive national award available to Canadian and international PhD students</p>	Canadian Institutes of Health Research

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	studying at Canadian universities. Created to attract and retain world-class PhD students. \$50,000/yr for 3 yrs.	
Sep 2011	Four Year Doctoral Fellowship - 4YF (\$80,000) Selection based on academic excellence, upon the recommendation of the graduate program.	University of British Columbia
Feb 2009	University of British Columbia Graduate Fellowship (\$7,000) University of British Columbia graduate award for meritorious students who demonstrate academic excellence. <i>Research topic:</i> Effects of environmental factors on the epidemiological of breast cancer	University of British Columbia, Faculty of Graduate Studies
Feb 2009	Pacific Century Graduate Scholarship (\$10,000) University of British Columbia graduate award for meritorious students who demonstrate academic excellence. <i>Research topic:</i> Effects of environmental factors on the epidemiological of breast cancer	University of British Columbia, Faculty of Graduate Studies
Nov 2007	Peter F. Bronfman Gold Scholarship (\$10,000) Awarded to one student for exceptional academic achievement and community service	Woodsworth College, University of Toronto
May 2006	Medical Anthropology Research Bursary for Internship in Namibia (\$4,000)	Department of Anthropology, University of Toronto

TRAVEL AWARDS AND ACADEMIC RECOGNITIONS

Date	Award Scope of Competition	Funding source
Apr 2022	Best Oral Abstract Selected as the top abstract accepted for oral presentation at the 2022 Annual Clinical and Scientific Conference (\$500)	Society of Obstetricians and Gynaecologists of Canada
Apr 2022	'Best of Three' Poster Abstract Selected as one of the top three abstracts accepted for poster presentation at the 2022 Annual Clinical and Scientific Conference	Society of Obstetricians and Gynaecologists of Canada
Apr 2022	UBC Lectureship in Pelvic Reconstructive Surgery (\$1,000) Annual lectureship award to a prominent scholar working on pelvic floor disorders.	UBC Department of Obstetrics and Gynaecology
Apr 2018	Harold A. Kaminetzky Prize Paper for 2017	Obstetrics & Gynecology

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	(\$2,000) To recognize the best article from a non-U.S. researcher each year	(The Green Journal)
Jun 2017	Outstanding Achievement by a Doctoral Student Award Awarded to one doctoral candidate whose demonstrated originality, research ability and capacity for critical thinking identify the individual as likely to become a contributing member of the scientific community.	BC Children's Hospital Research Institute
Nov 2016	Best Presentation, Doctoral Category (\$750) Awarded to one doctoral student for outstanding presentation.	BC Children's Hospital Research Institute
Jul 2012	NICHD-IHDCYH Summer Institute in Reproductive and Pediatric Epidemiology (\$2,500)	National Institute for Child Health and Human Development & Canadian Institute for Health Research
Jul 2012	IHDCYH Summer Institute in Maternal-Fetal Pharmacology (\$2,500)	Canadian Institutes of Health Research
Jul 2010	Young Investigator's Award (\$1,500) Funding to attend conference in Edinburgh entitled "Controversies in Breast Cancer 2010"	Conference Organising Committee
Dec 2007	Gordon Cressy Student Leadership Award To recognize students who have made outstanding extra-curricular contributions to their college, faculty or school, or university.	University of Toronto

PUBLICATIONS SUBMITTED TO PEER-REVIEWED JOURNALS

1. Yearwood L, Bone JN, Wen E, **Muraca GM**, Lyons J, Razaz N, Joseph KS, Lisonkova S. The effects of maternal stature and race/ethnicity on adverse birth outcomes: a population-based retrospective cohort study. Authorea. doi: 10.22541/au.164873328.86661440/v1. (*in revisions, BMJ Open, Aug 2022*).
2. Bone JN, Joseph KS, Magee LA, Mayer C, **Muraca GM**, Razaz N, Lisonkova S. The association between obesity and gestational age-specific rates of adverse perinatal outcomes in the presence of other risk factors. (*submitted to Am J Obstet Gynecol, Aug 2022*)
3. Ladfors LV, Liu X, Sandstrom A, Lundborg L, Snowden JM, Ahlberg M, **Muraca GM**, Butwick A, Stephansson O. First stage labor duration and postpartum hemorrhage. (*submitted to Am J Obstet Gynecol, Oct 2022*).
4. Palumbo A, Kirkwood D, Borkhoff CM, Keown-Stoneman CDG, Fuller A, Birken CS, Maguire JL, Brown HK, **Muraca GM**, Anderson LN. Validation of parent-reported gestational age categories for children less than 6 years of age. (*submitted to Epidemiology, Dec 2022*).

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5. Park M, Wanigaratne S, D'Souza R, Geoffrion R, Williams S, **Muraca GM**. Asian-White disparities in obstetric anal sphincter injury: Protocol for a systematic review and meta-analysis. (*submitted to PLOS One, Dec 22*)
6. Park M, Wanigaratne S, D'Souza R, Geoffrion R, Williams S, **Muraca GM**. Asian-White disparities in obstetric anal sphincter injury. (*submitted to Am J Obstet Gynecol, 2023*)
7. Bariatric surgery paper
8. Joseph KS, Lisonkova S, Boutin A, **Muraca GM**, Razaz N, John S, Sabr Y, Chan WS, Mehrabadi A, Brandt J, Schisterman EF, Ananth CV. Maternal mortality in the United States: An alternative perspective on maternal and pregnancy-associated deaths. (*submitted to ??, 2023*)

REFEREED JOURNAL PUBLICATIONS

1. Joseph KS, Young C, **Muraca GM**, Boutin A, Razaz N, John S, Lisonkova S, Wilson DR. Deliveries to women with a previous cesarean delivery: An ecological study of hospital tier, delivery volume, and maternal and infant outcomes. (*in press, CMAJ, Dec 2022*)
2. Yearwood L, Bone JN, Wen E, **Muraca GM**, Lyons J, Razaz N, Joseph KS, Lisonkova S. Does Maternal Stature Modify the Association Between Small- and Large-For-Gestational Age and Adverse Perinatal Outcomes? A Retrospective Cohort Study. BJOG 2022; doi: 10.1111/1471-0528.17350. **[IF=6.53]**
3. Lisonkova S, Ukah V, John S, Yearwood L, **Muraca GM**, Razaz N, Sabr Y, Yong P, Bedaiwy M. Racial disparities in birth outcomes in pregnancies conceived using medically assisted reproduction. *Pediatrics* 2022; e2021055855. doi: 10.1542/peds.2021-055855. **[IF=9.7]**
4. Lisonkova S, Bone JN, **Muraca GM**, Razaz N, Boutin A, Brandt JS, Bedaiwy MA, Ananth C, Joseph KS. Early coronavirus disease 2019 restrictive measures and changes in maternal characteristics, use of assisted reproductive technology, and stillbirth. *Paediatr Perinat Epidemiol* 2022;00:1-11. doi: 10.1111/ppe.12925. PMID: 36038519 **[IF=3.98]**
5. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Crude and adjusted comparisons of cesarean delivery rates using the Robson classification: A population-based cohort study in Canada and Sweden, 2004 to 2016. *PLoS Med* 2022;19: e1004077. PMID: 35913981. **[IF=11.07]**
6. Tsamantioti E, Lisonkova S, **Muraca GM**, Örtqvist A, Razaz N. Maternal chorioamnionitis and risk of long-term neurodevelopmental disorders in offspring; a population-based cohort study in Sweden. *Am J Obstet Gynecol*; 2022: S0002-9378(22)00199-5. PMID: 35305960. **[IF=10.69]**
7. Razaz N, **Muraca GM**, Lisonkova S, Stephansson O, Cnattingius S, Joseph KS. Time of delivery among low-risk women at 37-42 weeks of gestation and risks of stillbirth and infant mortality, and long-term neurological morbidity. *Pediatr Perinat Epidemiol* 2022;36:577-587. doi:10.1111/ppe.12868. PMID: 35244233. **[IF=3.98]**
8. **Muraca GM**, Boutin A, Razaz N, Lisonkova S, Ting J, Scott H, Kramer MS, Joseph KS. Maternal and neonatal trauma following operative vaginal delivery. *CMAJ* 2022;194:E1-12. PMID: 35012946. **[IF=16.9]**

9. Premawardhena A, Ediriweera D, Sabouhanian A, Allen A, Rees D, de Silva S, Perera W, Katugaha N, Arambepola M, Yamashita RC, Mettananda S, Nilam M, Mehta V, Rafai M, Bandara D, St Pierre T, **Muraca GM**, Fisher C, Kirubarajan A, Khan S, Allen S, Lamabadusuriya SP, Weatherall DJ, Olivieri NF. Survival and complications in patients with haemoglobin E thalassaemia in Sri Lanka: a prospective, longitudinal cohort study. *Lancet Global Health* 2022;10(1):e134-41. PMID: 34843671. **[IF=38.93]**
10. Ladfors LV, **Muraca GM**, Zetterqvist J, Butwick A, Stephansson O. Postpartum haemorrhage trends in Sweden using the Robson 10-group classification system: A population-based cohort study. *BJOG* 2021;00: 1-10. doi: 10.1111/1471-0528.16931. PMID: 34536326. **[IF=6.53]**
11. Boutin A, Lisonkova S, **Muraca GM**, Razaz N, Liu S, Kramer MS, Joseph KS. Bias in comparisons of mortality among very preterm births. *PLOS One* 2021;16:e0253931. PMID: 34191860. **[IF=3.58]**
12. Lisonkova S, Bone J, **Muraca GM**, Razaz N, Wang LQ, Sabr Y, Boutin A, Mayer C, Joseph KS. Incidence and risk factors for severe preeclampsia, HELLP syndrome and eclampsia at preterm and term gestation: a population-based study. *Am J Obstet Gynecol* 2021;225:538.e1-19. PMID: 33974902. **[IF=10.69]**
13. Lisonkova S, Razaz N, Sabr Y, **Muraca GM**, Boutin A, Mayer C, Joseph KS, Kramer MS. Maternal risk factors and adverse birth outcomes associated with HELLP syndrome: A population-based study. *Obstet Anesth Digest* 2021;41:62-3.
14. Joseph KS, Boutin A, Razaz N, **Muraca GM**, Lisonkova S, Ananth CV, Schisterman E. Maternal mortality in the United States: Recent trends, current status and future considerations. *Obstet Gynecol* 2021; 137:763. PMID: 33831914. **[IF=7.66]**
15. Joseph KS, John S, Boutin A, Scime N, Cherian A, Chaput KH, Razaz N, **Muraca GM**, Lisonkova S, Sabr Y, Dendukuri N. Modern obstetrics: Beyond early delivery for fetal or maternal compromise. *2020 Am J Obstet Gynecol MFM* 2021;3:100274. PMID: 33451598.
16. Ladfors LV, **Muraca GM**, Butwick A, Edgren G, Stephansson O. Accuracy of postpartum hemorrhage coding in the Swedish Pregnancy Register. *Acta Obstet Gynecol Scand* 2021; 100:322-30. PMID: 32956490. **[IF=3.64]**
17. Tomson T, **Muraca GM**, Razaz N. Paternal exposure to antiepileptic drugs and offspring outcomes: a nationwide population-based cohort study in Sweden. *J Neurol Neurosurg Psychiatry* 2020;91:907-13. PMID: 32651245. **[IF=13.65]**
18. Razaz N, Villamor E, **Muraca GM**, Edstedt Bonamy MK, Cnattingius, S. Maternal obesity and risk of cardiovascular diseases in offspring: a population-based cohort study and sibling design. *Lancet Diabetes Endocrinol* 2020;8:572-81. PMID: 32559473. **[IF=44.87]**
19. Lisonkova S, Geoffrion R, Sanaee M, **Muraca GM**, Wen Q, Yong PJ, Larouche M, Cundiff G. Regional variation and temporal trends in inpatient prolapse surgery in Canada, 2004-2014. *J Obstet Gynaecol Can* 2020;42:846-52.e5. PMID: 32173237. **[IF=0.89]**
20. Lisonkova S, Razaz N, Sabr Y, **Muraca GM**, Boutin A, Mayer C, Joseph KS, Kramer MS. Maternal risk factors and adverse birth outcomes associated with HELLP syndrome: a population-based study. *BJOG* 2020;127:1189-98. PMID: 32189413. **[IF=6.53]**
21. **Muraca GM**, Liu S, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Stephansson O, Razaz N, Joseph KS. Episiotomy use among vaginal deliveries and the association with anal

- sphincter injury: a population-based retrospective cohort study. CMAJ 2019;191:E1149-58. PMID: 31636163. **[IF=16.9]**
22. Richter LL, Ting J, **Muraca GM**, Boutin A, Wen Q, Lyons J, Synnes A, Lisonkova S. Temporal Trends in Preterm Birth, Neonatal Mortality, and Neonatal Morbidity Following Spontaneous and Clinician-Initiated Delivery in Canada, 2009-2016. J Obstet Gynaecol Can 2019. pii: S1701-2163(19)30269-5. PMID: 31285169. **[IF=0.89]**
23. Lisonkova S, Richter LL, Ting J, **Muraca GM**, Wen Q, Mehrabadi A, Mitchell-Foster S, Oviedo-Joekes E, Lyons J. Neonatal abstinence syndrome and associated neonatal and maternal mortality and morbidity. Pediatrics. 2019 pii: e20183664. PMID: 31300529. **[IF=9.7]**
24. Richter LL, Ting J, **Muraca GM**, Synnes A, Lim KI, Lisonkova S. Temporal trends in neonatal mortality and morbidity following spontaneous and clinician-initiated preterm birth in Washington State, USA: a population-based study. BMJ Open 2019;9:bmjopen-2018-023004. PMID: 30782691. **[IF=2.69]**
25. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Perinatal and maternal morbidity and mortality among term singletons following midcavity operative vaginal delivery versus cesarean delivery. Obstetric Anesthesia Digest 2018;38:202-3.
26. Lisonkova S, **Muraca GM**, Potts J, Liauw J. Association Between Prepregnancy Body Mass Index and Severe Maternal Morbidity. Obstet Gynecol Surv 2018;73:197-8. **[IF=2.35]**
27. **Muraca GM**, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Joseph KS. Morbidity and mortality associated with forceps and vacuum delivery at outlet, low and midpelvic station. J Obstet Gynaecol Can 2018;41:327-37. PMID: 30366887. **[IF=0.89]**
28. **Muraca GM**, Lisonkova S, Skoll A, Brant R, Cundiff GW, Sabr Y, Joseph KS. Ecological associations between operative vaginal delivery and obstetric and birth trauma. CMAJ 2018;190:E734-41. PMID: 29914910. **[IF=16.9]**
29. Young CB, Liu S, **Muraca GM**, Sabr Y, Pressey T, Liston RM, Joseph KS. Mode of delivery following a previous cesarean and associated maternal and neonatal morbidity. CMAJ 2018;190:E556-64. PMID: 29735533. **[IF=16.9]**
30. Wen Q, **Muraca GM**, Ting J, Coad S, Lim KI, Lisonkova S. Temporal trends in severe maternal and neonatal trauma during childbirth: a population-based observational study. BMJ Open 2018;8:e020578. PMID: 29500215. **[IF=2.69]**
31. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Perinatal and maternal morbidity and mortality among term singletons following midcavity operative vaginal delivery versus caesarean delivery. BJOG 2018;125:693-702. PMID: 28692173. **[IF=6.53]**
32. Lisonkova S, **Muraca GM**, Potts J, Liauw J, Chan W, Skoll A, Lim KI. Association between prepregnancy body mass index and severe maternal morbidity. JAMA 2017;318:1777-86. PMID: 29136442. **[IF=157.3]**
33. **Muraca GM**, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Joseph KS. Perinatal and maternal morbidity and mortality after attempted operative vaginal delivery at midpelvic station. CMAJ 2017;189:E764-72. PMID: 28584040. **[IF=16.9]**
34. Joseph KS, Razaz N, **Muraca GM**, Lisonkova S. Methodological Challenges in International Comparisons of Perinatal Mortality. Curr Epidemiol Rep 2017;4:73-82. PMID: 28680794. **[IF=3.16]**

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35. Lisonkova S, Potts J, **Muraca GM**, Razaz N, Sabr Y, Chan W, Kramer MS. Maternal age and severe maternal morbidity: A population-based retrospective cohort study. *PLOS Medicine* 2017;14:e1002307. PMID: 28558024. **[IF=11.07]**
36. Joseph KS, Lisonkova S, **Muraca GM**, Razaz N, Sabr Y, Mehrabadi A, Schisterman E. Factors underlying the temporal increase in maternal mortality in the United States. *Obstet Gynecol* 2017;129: 91-100. PMID: 27926651. **[IF=7.66]**
37. **Muraca GM**, Sabr Y, Brant R, Cundiff GW, Joseph KS. Temporal and regional variations in operative vaginal delivery in Canada by pelvic station, 2004-2012. *J Obstet Gynaecol Can* 2016;38:627-35. PMID: 27591346. **[IF=0.89]**
38. Lisonkova S, Lavery JA, Ananth CV, Chen I, **Muraca GM**, Cundiff GW, Joseph KS. Temporal trends in obstetric trauma and inpatient surgery for pelvic organ prolapse: An age-period-cohort analysis. *Am J Obstet Gynecol* 2016;215:208.e1-208.e12. PMID: 26899905. **[IF=10.69]**
39. Joseph KS, Pressey T, Lyons J, Bartholomew S, Liu S, **Muraca GM**, Liston RM. Once more unto the breech: planned vaginal delivery compared with planned cesarean delivery. *Obstet Gynecol* 2015;125:1162-7. PMID: 25932844. **[IF=7.66]**
40. **Muraca GM**, Joseph KS. Association between maternal age and depression. *J Obstet Gynaecol Can* 2014;36:803-810. PMID: 25222359. **[IF=0.89]**
41. Walter PB, Porter J, Evans P, Kwiatkowski JL, Neufeld EJ, Coates T, Giardina PJ, Grady RW, Vichinsky E, Olivieri N, Trachtenberg F, Alberti D, Fung E, Ames B, Higa A, Harmatz P; **Thalassemia Clinical Research Network**. Increased leucocyte apoptosis in transfused β -thalassaemia patients. *Br J Haematol* 2013;160(3):399-403. doi: 10.1111/bjh.12076. PMID: 23216540. **[IF=8.62]**
42. Olivieri NF, Thayalasuthan V, O'Donnell A, Premawardhena A, Rigobon C, **Muraca GM**, Fisher C, and DJ Weatherall. Emerging insights in the management of hemoglobin E beta thalassemia. *Ann N Y Acad Sci* 2010;1202:155-7. PMID: 20712787. **[IF=6.18]**
43. Olivieri NF, **Muraca GM**, O'Donnell A, Premawardhena A, and DJ Weatherall. Studies in hemoglobin E beta thalassaemia. *Br J Haematol* 2008;141:388-397. PMID: 18410572. **[IF=8.62]**
44. Premawardhena A, De Silva S, Arambepola M, Olivieri NF, Vichinsky EP, Merson L, **Muraca GM**, Allen A, Fisher C, Peto T, Weatherall DJ. Hemoglobin E-beta-thalassemia: Progress report from the International Study Group. *Ann N Y Acad Sci* 2005;1054: 33-9. PMID: 16339649. **[IF=6.18]**
45. Premawardhena A, Fisher CA, Olivieri NF, de Silva S, Arambepola M, Perera W, O'Donnell A, Peto TE, Viprakasit V, Merson L, **Muraca GM**, Weatherall DJ. Haemoglobin E β thalassaemia in Sri Lanka. *Lancet* 2005;366:1467-70. PMID: 16243092. **[IF=202.7]**
46. Premawardhena A, De Silva S, Arambepola M, Olivieri N, Merson L, **Muraca GM**, Allen A, Fisher C, Peto T, Vichinsky E, Weatherall DJ. Thalassemia in Sri Lanka: a progress report. *Hum Mol Genet* 2004;13:203-206. PMID: 15358726. **[IF=6.15]**

NON-REFEREED PUBLICATIONS

Doctoral dissertation

1. **Muraca GM.** Operative delivery options in the second stage of labour: optimizing maternal and perinatal safety. University of British Columbia, 2017.
doi:<http://dx.doi.org/10.14288/1.0365714>.

Letters to the Editor

2. **Muraca GM**, Lisonkova S, Joseph KS. A call for transparency and action regarding the safety of operative vaginal delivery in Canada. *CMAJ*, 2022; 194:E1174. PMID: 36265063.
3. Ladfors LV, **Muraca GM**, Zetterqvist J, Butwick A, Stephansson O. Authors reply re: The Ten Group Classification System - First Things First. *BJOG* 2022. <https://doi.org/10.1111/1471-0528.17057>. PMID: 34985182.
4. **Muraca GM**, Joseph KS. The authors respond to "Routine use of episiotomy with forceps should not be encouraged." *CMAJ* 2020;192:E191-2. PMID: 32094271.
5. **Muraca GM**, Razaz N. Key considerations when comparing outcomes by mode of delivery raise questions about study validity and clinical relevance. *CMAJ* 2019;191:E923. PMID: 31427360.
6. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Authors' reply re: Perinatal and maternal morbidity and mortality among term singletons following midcavity operative vaginal delivery versus caesarean delivery. *BJOG* 2018;125:1492. PMID: 30069997.
7. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Authors' reply re: Perinatal and maternal morbidity and mortality among term singletons following midcavity operative vaginal delivery versus caesarean delivery. *BJOG* 2017;125:758-9. PMID: 29131501.
8. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Authors' reply re: Perinatal and maternal morbidity and mortality among term singletons following midcavity operative vaginal delivery versus caesarean delivery. *BJOG* 2017;125:760. PMID: 29131476
9. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Response to "Data limitations may affect conclusions in study of vaginal delivery at midpelvic station". *CMAJ* 2017;189:E1344-5. PMID: 29084763.
10. **Muraca GM**, Lisonkova S, Joseph KS, Skoll A, Cundiff GW, Brant R, Sabr Y. The authors reply to "The end of forceps deliveries?" and "Beware selection bias". *CMAJ* 2017;189:E1098. PMID: 28847784.
11. **Muraca GM**, Lisonkova S, Joseph KS. Letter to the Editor in response to: Amir, Baharak et al. The long-term pelvic floor health outcomes of women after childbirth: The influence of labour in the first pregnancy. *J Obstet Gynaecol Can* 2017;39:217. PMID: 28302368.

Reports for Government

12. Joseph KS, Young CB, Boutin A, Cherian AM, **Muraca GM**, Razaz N, John S, Lisonkova S. Deliveries to women with a previous cesarean delivery: Maternal and infant outcomes by province/territories, tier of service and hospital, Canada, April 2013 to March 2019. Report of the CIHR Team for Improving Perinatal Health Care Regionalization. Vancouver. Dec 2021.

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13. Boutin A, Cherian AM, Razaz N, **Muraca GM**, John S, Lisonkova S, Joseph KS. Safety of primary cesarean delivery by province/territory, tiers of obstetric service and hospital, April 2013 to March 2019. Report of the CIHR Team on Improved Perinatal Health Care Regionalization. Vancouver. Apr 2021.
14. **Muraca GM**, Boutin A, Cherian AM, Razaz N, John S, Lisonkova S, Joseph KS. Attempted forceps and attempted vacuum delivery: maternal and neonatal trauma rates by province/territories, tier of service and hospital, Canada, April 2013 to March 2019. Report of the CIHR Team on Improved Perinatal Health Care Regionalization. Vancouver. Jul 2021. <https://med-fom-phsr-obgyn.sites.olt.ubc.ca/files/2022/01/OVDReportFINAL2021.pdf>.
15. Joseph KS, Boutin A, John S, **Muraca GM**, Razaz N, Lisonkova S. Modeling SARS-CoV-2 infection and Covid-19 hospitalization rates for symptomatic pregnant women, Canada and British Columbia, Apr 2020. doi.org/10.14288/1.0404517
16. **Muraca GM**. Formative Research into Water, Sanitation, and Hygiene Practices in Oshitenda. Final report submitted to the City of Windhoek, Department of Economic and Community Development, Division of Health Services. City of Windhoek Press: Windhoek, 2009.
17. **Muraca GM**. Insights into Ongwediva youth: perceived challenges in the communication of HIV/AIDS information and risk reduction strategies. Social and cultural aspects of HIV/AIDS in Namibia. University of Toronto & University of Namibia, 2007, pp 31-56.

PUBLISHED ABSTRACTS

1. Bone JN, Joseph KS, Magee LA, **Muraca GM**, Razaz N, Mayer C, Lisonkova S. Do concurrent risk factors modify the effect of pre-pregnancy body-mass-index on adverse perinatal outcomes? Am J Obstet Gynecol 2023;S. (Accepted, Sep 2022)
2. **Muraca GM**, Joseph KS, Razaz N, Lisonkova S, Ladfors LV, Stephansson O. Temporal trends in cesarean delivery in Sweden and British Columbia using the Robson classification: the role of confounding. J Obstet Gynecol Can 2022;44:620. <https://doi.org/10.1016/j.jogc.2022.02.080>
3. **Muraca GM**, Lisonkova S, Razaz N, Joseph KS. Variation in episiotomy use by maternity care provider and associated rates of obstetric anal sphincter injury. J Obstet Gynecol Can 2022;44:620. <https://doi.org/10.1016/j.jogc.2022.02.079>
4. **Muraca GM**, Boutin A, Lisonkova S, Razaz N, John S, Joseph KS. Associations between maternal trauma rates in spontaneous vaginal, attempted forceps, and attempted vacuum deliveries in Canadian hospitals. J Obstet Gynecol Can 2022;44:621. <https://doi.org/10.1016/j.jogc.2022.02.083>
5. **Muraca GM**, Joseph KS, Razaz N, Lisonkova S, Ladfors LV, Stephansson O. Adjusted comparisons of cesarean delivery rates between populations using the Robson classification: a population-based cohort study in Canada and Sweden. J Obstet Gynecol Can 2022;44:621. <https://doi.org/10.1016/j.jogc.2022.02.082>
6. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Outcome-based cesarean delivery rate targets by Robson group: population-based analysis of deliveries

- from Canada and Sweden. *J Obstet Gynecol Can* 2022;44:620.
<https://doi.org/10.1016/j.jogc.2022.02.081>
7. Boutin A, **Muraca GM**, Lisonkova S, Razaz, John S, Joseph KS. Primary cesarean deliveries of term singletons prior to or in labour and risks of severe maternal morbidity: a comparison of Canadian tiers of obstetric services. *J Obstet Gynecol Can* 2022;44:604.
<https://doi.org/10.1016/j.jogc.2022.02.030>
 8. Joseph KS, Young CB, Boutin A, Cherian AM, **Muraca GM**, Razaz N, John S, Lisonkova S. Regionalized perinatal care in Canada: Can small hospitals safely deliver women with a previous cesarean delivery? *J Obstet Gynecol Can* 2022;44:611-2.
<https://doi.org/10.1016/j.jogc.2022.02.053>
 9. Lisonkova S, John S, Yearwood LM, Ukah V, Sabr Y, **Muraca GM**, Razaz N, Bedaiwy MA. Racial disparities in birth outcomes following assisted reproduction. *Am J Obstet Gynecol* 2022;226:S644-S645. <https://doi.org/10.1016/j.ajog.2021.11.1064>
 10. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Evaluating the effect of changes in maternal, infant, and obstetric practice factors on cesarean delivery trends in Sweden and Canada using the Robson classification system. *Paediatr Perinat Epidemiol* 2021;35(S2):47. <https://doi.org/10.1111/ppe.12814>
 11. Yearwood L, Bone JN, Wen Q, **Muraca GM**, Lyons J, Joseph KS, Lisonkova S. Do tall mothers have lower risk of perinatal death irrespective of body-mass-index? *Paediatr Perinat Epidemiol* 2021;35(S2):38. <https://doi.org/10.1111/ppe.12814>
 12. Lisonkova S, Bone J, **Muraca G**, Razaz N, Boutin A, Sabr Y, Joseph KS. 842: Prevention of severe preeclampsia at term gestation among women with chronic hypertension. *Int J Epidemiol* 2021;50(S1):dyab168-394.
 13. Joseph KS, John S, Boutin A, Cherian A, **Muraca GM**, Razaz N, Sabr Y, Lisonkova S. 168: Bayesian interpretation of the ARRIVE trial and implications for modern obstetrics. *Paediatr Perinat Epidemiol* 2021;35(S1):69.
 14. Razaz N, **Muraca G**, Tomson T. 182: Paternal exposure to antiepileptic drugs and offspring outcomes: National-wide population-based cohort study in Sweden. *Paediatr Perinat Epidemiol* 2021;35(S1):74.
 15. Boutin A, Lisonkova S, **Muraca G**, Razaz N, Liu S, Kramer M, Joseph KS. 131: Cohort study of very preterm births: A bias in mortality comparisons. *Paediatr Perinat Epidemiol* 2021;35(S1):54.
 16. Lisonkova S, Boutin A, **Muraca G**, Razaz N, Sabr Y, Joseph KS. 475: Do competing risks matter? The case of chronic hypertension and the incidence of severe preeclampsia. *Am J Obstet Gynecol* 2020; 222: S311–2. <https://doi.org/10.1016/j.ajog.2019.11.491>
 17. **Muraca GM**, Lisonkova S, Sabr Y, Skoll A, Brant R, Cundiff G, Joseph KS. Temporal trends in episiotomy use among spontaneous and operative vaginal deliveries in Canada and the association with obstetric anal sphincter injury. *J Obstet Gynaecol Can* 2019;41:726-7.
<https://doi.org/10.1016/j.jogc.2019.02.212>
 18. **Muraca GM**, Lisonkova S, Sabr Y, Skoll A, Brant R, Cundiff GW, Joseph KS. Delivery options for second stage dystopia: a comparison of operative vaginal and cesarean delivery in terms of severe perinatal and maternal morbidity and mortality. *Am J Obstet Gynecol* 2017;216:S521-2.

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19. Lisonkova S, Potts J, **Muraca GM**, Razaz N, Sabr Y, Chan W. The effect of maternal age on severe maternal morbidity and perinatal outcomes. *Am J Obstet Gynecol* 2017;216:S347.
20. Wen Q, **Muraca GM**, Lim K, Ting J, Lisonkova S. Temporal Trends in Rates of Severe Birth Trauma by Mode of Delivery. *Am J Obstet Gynecol* 2017;216:S367.
21. Lisonkova S, Lavery JA, Ananth CV, Chen I, **Muraca G**, Cundiff GW, Joseph KS. Temporal trends in obstetric trauma and inpatient surgery for pelvic organ prolapse: an age-period-cohort analysis. *Am J Obstet Gynecol* 2016;215:208.e1-12.
22. Sabr Y, Lisonkova S, Al-Nashwan A, **Muraca G**, Young C, Joseph KS. Maternal and infant morbidity associated with uterine rupture. *Am J Obstet Gynecol* 2015;212:S420-1.
23. **Muraca GM**, Joseph KS. Is advanced maternal age associated with an increased risk of depression? American Association for the Advancement of Science Annual Meeting. 2012; Abstract #7797.
24. Ragaz J, Wilson KS, Wong H, **Muraca G**, Hryniuk W, and C Bajdik. Molecular classification with 21 gene assay (oncotype DX(R)) shows in 196,967 ER positive patients high frequency of low recurrence score (LRS) in both node positive and negative breast cancer cohorts. Definition of chemoresistance based on LRS with cost and guideline implications. *Cancer Research*. 2011;71(24);Suppl 3:PD06-01.
25. Ragaz J, Wilson K, **Muraca G**, Budlovsky J, and J Froehlich. Dual estrogen effects on breast cancer: endogenous estrogen stimulates, exogenous estrogen protects. Further investigation of estrogen chemoprevention is warranted. *Cancer Research*. 2010;70(24); Suppl 2:P6-09-09.
26. Olivieri NF, Thayalasuthan V, **Muraca G**, Weatherall DJ, Kim C, Premawardhena A, Perera A, O'Donnell A, and T St. Pierre. Rates of Non-Transfusional Iron Accumulation (NTIA) In Hemoglobin E Thalassemia. *Blood*. 2010;116;5147.
27. Apostoli A, Cipolla A, Kinghorn M, Kaufman J, **Muraca G**, and N Olivieri. Pregnancy in thalassemia patients and their partners in a Canadian population. *Blood*. 2004;106:3835.
28. Cunningham MJ, Macklin EA, **Muraca G**, and EJ Neufeld. Successful pregnancy in thalassemia major women in the Thalassemia Clinical Research Network. *Pediatric Blood & Cancer*. 2004;42;6:516.
29. Muraca S, Taylor CM, **Muraca GM**, Brittenham GM, Olivieri NF. Progression of body iron loading in thalassemia major. *Pediatric Academic Societies*. 2001;E-PASS2001:1141.
30. Muraca S, Taylor CM, **Muraca GM**, Brittenham GM, Olivieri NF. Progression of body iron loading in transfused patients with Sickle Cell Disease. *Pediatric Academic Societies*. 2001;E-PASS2001:1168.

CONFERENCE PAPER PRESENTATIONS – PRESENTING AUTHOR

1. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Temporal trends in cesarean delivery in Sweden and British Columbia using the Robson classification: the role of confounding. Society for Obstetricians and Gynaecologists of Canada (SOGC) Annual Clinical and Scientific Conference, Quebec City, QC, Jun 9, 2022.
2. **Muraca GM**, Razaz N, John S, Lisonkova S, Joseph KS. Variation in episiotomy use by maternity care provider and associated rates of obstetric anal sphincter injury. Society for

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Obstetricians and Gynaecologists of Canada (SOGC) Annual Clinical and Scientific Conference, Quebec City, QC, Jun 9, 2022. **Best oral presentation award***

3. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Outcome-based paradigms to inform optimal intervention rates: an application to cesarean delivery rate target estimation. Health Research Methods, Evidence and Impact Research Day. McMaster University. Virtual Conference. Apr 20, 2022.
<https://www.youtube.com/watch?v=VZfgXWfFulk>
4. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Evaluating the effect of changes in maternal, infant, and obstetric practice factors on cesarean delivery trends in Sweden and Canada using the Robson classification system. Society for Pediatric and Perinatal Epidemiologic Research (SPER) 34th Annual Meeting. Virtual Conference. June 10, 2021.
5. **Muraca GM**, Liu S, Lisonkova S, Sabr Y, Skoll A, Brant R, Cundiff G, Joseph KS. Temporal trends in episiotomy use among spontaneous and operative vaginal deliveries in Canada and the association with obstetric anal sphincter injury. Perinatal Services BC's 4th Biennial Conference: Healthy Mothers and Healthy Babies. Vancouver, BC, Feb 22, 2020.
6. **Muraca GM**, Lisonkova S, Sabr Y, Skoll A, Brant R, Cundiff G, Joseph KS. Temporal trends in episiotomy use among spontaneous and operative vaginal deliveries in Canada and the association with obstetric anal sphincter injury. Society for Obstetricians and Gynaecologists of Canada 75th Annual Clinical and Scientific Conference. Halifax, NS, June 13, 2019.
7. **Muraca GM**, Lisonkova S, Skoll A, Brant R, Cundiff GW, Sabr Y, Joseph KS. Operative vaginal delivery, obstetric trauma, and birth trauma. Society for Pediatric & Perinatal Epidemiologic Research, Baltimore, MD, Jun 18, 2018.
8. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Forceps, vacuum, or cesarean? Evaluating mode of delivery options following an arrest in labour. PSBC's 3rd biennial conference: Healthy mothers and healthy babies: working together to improve perinatal outcomes, Vancouver, BC, May 1, 2018.
9. **Muraca GM**, Lisonkova S, Skoll A, Brant R, Cundiff GW, Sabr Y, Joseph KS. Operative vaginal delivery, obstetric trauma, and birth trauma. Canadian National Perinatal Research Meeting. Banff, AB, Feb 16, 2018.
10. **Muraca GM**, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Joseph KS. Severe perinatal and maternal morbidity and mortality associated with operative delivery. Canadian National Perinatal Research Meeting. Banff, AB, Feb 15, 2018.
11. **Muraca GM**, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Joseph KS. Obstetric trauma associated with operative vaginal delivery, by pelvic station, compared with cesarean delivery in the second stage of labour. 42nd Annual Meeting of the International Urogynecological Association, Vancouver, BC, Jun 22, 2017.
12. **Muraca GM**, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Joseph KS. Evaluation of delivery options for second stage arrest: operative vaginal versus caesarean delivery. 3rd European Congress on Intrapartum Care: Making Birth Safer. Stockholm, Sweden, May 26, 2017.
13. **Muraca GM**, Sabr Y, Lisonkova S, Skoll A, Brant R, Cundiff GW, Joseph KS. Evaluating delivery options in the second stage of labour: operative vaginal versus cesarean delivery.

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University of British Columbia, Obstetrics and Gynaecology Academic Research Day, Vancouver, BC, Mar 8, 2017.

14. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Perinatal and maternal outcomes following attempted operative vaginal delivery at midpelvic station. Canadian National Perinatal Research Meeting, Montebello, QC, Feb 17, 2017.
15. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. Evaluating mode of delivery options following an arrest in the second stage of labour. Health Starts Research Day, BC Children's Hospital Research Institute, Vancouver, Canada, Nov 8, 2016.
16. **Muraca GM**, Skoll A, Lisonkova S, Sabr Y, Brant R, Cundiff GW, Joseph KS. A comparison of neonatal and maternal outcomes following midpelvic instrumental vaginal delivery and cesarean delivery. UBC Lectureship in Reconstructive Pelvic Surgery. Diamond Health Care Centre, Vancouver, BC, May 28, 2014.
17. **Muraca GM**, Joseph KS. Maternal age and major depression: a cross-sectional study. 20th Annual Western Perinatal Research Meeting, Banff, AB, Feb 17, 2012.
18. **Muraca G**, Fitzgerald-Husek A, Fiddler JF, Dauria E. Emerging research on the social and cultural factors of HIV/AIDS in Namibia - Preliminary results of four medical anthropology research initiatives in the Oshana region. *University of Namibia and University of Toronto, Forum on HIV/AIDS in Namibia*. Windhoek, Namibia, University of Namibia, Jul 26, 2006.

CONFERENCE POSTER PRESENTATIONS – PRESENTING AUTHOR

1. **Muraca GM**, Joseph KS, Razaz N, Lisonkova S, Ladfors LV, Stephansson O. Outcome-based cesarean delivery rate targets by Robson group: population-based analysis of deliveries from Canada and Sweden. Society for Pediatric and Perinatal Epidemiologic Research (SPER) 35th Annual Meeting. Chicago, IL. June 13-14, 2022.
2. **Muraca GM**, Boutin A, Lisonkova S, Razaz N, John S, Joseph KS. Associations between maternal trauma rates in spontaneous vaginal, attempted forceps, and attempted vacuum deliveries in Canadian hospitals. Society for Obstetricians and Gynaecologists of Canada (SOGC) Annual Clinical and Scientific Conference, Quebec City, QC, Jun 9, 2022.
3. **Muraca GM**, Joseph KS, Razaz N, Lisonkova S, Ladfors LV, Stephansson O. Adjusted comparisons of cesarean delivery rates between populations using the Robson classification: a population-based cohort study in Canada and Sweden. Society for Obstetricians and Gynaecologists of Canada (SOGC) Annual Clinical and Scientific Conference, Quebec City, QC, Jun 9, 2022.
4. **Muraca GM**, Joseph KS, Razaz N, Ladfors LV, Lisonkova S, Stephansson O. Outcome-based cesarean delivery rate targets by Robson group: population-based analysis of deliveries from Canada and Sweden. Society for Obstetricians and Gynaecologists of Canada (SOGC) Annual Clinical and Scientific Conference, Quebec City, QC, Jun 9, 2022. **"Best of three" Poster presentation***
5. **Muraca GM**, Lisonkova S, Sabr Y, Skoll A, Brant R, Cundiff G, Joseph KS. Temporal trends in episiotomy use among spontaneous and operative vaginal deliveries in Canada and the association with obstetric anal sphincter injury. Canadian National Perinatal Research Meeting. Mont Tremblant, QC, Feb 12, 2019.

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6. **Muraca GM**, Lisonkova S, Sabr Y, Skoll A, Brant R, Cundiff G, Joseph KS. Temporal trends in episiotomy use among vaginal delivery and the association with anal sphincter injury. BC Children's Hospital Research Institute Healthy Starts Research Day, Vancouver, BC, Feb 6, 2019.
7. **Muraca GM**, Lisonkova S, Skoll A, Brant R, Cundiff GW, Sabr Y, Joseph KS. Operative vaginal delivery, obstetric trauma, and birth trauma. BC Children's Hospital Research Institute's Healthy Starts Trainee Research Day, Vancouver BC, Feb 7, 2018.
8. **Muraca GM**. Perinatal and maternal morbidity and mortality associated with attempted midpelvic operative vaginal delivery and cesarean delivery: a population-based retrospective cohort study. 30th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, Jun 19, 2017.
9. **Muraca GM**. Delivery options for second stage dystopia: a comparison of operative vaginal and cesarean delivery in terms of severe perinatal and maternal morbidity and mortality. Annual Society for Maternal-Fetal Medicine Pregnancy Meeting, Las Vegas, NV, Jan 28, 2017.
10. **Muraca GM**, Sabr Y, Brant R, Cundiff GW, Joseph KS. Neonatal and maternal outcomes following midpelvic operative vaginal delivery. 29th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 20, 2016.
11. **Muraca GM**, Sabr Y, Brant R, Cundiff GW, Joseph KS. Temporal and regional variation in operative vaginal delivery by pelvic station, Canada, 2004-2013. 29th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 20, 2016.
12. **Muraca GM**, Sabr Y, Brant R, Cundiff GW, Joseph KS. Temporal and regional variations in operative vaginal delivery by pelvic station, Canada, 2004-2012. Canadian National Perinatal Research Meeting. Banff, AB. Feb 10-13, 2016.
13. **Muraca GM**, Sabr Y, Brant R, Cundiff GW, Joseph KS. Neonatal and maternal outcomes following midpelvic operative vaginal delivery. Canadian National Perinatal Research Meeting. Banff, AB. Feb 10-13, 2016.
14. **Muraca GM**, Joseph KS. Older maternal age and major depression. Society for Pediatric and Perinatal Epidemiologic Research, Minneapolis, MN, Jun 26, 2012.
15. **Muraca GM**, Joseph KS. Is advanced maternal age associated with an increased risk of depression? American Association for the Advancement of Science Annual Meeting, Vancouver, BC, Feb 18, 2012.
16. **Muraca G**. Insights into Ongwediva youth: perceived challenges in the communication of HIV/AIDS information and risk reduction strategies in rural northern Namibia. *First year medical student curriculum*, Medical Sciences Building, University of Toronto, Jan 30, 2007.
17. **Muraca G**. Insights into Ongwediva youth: perceived challenges in the communication of HIV/AIDS information and risk reduction strategies in rural northern Namibia. *2nd Annual International Health Poster Day*, University of Toronto, Nov 1, 2006.

INVITED TALKS

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1. Maternal and perinatal morbidity associated with cesarean delivery rates. **Invited Rounds Presentation.** Clinical Epidemiology Unit, Department of Medicine, Solna, Karolinska Institutet, Stockholm Sweden. Feb 2, 2023.
2. Abandon forceps or push for more training? **Invited Workshop/Debate.** Society for Obstetrician and Gynaecologists of Canada, Ontario CME, Dec 1, 2022.
3. Trauma following forceps and vacuum delivery in Canada: time to change the narrative. **Invited Grand Rounds Presentation.** Joint Grand Rounds hosted by the University of Calgary and University of Alberta Departments of Obstetrics and Gynaecology. Virtual meeting. 21 Oct 2022.
4. Maternal morbidity and mortality among Canada's under-served populations. **Invited Presentation.** Black Physicians of Canada, Indigenous Physicians Association of Canada and Federation of Medical Women in Canada's Tri-Organizational Leadership Meeting. Virtual meeting (National audience). 10 Sep 2022.
5. Maternal and neonatal trauma with operative vaginal delivery. **Invited Lecturer.** 14th Annual UBC Lectureship in Pelvic Reconstructive Surgery. Virtual meeting. Apr 13, 2022.
6. Safety of forceps and vacuum delivery in Canada: From inter-hospital to international perspectives. **Invited Keynote* presentation.** McMaster Midwifery Research Centre Midwifery Research Symposium, McMaster University. Mar 31, 2022.
<https://youtu.be/QH55Ly1sRQ0>
7. An outcome-based assessment of the optimal cesarean delivery rate using 17 years of data from Sweden and Canada. **Invited Rounds presentation.** Department of Obstetrics and Gynecology, McMaster University. Virtual meeting. Feb 16, 2022.
https://us02web.zoom.us/join?jts=J38PSa0P5n6O15zyKiKULSlz5X8Ks_1FaSwqJbLnmHQQCyEYWgZwsEo0yC1FBMkHbrZx.0FMH_MyTtAvfzsl?startTime=1645015118000&xzm_rtaid=Gnj2IFMsTHeb7cAXOquMoQ.1658165604187.fe337b79b49e8f4ca5334e115ee57785&xzm_rhtaid=274
8. Forceps and vacuum delivery in Canada. **Invited Seminar.** O'Brien Institute for Public Health, University of Calgary. Virtual meeting. Jan 28, 2022. <https://youtu.be/el9IVGOCfVU>
9. Safety of forceps and vacuum delivery in Canada: From inter-hospital to international perspectives. **Invited Grand Rounds presentation.** Joint Grand Rounds hosted by the Departments of Obstetrics and Gynecology and Health Research Methods, Evidence and Impact, McMaster University. Virtual meeting. Jan 13, 2022.
<https://www.youtube.com/watch?v=0bazOHpXqPw>
10. Operative vaginal delivery in Hamilton, in Ontario, in Canada, and beyond. **Invited Rounds presentation.** McMaster University Medical Centre. Virtual meeting, Dec 2, 2021.
11. New insights into the distribution of maternal and neonatal trauma in Canada. **Invited presentation.** Maternal and Newborn Outcomes Committee. Virtual meeting, Dec 2, 2021.
12. Cesarean delivery-related morbidity among primary cesarean deliveries in Ontario. **Invited presentation.** St. Joseph's Healthcare Hamilton. Virtual meeting, Dec 1, 2021.
13. Indicators of safety and use of attempted forceps and vacuum delivery. **Invited presentation.** St. Joseph's Healthcare Hamilton. Virtual meeting, Nov 24, 2021.
14. Investigating perinatal safety concerns at St. Joseph's Healthcare Hamilton. **Invited presentation.** St. Joseph's Healthcare Hamilton. Virtual meeting, Nov 19, 2021.
15. National perspectives on neonatal trauma following operative vaginal delivery. **Invited presentation.** Canadian Perinatal Surveillance System. Virtual meeting, Nov 18, 2021.

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16. Perinatal care regionalization: Maternal and neonatal trauma following operative vaginal delivery, Canada, 2013-2019. [Invited Presentation](#), Canadian Perinatal Programs Coalition. Virtual meeting, Oct 6, 2021.
17. Operative vaginal delivery in Ontario: Focus on Hamilton Health Sciences, McMaster University Hospital and St. Joseph's Healthcare Hamilton. [Invited Presentation](#), Hamilton Chiefs of Obstetrics and Gynecology. Virtual meeting, Oct 6, 2021.
18. Primary cesarean delivery, attempted forceps/vacuum delivery and delivery following a previous cesarean delivery: British Columbia and Canada. [Invited Rounds Presentation](#), Academic Perinatology Rounds. BC Women's Hospital, Virtual meeting, Sep 22, 2021.
19. Safety of operative vaginal delivery in Canada. [Invited Presentation](#), Maternal and Newborn Outcomes Committee. Virtual meeting, Sep 9, 2021.
20. International and temporal variation in cesarean delivery rates using the Robson classification: a population-based cohort study in Sweden and Canada. [Invited Rounds Presentation](#), Academic Perinatology Rounds. BC Women's Hospital, Virtual meeting, May 19, 2021.
21. How low can you go? An outcome-based assessment of the optimal cesarean delivery rate using 17 years of data from Sweden and Canada. [Invited Rounds Presentation](#), Academic Perinatology Rounds. BC Women's Hospital, Virtual meeting, Sep 23, 2020.
22. Perinatal Health Systems Improvement Project: obstetric and birth injury outcomes following operative vaginal delivery in Canada by tiers of obstetric service. [Invited presentation](#), Canadian Perinatal Programs Coalition. NB, Feb 27, 2020.
23. Do maternity care providers have an obligation to lower the cesarean delivery rate? [Invited workshop seminar](#), Society for Obstetricians and Gynaecologists of Canada, Ontario CME, Toronto, ON, Nov 28, 2019.
24. Cesarean delivery trends and perinatal outcomes in Canada and Sweden: identifying targets for safely reducing the caesarean delivery rate. [Invited Rounds Presentation](#), Academic Perinatology Rounds. BC Women's Hospital, Vancouver, BC, Jun 26, 2019.
25. Forceps, vacuum, or cesarean? Evaluating mode of delivery options following an arrest in labour. [Invited seminar](#), Clinical Epidemiology Unit, Stockholm, SE, Mar 7, 2019.
26. Maternity care providers have an obligation to lower Canada's cesarean delivery rate. Against the motion: Trainee debate. [Invited panelist](#), Canadian National Perinatal Research Meeting, Mont Tremblant, Feb 13, 2019.
27. Forceps, vacuum, or cesarean? Evaluating mode of delivery options following an arrest in labour. [Invited Grand Rounds Presentation](#), BC Women's Hospital Interprofessional Grand Rounds, Vancouver, BC, Oct 19, 2017.
28. Forceps, vacuum, or cesarean? Evaluating mode of delivery options following an arrest in labour. [Invited seminar](#), BC Children's Hospital Research Seminar Series, Vancouver, BC, Sep 29, 2017.
29. Operative vaginal delivery, obstetric trauma, and birth trauma. [Invited Rounds Presentation](#), Academic Perinatology Rounds. BC Women's Hospital, Vancouver, BC, Sep 20, 2017.
30. Delivery Options for Second Stage Dystopia: A Comparison of Perinatal and Maternal Outcomes Following Operative Vaginal and Cesarean Delivery. [Invited Rounds Presentation](#),

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Academic Perinatology Rounds, Children's and Women's Hospital of British Columbia, Vancouver, Canada, Sep 21, 2016.

31. Forceps, vacuum, or cesarean? Neonatal and maternal outcomes following attempted operative vaginal delivery at midpelvic station. Invited Grand Rounds Presentation, BC Women's Hospital Interprofessional Grand Rounds, Vancouver, BC. 26 May, 2016.
32. Neonatal outcomes and operative vaginal delivery at midpelvic station. Invited Rounds Presentation, Combined Perinatal Rounds. Children's and Women's Hospital of British Columbia, Vancouver, BC, Mar 23, 2016.
33. The Professor David Olson Trainee Debate on criteria for the diagnosis of gestational diabetes. Invited panelist, Canadian National Perinatal Research Meeting. Banff, AB, Feb 12, 2016.
34. Temporal and regional variation in operative vaginal delivery by pelvic station, Canada, 2004-2012. Invited Rounds Presentation, Academic Perinatology Rounds. Children's and Women's Hospital of British Columbia, Vancouver, BC, Nov 13, 2015.
35. Propensity scores. Invited presentation, Epidemiology Journal Club. Children and Family Research Institute, Vancouver, BC, Apr 4, 2014.
36. Perinatal and maternal outcomes by planned place of birth for healthy women with low risk pregnancies: The Birthplace in England national prospective cohort study. Invited Rounds Presentation, Academic Perinatology Rounds. Children's and Women's Hospital of British Columbia, Vancouver, BC, Feb 22, 2013.
37. Community-based reproductive health screening in resource-poor settings: a Ugandan case study. Invited seminar, Maternal Child Health Seminar, Children's and Women's Hospital of British Columbia. Oct 13, 2011.
38. Formative Research into Water, Sanitation and Hygiene Practices in a Namibian Informal Settlement, Oshitenda. Invited presentation, Master of Public Health Practicum Information Session. School of Population & Public Health, University of British Columbia. Nov 3, 2009.
39. Master of Public Health Practicum Experience and International Opportunities. Invited presentation, Master of Public Health Practicum Information Session. School of Population & Public Health, University of British Columbia. Nov 3, 2009.
40. Careers in Public Health. Invited presentation, The Namibian's Inaugural Windhoek Career Fair. Windhoek Fairgrounds. Apr 11, 2009.
41. Methodologic challenges in HIV/AIDS research, Invited presentation, World AIDS Day Symposium, Department of Anthropology, University of Toronto, Dec 1, 2006.
42. Youth and HIV. Invited presentation, World AIDS Day Symposium. Hart House, Great Hall, University of Toronto, Dec 1, 2006.

TEACHING

1. Primary instructor. Graduate level course PUBHLTH 701: "Population and Public Health Research Methods". Master of Public Health Program. Department of Health Research Methods, Evidence and Impact, Faculty of Health Sciences, McMaster University. Jan-April 2023.

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2. Primary instructor. Graduate level course PUBHLTH 704: "Population and Public Health Epidemiology". Master of Public Health Program. Department of Health Research Methods, Evidence and Impact. Faculty of Health Sciences, McMaster University. Sep-Dec 2022.
3. Academic Half Day. Department of Obstetrics and Gynecology, McMaster University. Sep 28, 2022.
4. Lecturer. Graduate level course SPPH503: "Advanced concepts in epidemiology". School of Population and Public Health, University of British Columbia, Vancouver, BC, Jan-Apr, 2019.
5. Lecturer. "Research methods for the Ob/Gyn Resident". Resident Research Course. University of British Columbia, Vancouver, Jan-March, 2019.
6. Lecturer. Graduate level course SPPH524: "Core biological concepts for public health practice". School of Population and Public Health, University of British Columbia, Vancouver, BC, Sep-Dec, 2018.

TEACHING ASSISTANTSHIPS

Sep 2011 - Dec 2011	Core Biological Concepts of Public Health Practice, Graduate Studies, School of Population & Public Health, University of British Columbia
Jul 2011 – Dec 2011	Issues and Concepts in Public Health, Graduate Studies School of Population & Public Health, University of British Columbia
Jul 2009 – Jan 2010	Core Biological Concepts of Public Health Practice, Graduate Studies, School of Population & Public Health, University of British Columbia
Aug 2009 – Jan 2010	Issues and Concepts in Public Health, Graduate Studies School of Population & Public Health, University of BC
Jan 2009 - Apr 2009	Introduction to Epidemiology for Environmental Health Second Year Undergraduate, Polytechnic of Namibia
Jun 2008 - Aug 2008	Health and Pharmaceuticals, Third Year Undergraduate Course Health Studies University of Toronto

SUPERVISORY/MENTORING ACTIVITIES

Sep 2022– present	Primary supervisor, PhD student, Irina Oltean Health Research Methods Program, HEI, McMaster University
Sep 2022-present	Committee member, MPH student, Alexandra Palumbo Health Research Methods Program, HEI, McMaster University
Jan 2022 – present	Committee member, PhD student, Vanessa Hébert Health Research Methods Program, HEI, McMaster University
Nov 2021 – present	Primary supervisor, Master's student, Meejin Park Global Health Program, McMaster University
Jan 2020 – present	Co-supervisor, Doctoral student, Linnea Ladfors Clinical Epidemiology Unit, Karolinska Institutet

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Oct 2011- Sep 2012	PhD Project: PPH surveillance in Sweden CIHR Synapse Mentor, Canadian Institutes of Health Research Number of Mentees: 15
Sep 2011 – Apr 2012	Graduate Student Mentor, University of British Columbia Number of Mentees: 4
Jan 2010 – Apr 2012	Teaching Assistant Mentor, University of British Columbia Number of Mentees: 5
Sep 2010 – Sep 2011	Peer Mentor, University of British Columbia Number of Mentees: 3

INTERNATIONAL HEALTH EXPERIENCE

January 2011	<u>Location: Kampala, Uganda</u> <ul style="list-style-type: none">▪ Traveled with a team of University of British Columbia obstetricians and gynecologists and BC CDC Scientists to support ongoing HPV and cervical cancer research projects supported by the Provincial Health Services Authority▪ Promoted initiatives that facilitate a continuum of cervical cancer prevention and care that includes HPV vaccine roll-out, HPV screening programs, surgical treatment training modules and palliative care guidelines▪ Collaborated with the Dept. of Obstetrics and Gynaecology at Makerere University in Mulago Hospital as well as community partners (Save the Mothers, Shanti Uganda) and NGO's (PATH, Mildmay)▪ Organised symposium at Makerere Medical School on Cervical Cancer Care
Jan - Apr 2009	<u>Location: Windhoek, Central Namibia</u> <ul style="list-style-type: none">• Traveled to field site during winter term of 2009• Conducting formative research into water, sanitation, and hygiene practices in the informal settlements to identify risk behaviours contributing to high diarrheal disease incidence (<i>see http://www.spph.ubc.ca/?p2=/modules/hce/studentresearch/studentresearch.jsp&sresearchId=13 for more details</i>). University of British Columbia, Master of Public Health Practicum. Supervisor: Prof. M.M. Kahitu, MPH, City of Windhoek Municipal Health Service Division.• Teacher's Assistant for Introduction to Epidemiology course at the Polytechnic of Namibia for Professor M.M. Kahitu.
Feb 2004 - Sep 2008	<u>Location Kurunegala, Sri Lanka</u> <ul style="list-style-type: none">• Traveled to field sites every 3 months for 3 weeks• Co-founder and Volunteer Managing Director of Hemoglobl Charity which raises funds and provides medical equipment and support to

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children in Sri Lanka with genetic hematologic disorders, mainly thalassemia.

Sep 2007 - Apr 2008 Location: Kurunegala, Ragama, and Colombo, Sri Lanka

- Traveled to field sites every two months for two weeks
- Conducted research on cost-effectiveness and feasibility of providing magnetic resonance imaging to thalassemia patients as a modality to measure iron overload. Supervisors: Dr. P. Hamel, University of Toronto, Dr. N.F. Olivieri, University of Toronto, Dr. T. St. Pierre, University of Western Australia.

May - Sep 2006 and May - Sep 2007 Location: Ongwediva, Northern Namibia

- Traveled to field sites for 4 months during summer months of 2006 and 2007
- Conducted research on the social and cultural factors affecting uptake of prevention strategies in youth through a University of Toronto Medical Anthropology internship. Supervisor: Dr. R.B. Lee, University of Toronto.
- Volunteer Dance Instructor & Peer Educator for Ongwediva Youth Group
- Volunteer After-school Mentor for Orphan & Vulnerable Children Program, Ongwediva Multi-Purpose Centre,
- Volunteer English Instructor, Grant writer for HIV-affected Women's Group, "Tukwafela"

Feb 2004 - Feb 2007 Location: Kurunegala and Anuradhapura, Sri Lanka

- Traveled every 3 months for 3 weeks to field sites (National Thalassemia Centre, Kurunegala & Anuradhapura State Hospital).
- Conducted research on iron overload in non-transfused thalassemics through the detection of non-transferrin-bound plasma iron. Principal Investigator: Dr. J.B. Porter, University College London, UK. Funded by the National Institutes of Health.
- Conducted research on genetic modifiers and phenotype/genotype relationships in hemoglobin-E thalassemics. Principal Investigator: Prof. Sir. D.J. Weatherall, Weatherall Institute of Molecular Medicine, University of Oxford. Funded by the Wellcome Trust.

MANUSCRIPT REVIEWS

1. Canadian Medical Association Journal (2018-2022)
2. American Journal of Obstetrics and Gynecology (2017-2022)
3. Acta Obstetrica et Gynecologica Scandinavica (2002)

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4. American Journal of Perinatology (2022)
5. Scientific Reports (2022)
6. Pediatric Research (2018-2021)
7. Paediatric and Perinatal Epidemiology (2018-2021)
8. AIDS and Behavior (2015)
9. Journal of Obstetrics and Gynaecology of Canada (2014)

MEDIA AND KNOWLEDGE TRANSLATION

Television/Radio/Podcasts

1. Maternal and neonatal trauma with operative vaginal delivery. Canadian Medical Association Journal Podcast. Jan 31, 2022. <https://open.spotify.com/episode/3UOHFJfU0RZVsUteF6Tudy?si=8ff641880f4943ca>
2. Episiotomy helpful in forceps births says Canadian study. CBC radio, White Coat, Black Art. Oct 21, 2019.
3. Episiotomies are on the decline, but for some women it can prevent further tearing: study. Global News by Arti Patel. Oct 21, 2019. <https://globalnews.ca/news/6059600/episiotomy-injury-risk/>
4. Injuries to moms, babies during forceps deliveries on the rise: study. Jun 18, 2018. CTV National News. <http://ctv.news/giRGdST>
5. Increasing rates of obstetric trauma in Canada. Jun 18, 2018. CBC Ottawa's All in Day.
6. Safety of forceps and vacuum delivery. Jun 7, 2017. The Afternoon News, AM800 CKLW News.
7. Study suggests forceps, vacuum deliveries more traumatic than C-sections. June 5, 2017. Wochit News. <https://www.youtube.com/watch?v=ljiqhLV2IDA>
8. Perinatal and maternal morbidity and mortality after attempted operative vaginal delivery at midpelvic station. June 5, 2017. Canadian Medical Association Journal Podcast. <https://soundcloud.com/cmaipodcasts/161156-res>

Newspapers/Magazines/Blogs (Print and Online)

1. Trauma Rates with OVD Unexpectedly High, Study Finds. Medscape News article by Michael Vlessides. Jan 14, 2022. <https://www.medscape.com/viewarticle/966677>
2. Study: trauma rates high in Canada among forceps and vacuum deliveries. The Toronto Star article by Melissa Couto Zuber for the Canadian Press. Jan 10, 2022. https://www.thestar.com/life/health_wellness/2022/01/10/study-trauma-rates-high-in-canada-among-forceps-and-vacuum-deliveries.html
3. Use of forceps, vacuum during childbirth has higher rates of physical trauma, study finds. CTVNews.ca article by Alexandra Mae Jones. Jan 10, 2022. <https://www.ctvnews.ca/health/use-of-forceps-vacuum-during-childbirth-has-higher-rates-of-physical-trauma-study-finds-1.5733673>

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4. Study: trauma rates high in Canada among forceps and vacuum deliveries. Sask Today article by Melissa Couto Zuber for the Canadian Press. Jan 10, 2022. <https://www.sasktoday.ca/the-mix/study-trauma-rates-high-in-canada-among-forceps-and-vacuum-deliveries-4939570>
5. McMaster researcher finds high rates of trauma for mothers and babies with forceps and vacuum deliveries. <https://healthsci.mcmaster.ca/home/2022/01/10/mcmaster-researcher-finds-high-rates-of-trauma-for-mothers-and-babies-with-forceps-and-vacuum-deliveries>
6. Research reveals high rates of trauma for mothers and babies from forceps and vacuum deliveries in Canada. Mirage News. Jan 10, 2022.
7. Episiotomy may help reduce severe tears in deliveries involving forceps, vacuums, study shows. The Globe & Mail article by KC Hoard. Oct 21, 2019. <https://www.theglobeandmail.com/canada/article-episiotomy-may-help-reduce-severe-tears-in-deliveries-involving/>
8. Episiotomies reduce severe tearing risks in assisted births, study finds. The Toronto Star article by Cassandra Szklarski. Oct 21, 2019. https://www.thestar.com/life/health_wellness/2019/10/21/episiotomies-reduce-severe-tearing-risks-in-assisted-births-study-finds.html
9. Study finds episiotomies reduce severe tearing risks in assisted births. CTV News article by Cassandra Szklarski. Oct 21, 2019. <https://www.ctvnews.ca/health/study-finds-episiotomies-reduce-severe-tearing-risks-in-assisted-births-1.4647397>
10. Study puts episiotomies in new light; Move away from procedure may be hurting some women, UBC researcher says. The Province article by Pamela Fayerman. Oct 21, 2019. Pg A8.
11. Study finds episiotomies reduce severe tearing risks in assisted births. Hamilton Spectator article by Cassandra Szklarski. Oct 21, 2019. Pg G7.
12. Episiotomy helpful in forceps births says Canadian study. Dr. Brian's Blog on CBC's White coat, black art. <https://www.cbc.ca/radio/whitecoat/episiotomy-helpful-in-forceps-births-says-canadian-study-1.5328582>
13. Researchers analyze trends in episiotomy use among vaginal deliveries. News.Med.Net article by Kate Anderton. <https://www.news-medical.net/news/20191021/Researchers-analyze-trends-in-episiotomy-use-among-vaginal-deliveries.aspx>
14. Why are episiotomies on the decline when it can reduce vaginal tearing? International Business Times article by Diane Galistan. <https://www.ibtimes.com/why-are-episiotomies-decline-when-it-can-reduce-vaginal-tearing-2851484>
15. Study finds episiotomies reduce severe tearing risks in assisted births. Times Colonist article by Cassandra Szklarski. Oct 21, 2019. Pg C1.
16. Obstetric trauma due to forceps has increased in Canada: report. The Globe & Mail article by Carly Weeks. Jun 18, 2018. <https://www.theglobeandmail.com/canada/article-obstetric-trauma-due-to-forceps-has-increased-in-canada-report/>
17. Trauma to moms, babies increasing with forceps deliveries, study shows. National Post article by Sharon Kirkey. Jun 18, 2018. <https://nationalpost.com/health/trauma-to-moms-babies-increasing-with-forceps-deliveries-study-shows>

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18. A new study says injuries from forceps deliveries are on the rise. Jun 18, 2018. Today's Parent article by Jill Buchner. <https://www.todayparent.com/pregnancy/giving-birth/a-new-study-says-injuries-from-forceps-deliveries-are-on-the-rise/>
19. Forceps and vacuum delivery to reduce cesareans could lead to more birth trauma. Q&A with Dr. Marie Benz for MedicalResearch.com. Jun 18, 2018. <https://medicalresearch.com/author-interviews/forceps-and-vacuum-delivery-to-reduce-cesareans-could-lead-to-more-birth-trauma/42447/>
20. Obstetric trauma rates for forceps deliveries have increased in Canada. Medical Xpress. June 18, 2018. <https://medicalxpress.com/news/2018-06-obstetric-trauma-forceps-deliveries-canada.html>
21. How parenting affects younger moms' mental health versus older moms' mental health. Romper article by Gillian Walters. Aug 8, 2017. <https://www.romper.com/p/how-parenting-affects-younger-moms-mental-health-versus-older-moms-mental-health-75078>
22. Midpelvic operative vaginal delivery riskier than cesarean. Medscape News article by Troy Brown. Jun 9, 2017. <https://www.medscape.com/viewarticle/881353>
23. Forceps, vacuum deliveries more traumatic than C-section. Independent Online. Jun 9, 2017. <https://www.iol.co.za/lifestyle/family/forceps-vacuum-deliveries-more-traumatic-than-c-section-9671884>
24. A vacuum or forceps delivery could be riskier than a C-section for mom and baby. Today's Parent article by Alex Mlynek. Jun 6, 2017. <https://www.todayparent.com/pregnancy/giving-birth/a-vacuum-or-forceps-delivery-could-be-riskier-than-a-c-section-for-mom-and-baby/>
25. Perinatal and maternal adverse events after attempted operative vaginal delivery at midpelvic station. Q&A with Dr. Marie Benz for MedicalResearch.com. Jun 5, 2017. <https://medicalresearch.com/author-interviews/perinatal-maternal-adverse-events-attempted-operative-vaginal-delivery-midpelvic-station/34972/>
26. Cesarean deliveries better than midpelvic forceps, vacuum deliveries: Study. Jun 5, 2017. Business Standard. https://www.business-standard.com/article/news-ians/forceps-vacuum-deliveries-more-traumatic-than-c-section-117060600497_1.html
27. Midpelvic forceps, vacuum deliveries: Higher rates of trauma for mothers and babies. Jun 5, 2017. Science Daily. <https://www.sciencedaily.com/releases/2017/06/170605085351.htm>
28. Study finds forceps, vacuum deliveries more traumatic than C-sections. United Press International article by Amy Wallace. Jun 5, 2017. <https://www.upi.com/Study-finds-forceps-vacuum-deliveries-more-traumatic-than-c-sections/9291496665906/>
29. Older mothers may be more prone to depression than younger women. The Guardian article by Ian Sample. Feb 22, 2012. <https://www.theguardian.com/science/2012/feb/22/older-mothers-more-prone-depression>
30. Older mothers at 'greater risk of depression' due to worrying about themselves and the health of their babies. The Daily Mail article by Fiona MacRae. Feb 22, 2012. <http://www.dailymail.co.uk/health/article-2104471/Older-mothers-greater-risk-depression-worrying-health-babies.html>

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31. Older mothers 'five times more likely to suffer from depression'. The Daily Telegraph article by Nick Collins. Feb 22, 2012. <https://www.telegraph.co.uk/women/womens-health/9095812/Older-mothers-five-times-more-likely-to-suffer-from-depression.html>
32. Mothers who delay families 'at greater risk of depression'. The Times article by Katie Collins. Feb 22, 2012. <https://www.thetimes.co.uk/article/mothers-who-delay-families-at-greater-risk-of-depression-qmvk0rstwhn>
33. Older mothers at far greater risk of depression, reveals study. The Huffington Post article by Georgia James. Feb 22, 2012. https://www.huffingtonpost.co.uk/2012/02/22/older-mothers-depression-risk_n_1293980.html

EMPLOYMENT

Aug 2010 – Aug 2011	Research Program Manager, BC HPV Research Group Provincial Health Services Authority, Women's Health Research Institute, Vancouver, Canada
Apr 2010 – Jul 2010	Research Coordinator, Clinical Abortion Research Team University of British Columbia, Vancouver, Canada
May 2009 – Jan 2010	Graduate Academic Assistant, School of Population & Public Health, Vancouver, Canada
Oct 2008 - Nov 2008	Grant Facilitator, Department of Emergency Medicine Vancouver General Hospital, Vancouver, Canada
Sep 2008 - Nov 2008	Research Assistant, Therapeutics Initiative, University of British Columbia, Vancouver, Canada
Mar 2004 - Sep 2008	Clinical Research Manager, Hemoglobinopathy Research Program, University Health Network, Toronto, Canada
Apr 2003 - Mar 2004	Clinical Research Coordinator, Hemoglobinopathy Research Program, University Health Network, Toronto, Canada
Jun 1998 - Mar 2003	Research Student, Hemoglobinopathy Research Program, Hospital for Sick Children and University Health Network, Toronto, Canada

ACADEMIC SERVICE

Apr 2022 – present	<u>Committee Member</u> , Equity, Diversity, Inclusion and Indigenous Reconciliation Working Group, Dept of Health Research Methods, Evidence and Impact, McMaster University
Jan 2022 – present	<u>Committee Member</u> , Research Advisory Council Committee, Department of Obstetrics and Gynecology, McMaster University
Jun 2022	<u>Abstract Judge</u> , Canadian National Perinatal Research Meeting
Apr 2022	<u>Abstract Judge</u> , RT Weaver Academic Research Day
Mar 2022	<u>Selection Committee</u> , MPH Program, Dept of Health Research Methods, Evidence and Impact, McMaster University

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Jan 2022

Technical Expert Panel Member, Agency for Healthcare Research and Quality Comparative Effectiveness Review. Publication No. 22-EHC031. <https://www.doi.org/10.23970/AHRQEPCCER257>.

COMMUNITY SERVICE

Jan 2011 – present

Board Member, Gosen Community Effort – NGO that provides bursaries to students in Namibia who meet certain standards on their high school exams.

Feb 2011 – Mar 2011

Volunteer, Special Olympics BC, Vancouver, Canada

Dec 2004 – Jan 2009

Volunteer Managing Director, Hemoglobin - NGO devoted to improving the care of children with thalassemia in Sri Lanka and Bangladesh (see www.hemoglobin.org)