

July 7, 2022; Mary Brindle



University of Calgary
Cumming School of Medicine

7/July/2022

CURRICULUM VITAE

I. BIOGRAPHICAL DATA

Mary Elizabeth Brindle
Professor of Surgery and Community Health Sciences
Cumming School of Medicine, University of Calgary

Director of Safe Surgery and Safe Systems
Ariadne Labs Harvard TH Chan School of Public Health and Brigham and Women's Hospital

Section of Paediatric Surgery
Alberta Children's Hospital
28 Oki Drive, Calgary AB T3B6A8
403-955-2848

II. ACADEMIC RECORD

MD June, 1998 Medicine, Dalhousie University, Halifax, Canada
BA (Art), Yale University, 1994
MPH (Clinical Effectiveness) Harvard TH Chan School of Public Health, 2010
RCPS General Surgery, University of British Columbia 2004
RCPS Paediatric Surgery, University of Toronto 2006

III. AWARDS AND DISTINCTIONS

2021 Recognition as **Outstanding reviewer for CIHR** (one of 12.6% of the 1107 reviewers)
2021 Named to the **College of Reviewers** for CIHR
2019/06 **Award for Dedication to Surgical Quality** Department of Surgery, June 2019
2019/04 **Award for Resident Mentorship** Subspecialty Programs" Postgraduate Medical Education, Cumming School of Medicine, University of Calgary, April 2019
2018/11 **Compassion Moment Champion** (nominated by patient parents and awarded by the Patient and Family Centred Care Committee), November 2018.
2017 **Compassion Moment Champion** (nominated by patient parents and awarded by the Patient and Family Centred Care Committee).
2013 **Bronze medal for undergraduate medical teaching** (Course 8)
2012/05 Finalist **President's Award of Excellence** (Alberta Health Services) in the field of research, as a member of the Children's Intestinal Rehabilitation Program.
2008 Co-recipient **Walter Berdon Award** for the outstanding Clinical Paper appearing in Pediatric Radiology in 2007
2002/10 Outstanding **Resident Research Award**, WB and MH Chung Research Day, University of British Columbia
2004/06 Postgraduate **Resident Teacher of the Year**, Department of Surgery, University of British

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Columbia




2020-current Professor of Surgery and Community Health Sciences. Cumming School of Medicine, University of Calgary, Alberta Children's Hospital
2020-current Visiting Researcher, Harvard School of Public Health, Harvard University, Boston, MA, USA
2013/04-current Associate Professor of Surgery, Cumming School of Medicine, University of Calgary, Alberta Children's Hospital.
2016/04-current Associate Professor of Community Health, Cumming School of Medicine, University of Calgary
2016/08-current Affiliate Faculty, Ariadne Labs, Harvard Medical School.
2015/08- 2016/07 Visiting Associate Professor, Harvard Medical School.
2006/07-2013/04 Assistant Professor of Surgery, Cumming School of Medicine, University of Calgary, Alberta Children's Hospital

V. EDUCATIONAL ACTIVITIES

i. Undergraduate
2006-2010, 2014 Evidence-Based Medicine supervisor for 5 students (80+ hours per student)
2010, 2011, 2014 Formal procedural teaching and examination within the Undergraduate Medical Education program at the Cumming School of Medicine including thoracentesis (4-hour sessions, August, October 2013) and chest tube insertion (January, 2011) and suturing (2010, 2014).
2013 Hands-on imaging and anatomy teaching (liver, IVC, aorta) for Undergraduate Medical Education students at the Cumming School of Medicine of with ultrasound in multiple 3 hour sessions, August 2013(Bronze medal for UME teaching in 2013).
2006-2010 Undergraduate Medicine Clerkship Pediatric Surgery small-group education rounds (every 2 months)
2006-2008 Yearly large group didactic lectures on paediatrics and development for Undergraduate Medical Education students at the Cumming School of Medicine from 2006-2008.
2001-2002 Didactic small-group educational rounds for Undergraduate Medical Education students at Stanford University from 2001-2002.

ii. Graduate (course and student supervision)
2022 "Checklists to Improve Quality and Safety in Surgery" Lecture and discussion. Masters in Quality and Safety, Harvard TH Chan School of Public Health, July 27, 2022
2021-2022 Epi208 Course Instructor, Harvard TH Chan School of Public Health, Boston, MA (two workshops each being two hours each year)
2019-2021 Primary Masters supervisor. Jenn Lam, George Washington University Masters of Health Care Quality.
2019-2021 DrPH co-supervisor. Meagan Elam, DrPH School of Public Health, Boston University, Primary Supervisor Jacey Greece.
2018 Masters Review Committee. Manal Sheik, MSc Community Health Sciences, Primary Supervisor: Amy Metcalf. May, 2018

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2012 Masters Review Committee. Saima Nausheen, Masters of Science Primary Supervisor: Prasanth Chelikani. December, 2012.

2012 Masters Review Committee. Sarah Lai, Masters of Science Student, Department of Surgery, Primary Supervisor: David L Sigalet.

iii. Postgraduate (research and clinical fellows)
PGME teaching

2020 Lead for educational sessions, pediatric surgery Half Day (November, 2020)

2007-2013/2018,2019 Lecturer for general surgery resident's Half Day (yearly)

2007-2009, 2019 Lecturer for neonatology resident's half-day.

2018, 2021 Faculty, National Pediatric Surgery Bootcamp

2017-18 Instructor First Year Surgery Resident Critical Thinking Course, Creating Research Teams

2013-2014 Instructor First Year Surgery Resident Critical Thinking Course, Diagnostic Tests, October, 2013, October 2014.

2007-2014 Lecturer for pediatric resident's Half Day (yearly)

2012 Lecturer for pediatric hematology resident's Half Day, November, 2012

2009 Lecturer for oncology resident's half-day. Surgical considerations of Wilm's Tumour

PGME administration

2006-current Member Neonatology Resident Training Committee

2006-current Member Pediatric Surgery Resident Training Committee

2006-current Member Maternal Fetal Medicine Resident Training Committee

2012-2015 Member Faculty of Medicine Accommodations Committee

2006-2011 Member General Surgery Resident Training Committee

iv. Continuing medical education

2016 Co-director Perioperative Crisis Management (POCM) program

2015 Director, 2-day Workshop. Realist Reviews (run by Dr. Gill Westhorp, methodologist) Nov 23rd, 24th, 2015

2014 Instructor, 3-hour workshop, 15 participants "Ultrasound and peripheral line access for pediatricians"; W21C, Calgary, March, 2014

2014-2016 Co-lead Extracorporeal Life Support (ECLS) development program

2014 Guest Speaker: OR Nurses Educational day.

2007-2014 Instructor for ATLS (Student and Instructor courses)

2013 Education session "Intestinal failure in infants", Nursing education session.

2013 Instructor, 3-hour workshop, 12 participants. "GIM CME – Ultrasound introduction, Thoracentesis, Paracentesis and CVC." Participants: Jennifer Landry, John Walsh, Susan Huan, Mike Fisher, Anna Purdy, Michelle Burns, Bob Herman, Gabe Fabreau, Evan Minty, Fiona Dunne, Janet Gilmour, Doug Hamilton, June 4th 2013


2012 Trauma Rounds, Alberta Children's Hospital: Pancreatic Trauma. September, 2012

2012 Post-anaesthetic nursing rounds: Patent Ductus Arteriosus

2010 Guest Speaker: OR Nurses Educational day.

2009 Lecturer and Facilitator: Neonatal Nursing Issues Educational Day

2008 Lecturer "Abdominal Trauma" Nursing Education Rounds, Alberta Children's Hospital

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- 2001 Instructor: Surgical Skills Workshop, American Academy of Pediatrics, San Francisco, CA.
- 2008 v. Department of Science/University of Calgary
Lecturer "Abnormal Pulmonary Development with CDH" for Respiratory Research Group, University of Calgary.

VI. ADMINISTRATIVE RESPONSIBILITIES

- July 2020-
2018- i. International
Director Safe Surgery and Safe Systems, Ariadne Labs, Brigham and Women's and TH Chan Harvard School of Public Health
Chair of the Canadian Association of Chairs of Surgical Research
- 2016-current ii. Departmental
Research Chair, Department of Surgery, Cumming School of Medicine, University of Calgary
- 2016-May 2019 **Chair** and developer Academic Alternate Relationship Program for Department of Surgery
- 2013-April 2019 **Associate Department Head** of Surgery (Academic), Cumming School of Medicine, University of Calgary
- 2012-July 2015 Division Chief, Pediatric Surgery, Alberta Children
2014 Facilitator, Surgery Research Day. January, 2014
2013 Facilitator Resident Research Day and Basic Science Day, January, 2013
- 2006-current ii. Faculty
2006-current Member Neonatology Resident Training Committee
2006-current Member Pediatric Surgery Resident Training Committee
2006-current Member Maternal Fetal Medicine Resident Training Committee
2012-2015 Member Faculty of Medicine Accommodations Committee
2006-2011 Member General Surgery Resident Training Committee
- 2018-current iii. University
Chair Clinical Research Fund, Cumming School of Medicine, University of Calgary
- 2022 iv. Provincial/Regional Health Authority
Interim Senior Medical Director, Surgery Strategic Care Network, Alberta Health Services
- 2019-current **Scientific Director**, Surgery Strategic Care Network, Alberta Health Services
2018-2019 Lead of NSQIP, Alberta Children's Hospital
2018-current Member of Quality and Safety working group for the Surgery Strategic Care Network (SCN)
- 2017-current Member of Surgery Strategic Care Network (SCN)
2016-current Member Pediatric Surgery Working Group, Surgery SCN
2013-2014 Co-Chair Hand Hygiene Committee, Alberta Children's Hospital

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2011-2012 Co-Director Southern Alberta Pediatric Trauma, AHS
2010-2011 Regional Co-Director of Pediatric Trauma, Southern Alberta
2008-current Coordinator for Pediatric General Surgery electronic order sets

v. Hospital

2015-current Lead of EQUIS (Efficiency, Quality, Innovation and Safety) Research Platform
2010-current Member Alberta Congenital Anomalies Surveillance System
2006-current Member Surgical Executive Committee
2006-current Member of Operating Room Committee
2006-2014 Member Trauma Committee
2006-2014 Member Trauma Safety Committee
2012-2013 Surgical Lead Trauma, Alberta Children's Hospital
2011-2012 President Medical Staff Association, Alberta Children's Hospital.
2006-2012 Surgical Director of Pediatric Trauma, Alberta Children's Hospital
2010-2011 Vice president Medical Staff Association, Alberta Children's Hospital

VII. PROFESSIONAL ACTIVITIES

i. Membership in professional and learned societies.

2016- current Alberta Children's Hospital Research Institute
2012- current Pacific Association of Pediatric Surgery (PAPS)
2012- current O'Brien Institute for Population Health
2010- current Institute for Maternal Child Health (IMCH)
2007-current Canadian Association of Pediatric Surgery (CAPS)

ii. Professional service
PROGRAM REVIEWS

2019 Reviewer Division of McMaster Pediatric Surgery

GRANT PANELS

2020-2021 **Scientific Officer** Michael Smith Foundation for Health Research (October, 2020)
2019-2021 Reviewer CIHR Project Scheme Grant (Spring and Fall)
2018-2019 Chair Clinical Research Fund
2017, 2019 Reviewer Michael Smith Foundation for Health Research
2017, 2018 Reviewer CIHR Reproductive Maternal and Child Health Young Investigator's Grant.
2018 Reviewer ACHRI trainee small research grant
2016, 2018 Reviewer CDH, Sparks Grant, August, 2016 (review update 2018)
2016 Reviewer CIHR Analyses of Existing Canadian Cohorts & Databases - Reproductive Maternal & Child Health,
2016 Reviewer Clinical Research Fund, Calgary Center for Clinical Research, September, 2016
2015 Reviewer Veni Grant, Netherlands Organization for Health Research and Development (1 grant), April, 2015
2012 Reviewer Physician's Services Incorporated Foundation (1 grant)
2011 Reviewer Alberta Children's Hospital Foundation (3 grants)

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AWARD REVIEWS

2016-2018 Development and oversight of Department of Surgery Clinical, research and education awards.

2013 Reviewer Department of Surgery Surgical Scientist Award. Aug, 2013

2013 Reviewer Department of Surgery Education Award. Aug, 2013

2013 Reviewer Department of Surgery Research Award. Aug, 2013

JOURNAL REVIEWS

2021-current **Chair PAPS publication Committee**, for manuscripts to be published in JPS.

2012- current Reviewer Pediatrics (2014: July, Sept, Oct; 2015: Mar, Aug; 2016 Feb; 2017 Mar, Apr, Aug; 2018 April)

2016, 2018 Reviewer British Medical Journal-Open (2016 May; Sept 2018)

2017-current Reviewer Annals of Surgery (2017 April, 2020, 2021)

2016 Reviewer Journal of the American College of Surgeons (2016: Jan)

2015-current Reviewer JAMA Pediatrics (2015: Aug; 2016: Aug, 2021)

2015 Reviewer Neonatology (2015: Dec)

2013-2019 Reviewer Canadian Medical Association Journal (2013: May, June; 2014: Sept; 2015: June, July, Nov; 2016: Jan, April; 2019: Feb, Aug)

2014-2015 Reviewer American Journal of Perinatology (2014: Sept, Oct, 2015: Aug)

2009-current Reviewer Journal of Pediatric Surgery 2017: Jan, 2018, 2019:Mar, Aug

2014-2016 Publications Committee PAPS, Journal of Pediatric Surgery (April 2014-10, April 2015-9, April 2016-11, April 2017-10; April 2018-14; February 2019-10)

2011-2014 Publications Committee CAPS, Journal of Pediatric Surgery 2011-2014

2011 Reviewer Journal of Medical Case Reports

2009-current Reviewer Fetal Diagnosis and Therapy

2009-current Reviewer Canadian Journal of Surgery

EDITORSHIPS

2019-current Associate Editor Canadian Journal of Surgery

NATIONAL AND INTERNATIONAL COMMITTEES

Jan 2020-current **Chair of Equity, Diversity and Inclusion** committee Canadian Association of Pediatric Surgery

Jan 2019-current Board of Directors Shock Trauma Air Rescue (STARS) National emergency air transport

2008-current Member Steering Committee for Canadian Association of Pediatric Surgery Network CAPSNet (National)

2018-current Co-Chair of ERAS Society Guidelines Committee


2018-current Board Member Pediatric ERAS Working Group.

2017-current Lead of ERAS Society: Neonatal Abdominal Surgery

2017 Local Host of Canadian Association of Pediatric Surgery National Meeting (Banff, October 2017)

2015-2018 Executive Board Member Canadian Association of Pediatric Surgery

GOVERNMENT AGENCIES

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ALBERTA HEALTH SERVICES

2018-current Lead of NSQIP, Alberta Children's Hospital

2018-current Member of Quality and Safety working group for the Surgery Strategic Care Network

2017-current Member of Surgery Strategic Care Network

2016-current Member Pediatric Surgery Working Group

2008-current Coordinator for Pediatric General Surgery electronic order sets

2013-2014 Co-Chair Hand Hygiene Committee, Alberta Children's Hospital

2011-2012 Co-Director Southern Alberta Pediatric Trauma, AHS

VIII. RESEARCH SUPPORT

Under Consideration

Awarded

2015-ongoing Research Lead "EQUIS OR- Efficiency, Quality, Innovation and Safety" **MacNeill Surgery Research Chair**
\$320,000 first year, \$200,000 yearly thereafter. (\$1,720,000 total 2015-2022)

2022-2024 Co-I "Illuminating the OR: From Individual Coaching to Video Review of Surgical Team Performance" **CRICO**
\$500,001 USD

2021-2022 Co-I "TeamSTEPS curriculum update" **AHRQ**
\$145,000 USD

2021 PI "Ariadne Labs project in Mumbai to respond to COVID-10 burnout in frontline staff." **Stavros Niarchos Foundation**
\$25,000

2020 Co-I (Asaf Bitton NPA) "Addressing Resource Needs in Healthcare Systems' COVID-19 Response" May 1, 2020- July 31, 2020 **Argosy Foundation**
\$100, 000 (USD)

2020-2023 Co-I "Elucidating the Role of Memory in the Transition from Acute to Chronic Pediatric Pain" **Canadian Institute for Health Research (CIHR)**
\$661,725

2019-2021 PI "Perioperative Care in Neonatal Abdominal Surgery: Implementation of an Enhanced Recovery After Surgery Guideline" Maternal Newborn Child & Youth Strategic Clinical Network™ (**MNCY SCN™**) Health Outcomes Improvement Fund II
\$185,695

2019-2020 Co-PI "Developing a pediatric rescue ECLS program " **ELSO** Research Grant (January 1,

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 2019-January 1, 2020)
 \$10,000

2018-2021 PI "The Surgical Safety Checklist Revisited: Redevelopment of a Point-of-Care Tool to Improve Surgical Safety" Project Scheme. **Canadian Institute for Health Research (CIHR)** (October 2018- September 2021)
 \$521,538

2018 PI "The Surgical Safety Checklist Revisited: Redevelopment of a Point-of-Care Tool to Improve Surgical Safety" Clinical Research Fund, **Calgary Center for Clinical Research**, Cumming School of Medicine, University of Calgary (April 2018- July 2020)
 \$300,000

2018 PI "The Surgical Safety Checklist Revisited: Redevelopment of a Point-of-Care Tool to Improve Surgical Safety" **Cumming School of Medicine Bridge Funding** (June 2018- June 2019)
 \$25,000

2017 PI "Developing a tailored surgical safety checklist for pediatrics at Alberta Children's Hospital" **Surgery Strategic Clinical Network** (June 2017-June 2019)
 \$10,000

2017-2018 PI "Developing a Point-of-Care Tool to Reduce Surgical Complications in High-Income Countries" **Alberta Children's Hospital Research Institute** Bridge funding (June 16, 2017-June 2018)
 \$25,000

2016-2018 PI, "Audit of implanted device-associated infections at the Alberta Children's Hospital' Clinical Research Fund Seed Grant, Calgary Center for Clinical Research. (June 30th, 2016- June 2018).
 \$20,000

2016-2017 PI, "The safety and efficacy of tranexamic acid in bleeding paediatric trauma patients: A systematic review of the literature" Emergency Strategic Clinical Network (ESCN) Systematic Review Grant Competition. (March 2nd, 2016- March 2017)
 \$15,000

2016-2017 PI, "Planning grant for health systems improvements in surgery: Expert focus group meeting" Clinical Research Fund Planning Grant, Calgary Center for Clinical Research (January 8, 2016-Jan 8, 2017)
 \$9961.92

2016-2018 Co-Investigator (Thompson G, Brindle ME, Eccles RC)"Using gene expression profiles to identify children with appendicitis" Surgery Strategic Clinical Network (July 2016- July 2017)

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 \$10,000

2016-2018 Co-Investigator (Harrop R, Brauer C, Lardner D, Brindle M) "Improving access for urgent surgical cases at the Alberta Children's Hospital: a rapid realist review". Surgery Strategic Clinical Network (July 2016-July 2017)
 \$10,000

2013-2015 PI "Improving outcomes following diaphragmatic hernia repair using national data, systematic review and prospective trials" ACHRI Pediatric Surgery Chair (May 2013-May 2015)
 \$60,000

2014 PI (Brindle M, Lai S, Chelikani P) "The effect of enteral fat infusion and glucagon-like peptide-2 hormonal therapy on intestinal adaptation in short bowel syndrome" Calgary Research Development Fund. (June 3rd, 2014-June 2016)
 \$4000

2011-2014 Co-PI (Skarsgard ED, Brindle ME, Hazell A, Bassil K, Arbour L) "CIHR Secondary Analysis of Databases: Canadian Pediatric Surgery Network (CAPSNet)" **Canadian Institute for Health Research (CIHR)**. (2011-September 2014).
 \$100,000


2012-2013 Co-Investigator (Boctor D, Brindle M) In office member grant. "Development of a patient education prototype for pediatric intestinal failure "North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Foundation. (November 2012-Nov 2013)
 \$4000

2010-2013 Co-Investigator (Lodha A, Brindle M, Amin H, Sigalet D) "Long-term Growth and Neurodevelopmental Outcomes of Newborns with Gastroschisis: A Cohort Study" Alberta Children's Hospital Foundation (Aug 2010-Aug 2013)
 \$6074.00

2010-2012 Co-PI (MA IWY, Brindle ME) Effects of Educational Strategies on Cognitive Load for Teaching Medical and Surgical Procedures: An Exploratory Study. UCMG
 \$10,000

2010-2011 Co-Investigator (Skarsgard ED, Puligandla P, Brindle ME, Laberge J-M, Yanchar N) The Canadian Pediatric Surgery Network (CAPSNet): Establishing Best Practices for Gastroschisis and Congenital Diaphragmatic Hernia CIHR Operating Grant (March 2010-March 2011)
 \$100,000

2008-2010 PI (Brindle ME, Amrein M, Lodha A) "Overcoming Surfactant Inhibition in Neonates and Infants: A Clinical Prospective Cohort Study with an Animal Model Correlate" ACH

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 Foundation Grant (May 2008-May 2010)
 \$49,200
- 2008-2010 Co-PI (Amrein M, Brindle ME) "Reversing Surfactant Dysfunction" Alberta Lung Foundation (June 2008 June 2010)
 \$40,000
- 2006 PI (Brindle ME) "Using growth factors to prevent pulmonary hypoplasia in a rat model" Research Prize University of Calgary Medical Group (July 2006-July 2008)
 \$75,000

IX. INVITED ADDRESSES

- 2022 Invited Speaker "Engineering and Re-engineering the Surgical Safety Checklist" Harvard TH Chan School of Public Health, Surgical Speaker Series, November 2022
- 2022 Chair "Building a positive culture and improving wellbeing in surgery" Advances In Surgery, International webinar, co-hosted with the American College of Surgeons, July, 2022
- 2022 Invited Speaker "ERAS: More Important than Ever During the Pandemic" ERAS Society, Madrid, Spain, June 2022
- 2022 Invited Speaker "Neonatal ERAS", Madrid Spain, June 2022
- 2022 Invited Speaker "Engineering the Future of the Surgical Safety Checklist: Enhancing team performance and improving patient outcomes" University of Manitoba Grand Rounds, Winnipeg, April 2022
- 2022 Invited Speaker "A High Performance Surgical Safety Checklist" Department of Surgery Grand Rounds, Memorial Sloan Kettering Hospital, New York, February 2022
- 2022 Invited Speaker "High Performance in Surgical Teams: Tools, coaching, and team-training" MGH Department of Surgery Grand Rounds, Massachusetts General Hospital, Boston, January 2022
- 2022 Invited Speaker "Enhanced Recovery After Surgery: Transforming Quality and Safety in Pediatric Surgical Care" MGH Division of Pediatric Surgery Grand Rounds, Massachusetts General Hospital, Boston, January 2022
- 2022 Invited Speaker "Developing and implementing enhanced recovery after surgery (ERAS) protocols for pediatric surgery", Hong Kong Surgical Forum, Hong Kong, January 2022
- 2021 Invited Speaker, Harvard Speaker Series, Center for Surgery and Public Health "Engineering the Future of the Checklist", Harvard, October, 2021
- 2021 Session Co-Chair "Equity Diversity and Inclusion for the Canadian Association of Paediatric Surgery", September, 2021.
- 2021 Invited Session Chair "Dealing with Healthcare Provider Burnout During the COVID-19 Pandemic" Hosted by LifeBox in partnership with SmileTrain, Act for Health Workers, Seed Global Health, G4 Alliance, Frontline Health Workers Coalition.
- 2021 Invited Session Chair "Solutions to Support Wellbeing for Surgical Teams" American College of Surgeons Quality and Safety Conference, Virtual session with presentations and panel. July 2021
- 2021 Invited speaker "Putting ERAS Guidelines into Practice" ERAS Society Implementation

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Webinar, July 2021

2021 "McMurtry Lecturer" keynote speaker "Bridging the Gap: How to translate what we know into what we do in surgical safety". Research Day, Department of Surgery, Cumming School of Medicine, University of Calgary. June, 2021

2021 Keynote Speaker "Leading change in Surgical Research", Section of Orthopedic Surgery, Annual Research Day, Cumming School of Medicine, University of Calgary, Calgary AB May 2021

2020 Keynote Speaker "Improving Neonatal Outcomes After Surgery", Department of Pediatrics, Resident Research Day, Cumming School of Medicine, University of Calgary, Calgary AB November 2020

2020 Visiting Professor "Enhanced Recovery After Surgery in Kids", McMaster University, Pediatric Surgery, Hamilton ON June 2020

2020 Invited Speaker, McGill University "ERAS", Montreal QC May 2020 (cancelled because of COVID-19)

2020 *[Invited Speaker, Surgeons' Day, Calgary, AB June 2020 (cancelled because of COVID-19)]*

2020 Invited Panellist "Women Leadership in Pediatric Surgery", Benji Brooks luncheon, APSA, Orlando FL (changed to virtual) May 2020

2020 Invited Speaker, "Pediatric ERAS" Pediatric Surgery Update, GlobalCastMD, Cincinnati, OH August 2020

2019 Invited Speaker "Working to Develop Safer Systems for Surgery" Ariadne Labs, Harvard School of Public Health, Boston Massachusetts, July 18th 2019

2019 Invited Speaker "Neonatal ERAS" World Congress in ERAS, Liverpool, UK, May 2019

2019 Invited Speaker "Update on Pediatric ERAS" World Congress in ERAS, Liverpool, UK, May 2019

2018 Invited Speaker "Neonatal ERAS" First World Congress in Pediatric ERAS, Richmond Virginia, November 2018

2018 Invited Speaker "Neonatal ERAS" Pediatric Anesthesia Conference of South Africa, Cape Town, November 2018

2018 Invited Speaker "Creating Research Teams" Canadian Association of Chairs of Surgical Research, Canadian Surgery Forum, St. John's Newfoundland, September 2018

2018 Keynote Speaker "ERAS protocol for neonatal intestinal surgery" World Congress of Enhanced Recovery After Surgery, Stockholm, Sweden, May 2018

2018 Keynote Speaker "The Last Gods of Surgery: The Evolution of Health Systems Approaches to Surgical Quality" Gastroenterology Retreat, Cumming School of Medicine, Calgary, March 2018


2017 International Invited Speaker "Revising the WHO checklist" Ames Research Center, NASA, November 2017

2017 Keynote Speaker "ERAS for Children: The Surgical Perspective" Canadian Pediatric Anesthesia Society, Toronto, November 3rd, 2017

2017 Provincial Invited Speaker "Pediatric Care" ERASAlberta Symposium, Calgary, January 27th, 2017

2013 National Invited Speaker "Operative Management of Pancreatic Injuries". Canadian Association of Pediatric Surgery, September 26th, 2013

2012 National Invited Speaker. "CAPSNet: Evolution of a multidisciplinary national

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- 2011 database. Society for Obstetrics and Gynecology. June 2012
- 2011 National Invited Panel Member: Controversies in Pediatric Trauma Management. Trauma Association of Canada, April 2011
- 2010 Provincial Key Note Speaker OR Nurses Annual Conference, Calgary, AB
- 2009 Provincial Early Risk Assessment Conference “Prenatal Screening and Diagnosis: Implications of New Technologies” Alberta Health Services, Maternal Fetal Medicine, September 26th, 2009
- 2009 National Plenary Speaker “Scientifically Yours” Educational Conference for High School Students pursuing Scientific Careers.

X. PUBLICATIONS/PRESENTATIONS

- i. Peer reviewed manuscripts (*indicates trainee, underlined indicates senior author)

Published

1. Elam ME, Louis CJ, **Brindle ME**, Woodson J, Greece JA “Using i-PARIHS to assess implementation of the Surgical Safety Checklist: an international qualitative study” BMC health services research 22 (1), 1-16, November 2022
2. Etheridge JC, Moyal-Smith R, Lim SR, Young TT, Tan HK, Sonnay Y, **Brindle ME**, Lim C, Rothbard S, Murray EJ, Havens JM “Utility of a Device Briefing Tool to Improve Surgical Safety” Journal of Surgical Research 280: 218-225, December 2022.
3. Beesoon S, Bakal JA, Youngson E, Williams KP, Berzins SA, **Brindle ME**, Joffe MA “Excess deaths during the COVID-19 pandemic in Alberta, Canada” IJID Regions 5:62-67, December 2022.
4. Kaelberer Z, Ruan M, Lam MB, **Brindle M**, Molina G “Medicaid expansion and surgery for HPB/GI cancers: NCDB difference-in-difference analysis” The American Journal of Surgery, Sept 2022.
5. Horkoff MJ, Kendal JK, Blackmore C, Truong TH, Guilcher GMT, **Brindle ME** “A population-based analysis of the presentation and outcomes of pediatric patients with osteosarcoma in Canada: a report from CYP-C” Canadian Journal of Surgery (65)4:E527-E533, July 2022
6. Cauley CE, Moyal-Smith R, Sinyard RD Wexner SD, Kaafarani H, Shapiro J, Turner PL, Ko C, **Brindle ME** “A Guide for Implementing Surgeon Resilience Initiatives: An Example of Surgical Peer Support” Annals of Surgery, July 2022
7. **Brindle ME**, Chung PHY “Report of 54th Annual Meeting of the Pacific Association of Pediatric Surgeons” Journal of Pediatric Surgery 57(7): 1187-1188, July 2022
8. Etheridge JC, Moyal-Smith R, Lim C, Yong TT, Tan HK, **Brindle ME**, Havens JH “Frequency of Device-Related Interruptions Using a Scalable Assessment Tool” The Joint Commission Journal on Quality and Patient Safety, June 2022

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9. Brock R, Chu A, Lu S, **Brindle ME**, Somayaji R “Postoperative complications after gastrointestinal pediatric surgical procedures: outcomes and socio-demographic risk factors” BMC Pediatrics: 22(1):1-10, 2022
10. Daodu O, Joharifard S, Morris MI, Saint-Vil D, Puligandla PS, **Brindle ME** “Antiracist practice for pediatric surgeons in Canada” CMAJ 194(23):E813-E814, June 2022
11. Cauley CE, Change DC, Lipsitz SR, **Brindle M**, Cooper Z, Ritchie CS “Multi-institutional Cohort Study of Elective Diverticulitis Surgery: a National Surgical Quality Improvement Program Database Analysis to Identify Predictors of Non-home Discharge Among Older Adults” J Gastrointest Surg, May 2022
12. Oodit R, Biccard BM, Panieri E, Alvarez AO, Sioson MRS, Maswime S, Thomas V, Kyuyts H-L, Peden CJ, de Boer HD, **Brindle M**, Francis NK, Nelson G, Gustaffson UO, Ljungvist O “Guidelines for Perioperative Care in Elective Abdominal and Pelvic Surgery at Primary and Secondary Hospital in Low-Middle-Income Countries: Enhanced Recovery After Surgery (ERAS) Society Recommendation” World Journal of Surgery 46: 1826-1843, May 2022
13. Pavlova M, Lund T, Sun J, Katz J, **Brindle M**, Noel M “A Memory-Reframing Intervention to Reduce Pain in Youth Undergoing Major Surgery: Pilot Randomized, Controlled Trial of Feasibility and Acceptability” Canadian Journal of Pain, April 2022
14. Blackwood J, Nikitovic D, Spence T, Khaira GK, **Brindle ME** “Setting up a Rescue Extracorporeal Life Support Program” ASAIO J, April 2022
15. Blackwood J, Zadunayski A, Spence T, Nikitovic D, **Brindle ME** “Key considerations in establishing a pediatric rescue extracorporeal life support program: A multi methods review” ASAIO J, April 2022
16. Lee MJ, Kim JK, Fervaha G, Chua ME, **Brindle ME**, Terry J, Koyle MA “A Canadian national survey: perspectives on routine pathological examination of hernia sacs after inguinal hernia and hydrocele repair among pediatric urologists, surgeons, and pathologists” Journal of Pediatric Urology, March 2022
17. Molina G, Haynes AB, **Brindle ME** “Where do we go now? Evolution of the surgical safety checklist in the era of high-performing programmes” Anaesthesia, Feb, 2022
18. Jancelewicz T, Langham MR, **Brindle ME**, Stiles ZE, Lally PA, Dong L, Wan JY, Guner YS, Harting MT “Survival Benefits Associated With the Use of Extracorporeal Life Support for Neonates With Congenital Diaphragmatic Hernia” Annals of Surgery, January 2022
19. Etheridge JC, Moyal-Smith R, Sonnay Y, **Brindle ME**, Yong TT, Tan HK, Lim C, Havens JM “Non-technical skills in surgery during the COVID-19 pandemic: An observational study” International Journal of Surgery, January 2022

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20. Mclsaac DI, Gill M, Boland L, Hutton B... **Brindle M**,... Wiheysundera D “Prehabilitation in adult patients undergoing surgery: an umbrella review of systematic reviews” British Journal of Anaesthesia, December 2021
21. Brindle M, Heiss K “Commentary on early enteral feeding versus traditional feeding in neonatal congenital gastrointestinal malformation undergoing intestinal anastomosis: A randomized multicenter controlled trial of an enhanced recovery after surgery (ERAS) component” Journal of Pediatric Surgery, September 2021
22. Panda N, Sinyard, Margo J, Henrich N, Cauley CE, Ponnella J-P, Haynes AB, **Brindle M** “Perceptions of Mobile Health Technology in Elective Surgery: A Qualitative Study of North America Surgeons, ”Annals of Surgery, Sept, 2021
23. Sotto, KT, Burian BK Brindle ME “Impact of the WHO Surgical Safety Checklist Relative to Its Design and Intended Use: A Systematic Review and Meta-Meta-Analysis” Journal of the American College of Surgeons, Sept 2021
24. Oodit R, Biccard B, Nelson G, Ljungqvist O, **Brindle ME** “ERAS Society Recommendations for Improving Perioperative Care in Low and Middle-Income Countries Through Implementation of Existing Tools and Programs: An Urgent Need for the Surgical Safety Checklist and Enhanced Recovery After Surgery”, World Journal of Surgery, 45: 3246-3248, May 2022
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4. Kurnet VH, Soliman N, Cooper S, **Brindle M** "Gastroschisis with associated bladder herniation: an antenatal presentation of a rare complication". *Ultrasound in Obstetrics and Gynecology* 44(S1): 244-244. 2014.
5. Gunesevara LC, Lodha A, **Brindle M**, Yang A, Amrein M "Pulmonary surfactant function is not affected by blood plasma in-vitro" *Epithelial Cells in Injury and Repair. American Thoracics Society* A3449. 2014
6. Khan A, Martin SR, **Brindle M**, Parsons S, Haider S, Prokopishyn N, Yap J "Liver cell transplantation as a "bridge" therapy for urea cycle disorders: The Calgary experience". *Clinical Biochemistry* 47(15):150-151. 2014
7. Emre S, **Brindle M**, Opladen T, Khan A, Barshop B, Burton B, Lindner M, Martin S, Meyberg J, Haberle J, Shenck J, Seashore M, Yudkoff M, Kasting S, Ruedinger W, Hoffman G "Outcome in children with urea cycle defect after hepatocyte transplantation". *Transplantation* 98:299-299. 2014.
8. Adeleye A, **Brindle M**, Bailey M, Bjornson C, Nettel-Aguirre A, Mitchell I "Proton pump inhibitor in esophageal atresia/tracheoesophageal fistula: dilation outcome study (protect study)". *Am J Respir Crit Care Med* 189. 2014
9. Lai SW, de Heuvel E, Wallace LE, **Brindle ME**, Chelikani PK, Sigalet DL "Outstanding abstract: Medium chain triglycerides are more potent than long chain triglycerides in inducing jejunal adaptation after massive ileocecal resection in rats" *Clinical Nutrition* 33: S116-S117. 2014. Recognized as an outstanding abstract at the European Society for Parenteral and Enteral Nutrition, Sept 2014.
10. Opladen T, Khan A, Barshop BA, **Brindle M**, Burton BK, Emre SH, Lindner M, Martin SR, Meyburg J, Haeberle J, Schenk J-P, Seashore MR, Yudkoff M, Rennecke M, Ruedinger W, Hoffmann GF "Clinical outcome in children with UCD after liver cell therapy in comparison to a control population". *Molecular Genetics and Metabolism*, 11(3): 237-238. 2014.
11. Sigalet DL, Lam V, **Brindle M**, Boctor DL, Hartmann B, Wallace L, Stanger JD, Holst JJ "Glucagon-like peptide-2 production and sensitivity in infants post-resection or gastroschisis". *Gastroenterology* 146(5): s-544. 2014

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12. Sigalet DL, Lam B, Karnik V, **Brindle M**, Hartmann B, Boctor DL, Dicken B, Stoffman S, de Heuvel E, Wrightwilson G, Wallace L, Host JJ "Safety and dosing study of glucagon-like peptide-2 in children with intestinal failure. *Gastroenterology* 146(5): s-544. 2014
13. Lodha A, **Brindle M**, Yang A, Amrein M, Gunasekara LC "Pulmonary surfactant function is not affected by blood plasma in vitro study" *American Journal of Respiratory and Critical Care Medicine* 189:A3449. 2014
14. Oliveira C, Nasr A, **Brindle M**, Wales PW. "Ethanol locks to prevent catheter-related bloodstream infections in pediatric intestinal failure: systematic review and meta-analysis". *Pediatric Transplantation*, 15(S1) s1: 120
15. Ma I, **Brindle M**, Ronsky P, Lorenzetti D, Sauve R, Ghali W. "Outcomes of simulation-based education in central venous catheterization: a systematic review and meta-analysis". *Academic Medicine*, 5(3):62. 2011
16. Silva C, Daneman A, Moore A, Navarro O, **Brindle M**, Moinedden PHD et al. "Correlation of sonographic findings and outcome in necrotizing enterocolitis" *Pediatric Radiology*, 36(S13):69, 2006
17. **Brindle M**, Dimmitt R, Colby C, Kay MA, Skarsgard E. "Infusion techniques for the delivery of gene therapy to the fetus" *Molecular Therapy*, 3(5):S393, 2001.

iii Presentations

LOCAL


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| 2014 | Guest Speaker: OR Nurses Educational day. |
| 2013 | Education session "Intestinal failure in infants", Nursing education session. |
| 2012 | Post-anaesthetic nursing rounds: Patent Ductus Arteriosus |
| 2010 | |
| 2010 | Pediatric Surgery Grand Rounds |
| 2010, 2012, 2017 | Neonatology Grand Rounds |
| 2007 | Lecturer "Coagulopathy in the Trauma Patient" Trauma Rounds |
| 2010 | Guest Speaker: OR Nurses Educational day. |
| 2009 | Lecturer and Facilitator: Neonatal Nursing Issues Educational Day |
| 2008 | Lecturer "Abdominal Trauma" Nursing Education Rounds |
| 2008 | Lecturer "Abnormal Pulmonary Development with CDH" for Respiratory Research Group |

NATIONAL AND INTERNATIONAL

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| 2019 | Daodu, OO, Zondervan N, Urban D, Bain P, MacRobie A, Brindle ME
"Literature-based Benchmarks for Pediatric Appendectomy and Cholecystectomy Complications in High-income Countries: A Systematic Review" Pacific Association of Pediatric Surgeons, Christ Church, New Zealand, March 2019. |
| 2018 | Brindle ME, Laura Rivera*, Luke Green*, Megan Crosby*, Janaka Lagoo*, Steven Lopushinsky, Helene Flageole "Refining The Pediatric Surgical Checklist (SSC) Based on User Needs" Canadian Association of Paediatric Surgeons. Toronto, ON, October 2018 |

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- 2018 Brindle ME, Laura Rivera, Luke Green*, Megan Crosby*, Janaka Lagoo*, Steven Lopushinsky, Helene Flageole “Parental Perceptions of the Surgical Safety Checklist (SSC): A Mixed Methods Study” Pacific Association of Pediatric Surgeons. Sapporo, Japan, May 2018
- 2017 Harting MT, Jancelewicz T, Brindle ME, Lally PA, Lally KP “Towards consensus in the management of congenital diaphragmatic hernia (CDH): an overview of North American clinical practice guidelines” Congenital Diaphragmatic Hernia International Symposium. Liverpool, November 2017
- 2017 Jancelewicz T, Brindle ME, Lally PA, Harting MT “Mortality patterns and use of extracorporeal membrane oxygenation (ECMO) in congenital diaphragmatic hernia (CDH)” Congenital Diaphragmatic Hernia International Symposium. Liverpool, November 2017
- 2017 Lagoo J*, Lopushinsky SR, Haynes AB, Skarsgard ED, Flageole H, Brindle ME “Qualitative Review of Pediatric Surgery Checklists in Clinical Practice” Canadian Association of Paediatric Surgery. October 2017
- 2016 Lagoo J*, Lopushinsky SR, Haynes AB, Skarsgard ED, Flageole H, Brindle ME “Pediatric Surgical Safety Checklists: A Systematic Review with Narrative Synthesis”, Canadian Association of Paediatric Surgery. September 2016
- 2016 Daodu T*, Brindle ME, Alvarez-Allende C, Lopushinsky “A solid organ injury protocol to decrease length of stay” , Canadian Association of Paediatric Surgery. September 2016
- 2015 Ma I, Pugh D, Mema B, Brindle M, Cooke L, Stromer J “Procedural Incompetence: error based checklist vs conventionally constructed checklist” An International Association for Medical Education (AMEE), September 7 2015.
- 2014 Lam J, Brindle ME “Treatment options for the pediatric patent ductus arteriosus: systematic review and meta-analysis” Canadian Association of Paediatric Surgery. September 2014
- 2014 Ben Turner, Brindle ME “Sociodemographic predictors of gastroschisis outcomes in the United States” Canadian Association of Paediatric Surgery. September 2014
- 2014 Ben Turner, Dasgupta R, Brindle ME “A contemporary prediction rule for esophageal atresia (EA) and trachea-esophageal fistula (TEF)” Pacific Association of Pediatric Surgery. May 2014
- 2013 Brindle ME, Cook EF, Lally P, Lally K “A Clinical Prediction Rule for CDH”. International CDH Workshop, Rotterdam June 10th, 2013.
- 2012 Hazell A, Bassil K, Arbour L, Brindle M, Skarsgard E, Canadian Pediatric Surgery Network. Geographic variation and clustering of gastroschisis in Canada. The 39th ICBDSR and 10th CCASN Joint Annual Scientific Meeting, Ottawa October 30th, 2012.
- 2012 Beres A, Wales PW, Brindle ME. Non-operative management of pancreatic trauma: is it worth the wait? Canadian Association of Pediatric Surgery, Victoria Sept 20th, 2012.
- 2011 Walzak A, Brindle ME, Bacchus CM, Schaefer J, Ma I. Development of a

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Comprehensive Set of Assessment Tools for Evaluation of Procedural Skills in Internal Medicine. Simulation Summit, Montreal, November, 2011.
- 2011 Brindle ME, Flageole H, Wales PW. Influence of Maternal Factors and Health Outcomes in Gastroschisis: A population-based study Canadian Association of Pediatric Surgery, September, 2011.
- 2010 Brindle ME, Skarsgard ED. Morbidity and Mortality Associated with Patch Repair in Congenital Diaphragmatic Hernia. Pediatric Academic Society, Vancouver, BC, May, 2010.
- 2009 Brindle ME, Ma IWY, Skarsgard ED. Establishment of pre-treatment blood gas targets improves survival in infants with congenital diaphragmatic hernia (CDH)". American Pediatric Surgical Association Meeting, Fajardo, Puerto Rico, May, 2009.
- 2009 Brindle ME, Brar M, Skarsgard ED. Patch repair is associated with significant morbidity and mortality in infants with congenital diaphragmatic hernia (CDH). American Pediatric Surgical Association Meeting, Fajardo, Puerto Rico, May, 2009.
- 2008 Ein S, Brindle ME. The best 10 clinical articles for the last 50 years from the Division of General Surgery, Hospital for Sick Children, Toronto, Ontario, Canada. British Association of Paediatric Surgeons, Salamanca, Spain, July 2008.
- 2003 Brindle ME, Skarsgard ED. Dynamic esophageal lengthening for long-gap esophageal atresia" Resident's Research Day, University of British Columbia. April, 2003.
- 2002 Brindle M, Bachmann M, Skarsgard E, Contag C. Achievement of long-term expression and wide-distribution with pulmonary delivery of adeno-associated viral vector WB & MH Chung Lectureship, University of British Columbia.
- 2002 Brindle M, Bachmann M, Skarsgard E, Contag C. "Long-term statement and wide distribution of serotype 5 adeno-associated virus (AAV5) achieved with perfluorocarbon-aided delivery". American Academy of Pediatrics, Boston MA. October, 2002.
- 2002 Brindle ME, Skarsgard ED. Improving DNA-based therapies for the Lung. Resident's Research Day, University of British Columbia. April, 2002.
- 2002 Brindle ME, Skarsgard ED. Development of DNA-based therapies for the Fetus. Fetal Surgery Symposium, University of British Columbia, April, 2002.
- 2001 Brindle ME, Skarsgard ED. Gene Delivery to the Lung. Royal College of Physicians and Surgeons, Canadian Association of General Surgery, Resident Retreat, Quebec, QC. September 2001.
- 2001 Brindle ME, Skarsgard ED. Delivery and Monitoring of Gene Therapy in the Lung Residents' Research Day, University of British Columbia, April 19th, 2001.
- 1999 Brindle ME, Murphy J. Correlation of prenatal ultrasound findings with clinical outcome in gastroschisis. WB & MH Chung Lectureship, University of British Columbia.
- vii Illustration
- 2018 "Acteon" (Detail) Roscoe Magazine, September 2018
- 2016 3 images "Breast Disorders" in Not a Text Book, American Pediatric Surgical

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Association (In Press)
- 2015 2 images Irene Ma "Basics of Ultrasound". Illustrations in Ultrasonography in the ICU: Practical Applications, Springer. 2015
- 2001 2 images Colby C "Minimally Invasive Laparotomy for Treatment of Neonatal Ovarian Cysts" Journal of Pediatric Surgery. 36(6):868-9, 2001
- 2001 1 image Dimmitt RA, Moss RL "Clinical Management of Necrotizing enterocolitis" Illustration in Neoreviews 2:e110-e117. 2001

Knowledge Translation Activities

- 2019 Primary Facilitator and Host: The High Performance Checklist Project. Boston, MA December 2019 *An international in-person convening to develop strategies to improve Surgical Safety Checklist performance at Ariadne Labs, Harvard TH Chan School of Public Health. 30 participants from US, Canada, UK, New Zealand.*