

CURRICULUM VITAE

I. BIOGRAPHICAL DATA:

Name: Ayman Abou Mehrem

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Present Rank: Clinical Associate Professor

Department: Department of Paediatrics
Cumming School of Medicine
University of Calgary, AB, Canada

Present positions: Neonatologist,
Section of Neonatology, Department of Paediatrics
Alberta Health Services – Calgary Zone, AB, Canada

Clinical Knowledge Lead – Neonatal Intensive Care
Clinical Knowledge and Content Management (CKCM)
Alberta Health Services

ORCID: [0000-0003-3805-949X](https://orcid.org/0000-0003-3805-949X)

Scopus ID: [35748384000](https://scopus.com/authorid/35748384000)

II. ACADEMIC RECORD:

Final Degree: Medical Doctor
Date Completed: 1997/08
Specialty: Faculty of Medicine
Institution/City/Country: University of Damascus

Final Degree: Master of Science
Date Completed: 2018/10
Specialty: Health Information Science
Institution/City/Country: University of Victoria, British Columbia, CANADA

i. Undergraduate, graduate, and professional:

1991/10 - 1997/08	Medical Doctor, Faculty of Medicine, University of Damascus, SYRIA
1997/11 - 2001/11	The Arab Board of Medical Specialization, University of Damascus, SYRIA
2010/03 - 2013/02	Subspecialty Residency Training Program, University of Manitoba, CANADA
2018/10	Master of Science, Health Information Science, University of Victoria, CANADA

ii. Certification:

2021/09	Neonatal Perinatal Medicine, Subspecialty Examination Affiliate Program, Royal College of Physician and Surgeon of Canada
2013/02	Neonatal-Perinatal Medicine Fellowship, University of Manitoba, Neonatal-Perinatal Medicine, CANADA
2002/03	Certificate of Arab Board of Pediatrics, The Arab Board of Medical Specialization, Pediatrics, SYRIA
2001/05	Diploma of Pediatrics Ministry of Health, SYRIA

iii. Licensures:

2013/03 - Present	License, College of Physician and Surgeon of Alberta, Neonatal-Perinatal Medicine
2010/03 - 2013/02	Educational License, College of Physician and Surgeon of Manitoba, Neonatal-Perinatal Medicine
2012/06	Licentiate of the Medical Council of Canada, Medical Council Of Canada, CANADA
2002/05 - 2010/05	Senior Registrar, Saudi Commission for Health Specialties, Pediatrics, SAUDI ARABIA
2017	Neonatal Resuscitation Program (NRP) Instructor Canadian Pediatric Society, SYRIA
2007	Neonatal Resuscitation Program (NRP) Instructor SAUDI ARABIA

iv. Continuous Professional Learning:

2020/02/29	Introduction to Data for Health Research Hosted by Alberta SPOR SUPPORT Unit
2019/02 – 2019/06	CPE 222 - 001 Leadership in Patient-Oriented Research: Pragmatic Clinical Trials Certificate. Hosted by Alberta SPOR SUPPORT Unit
2019/04/18	R2C2 Evidence-Informed Facilitated Feedback Workshop, hosted by University of Calgary.
2019/04/10	Workshop on "NIPPV in Neonates, All we need to know" by Professor Vineet Bhandari, Drexel University. Hosted by Section of Neonatology, Calgary.
2018/04/17	Near-infrared Spectroscopy (NIRS) Workshop by Dr. Jonathan Mintzer. Hosted by the Section of Neonatology, Calgary.
2018/02/13	Sonographic Clinical Assessment of the Newborn (SCAN) Workshop, Banff, AB
2017/11/6 & 7	Point of Care Ultrasound Workshop, Health Sciences Centre, Winnipeg, MB
2016/09/12-15	Pediatric Flexible Bronchoscopy Workshop, Cincinnati Children's Hospital, Cincinnati, OH, USA
2014/09 – 2015/05	Mentorship Curriculum in the Department of Pediatrics, University of Calgary
2015/10/1 & 2	Crucial Conversations Training Course, the Canadian Medical Association, Calgary, AB
2015/03/03	Evidence-Based Practice for Improving Quality (EPIQ) Workshop, Calgary, AB
2015/03/09	Alberta Health Services Improvement Way (Yellow Belt), Calgary, AB
2014/05/22 & 23	Pediatric Advanced Life Support (PALS).
2014/04/2-23	New Faculty workshop Orientation (4 Sessions), University of Calgary.
2014/02/25	Workshop in Simulation Education (WISE 1)
2012/01/23	Animal User Training Course: Biomedical, University of Manitoba
2011/11 – 2012/03	Writing for Your Professional Life, Department of Medical Education, University of Manitoba, MB

2011/06/14	Helping Babies Breathe, Canadian Pediatric Society 88 th Annual Conference, Quebec City, QC
2010/09/10	Advanced SPSS Workshop, Manitoba Institute of Child Health, University of Manitoba, MB
2010/09 – 2010/12	Principles of Epidemiology 1 (CHSC 7520), University of Manitoba, MB
2010/09 – 2010/12	Biostatistics 1 (CHSC 7470), University of Manitoba, MB
2010/05	Teaching Improvement Program (TIPs) workshop, University of Manitoba, MB
2010/02	CAMATA, Air Medical Transport Course Level 1, Winnipeg, MB

III. AWARDS AND DISTINCTIONS:

2018	Bronze Award for Teaching Contributions in Course 6 (MDCN 460), Undergraduate Medical Education, University of Calgary
2017	University of Victoria Graduate Award (CA \$6506.83). This award is granted for graduate students with high academic standing., University of Victoria
2015	University of Calgary Associate Dean's Letter of Excellence for teaching excellence in Course 6 (MDCN 460), Undergraduate Medical Education, University of Calgary
2015	Bronze Award for Teaching Contributions in Course 6 (MDCN 460), Undergraduate Medical Education, University of Calgary
2013	Canadian Pediatric Society Best Trainee Research Presentation Award for the platform presentation “Laryngeal Mask Airway of Endotracheal Intubation for Advanced Newborn Resuscitation: A Randomized Cross-over Trial in High Fidelity Simulation Model” at the 90 th annual conference, Edmonton.
2013	Best Poster Award for abstract “Time to confirm effective ventilation in neonatal resuscitation: the human factor” at the 21 st Western Perinatal Research Meeting, Banff.
2012	Travel Award Manitoba Institute of Child Health
2009	Certificate of Appreciation: Outstanding contribution in the Baby Friendly Hospital International Accreditation, King Abdulaziz National Guard Hospital and Ministry of Health, SAUDI ARABIA

IV. ACADEMIC AND MEDICAL LEADERSHIP APPOINTMENTS:

i. Academic Appointments:

- 2020 – Present Clinical Associate Professor, Department of Paediatrics
Cumming School of Medicine, University of Calgary, CANADA
- 2013 – 2020 Clinical Assistant Professor, Department of Paediatrics
Cumming School of Medicine, University of Calgary, CANADA

ii. Clinical Appointments:

- 2013 – Present Neonatologist,
Section of Neonatology, Department of Paediatrics
Alberta Health Services – Calgary Zone, AB, Canada
- 2010 – 2013 Neonatal-Perinatal Medicine Fellow
Department of Pediatrics, Faculty of Medicine
University of Manitoba
- 2009 – 2010 Associate Consultant
Section of Neonatology, Department of Pediatrics
King Abdulaziz National Guard Hospital
Al-Ahsa, SAUDI ARABIA
- 2005 – 2009 Assistant Consultant
Section of Neonatology, Department of Pediatrics
King Abdulaziz National Guard Hospital
Al-Ahsa, SAUDI ARABIA
- 2004 – 2005 Staff Physician
Section of Neonatology, Department of Pediatrics
King Abdulaziz National Guard Hospital
Al-Ahsa, SAUDI ARABIA
- July 2005 Locum Assistant Consultant
Section of Neonatology, Department of Pediatrics
King Faisal Specialist Hospital and Research Centre
Riyadh, SAUDI ARABIA
- 2002 – 2004 Specialist Pediatrician
Al-Mana General Hospital, Al-Ahsa, SAUDI ARABIA

iii. **Leadership Appointments:**

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| 2018 – Present | FMC Site Investigator (representative), Canadian Neonatal Network, Canadian Preterm Birth Network, and the national Evidence-Based Practice for Improving Quality (EPIQ). |
| 2017 – Present | Provincial Clinical Knowledge Lead – Neonatal Intensive Care
Clinical Knowledge and Content Management (CKCM) Services
Alberta Health Services, AB, Canada |
| 2015 – 2018 | Deputy Medical Lead - Neonatology
Foothills Medical Centre
Calgary, Alberta Health Services |
| 2011 – 2012 | Chief Fellow, Neonatal-Perinatal Medicine Fellowship Program
Department of Pediatrics, Faculty of Medicine
University of Manitoba |

V. **EDUCATIONAL ACTIVITIES:**

i. **University of Calgary - Undergraduate:**

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| 2013 – Present | Children & Women’s Health Course (MDCN 460)
Clinical Core – Well Baby Exam
Cumming School of Medicine, University of Calgary
(~ 4-6 hours/year) |
| 2015 – Present | Children & Women’s Health Course (MDCN 460)
Clinical Core – Well Child Exam
Cumming School of Medicine, University of Calgary
(4 hours) |
| 2015 – Present | Children & Women’s Health Course (MDCN 460)
Small Group – Cases in Neonatology, Jaundice and unwell neonate
Cumming School of Medicine, University of Calgary
(2 hours/year) |
| 2013 - Present | Pediatric Clerkship (MDCN 508)
Pediatrics Academic Half Day (Small Group)
Cumming School of Medicine, University of Calgary
(~ 3-9 hours/year) |

- 2014 – 2015 Applied Evidence Based Medicine (MDCN 440), Preceptor
Cumming School of Medicine, University of Calgary
(36 hours)
- 2013 – Present NICU Rotation Preceptor
Clinical Clerk Neonatology Rotations
Cumming School of Medicine, University of Calgary
(14 - 20 weeks/year)
- 2018 Examiner – Clerkship Certifying OSCE
Cumming School of Medicine, University of Calgary
(8 hours)
- 2019 – 2020 Interviewer – Multiple Mini Interviews
Cumming School of Medicine, University of Calgary
(8 hours)

ii. University of Calgary – Graduate:

- 2015 Member – MSc Supervisory Committee
Dr. Ahmad Imran
Thesis: Prevalence and impact of intermittent hypoxemic events on cardiovascular responses, regional cerebral oxygenation, and hypoxia-associated biomarkers in preterm infants.
Department of Pediatrics and Cardiovascular and Respiratory Sciences Graduate Program
Cumming School of Medicine, University of Calgary

iii. University of Calgary – Postgraduate Medical Education:

- 2013 – Present Lecturer/preceptor – Neonatal-Perinatal Medicine fellows academic half-day
Respiratory Club/ Journal Club / Electronic Medical Records /
Benchmarking in Neonatology / Simulation / OSCE training /
Introduction to QI / Lung Ultrasound
Neonatal-Perinatal Medicine Residency Program
Cumming School of Medicine, University of Calgary
(~ 6 hours/year)
- 2014 – Present Lecturer/preceptor – Neonatal-Perinatal Medicine new fellows' orientation
Resuscitation and Stabilization of Preterm Infants
Admission and Discharge using SCM forms
Neonatal-Perinatal Medicine Residency Program
Cumming School of Medicine, University of Calgary
(~ 3 hours/year)

- 2016 – Present Lecturer – Didactic Residents Teaching during NICU rotations
Respiratory Management in the NICU
The Golden Hour: Resuscitation and Stabilization of Preterm Infants
Pediatric/Medical Genetics/Neurology Residency Programs
Cumming School of Medicine, University of Calgary
(2 hours/block = approximately 26 hours/year)
- 2018 Preceptor – Pediatric residents academic half day
Procedural skills – NRP station
Pediatric Residency Program
Cumming School of Medicine, University of Calgary
(2 hours)
- 2018 Lecturer – Neurosurgery residents academic half day
Common Respiratory Disorders of the Newborn
Neurosurgery Residency Program
Cumming School of Medicine, University of Calgary
(1 hour)
- 2013 – Present Preceptor – NICU Rotations at FMC and ACH
Rotating fellows
Neonatal-Perinatal Medicine Residency Programs
Cumming School of Medicine, University of Calgary
(~ 17 weeks/year)
- 2013 – Present Preceptor – NICU Rotations at FMC, ACH, and PLC
Rotating residents
Pediatric/Medical Genetics/Neurology Residency Programs
Cumming School of Medicine, University of Calgary
(~ 17 weeks/year)
- 2014 – Present Preceptor – NICU Rotations at PLC
Rotating residents, Family Medicine Residency Program
Cumming School of Medicine, University of Calgary
(~2 weeks/year)
- 2013 Preceptor – NICU Rotations at RGH
Rotating residents, Anesthesia and Pediatric Residency Program
Cumming School of Medicine, University of Calgary
(1 week)
- 2013 – Present Preceptor – Neonatal Clinical Round
Section of Neonatology
(10 hour)

2013 – Present Preceptor – Neonatal Grand Round
Section of Neonatology
(1 hour)

iv. University of Calgary – Continuing Medical Education:

2013 – Present Presenter – Neonatal Grand Round
Section of Neonatology
(3 hours)

2013 – Present Presenter – Neonatal Clinical Round
Section of Neonatology
(7 hours)

2013 – Present Presenter – Neonatal Journal Club
Section of Neonatology
(3 hours)

2019 Presenter – Child Health Research Rounds (ACHRI)
(1 hour)

v. Evidence-based Practice for Improving Quality (EPIQ) - National and International:

2019 – Present Facilitator – EPIQ Workshop

2020 – Present Master Facilitator – EPIQ workshop

2022 – Present Member, EPIQ Education Committee

VI. ADMINISTRATIVE RESPONSIBILITIES:

i. Sectional / Departmental:

2020 - Present Member, Clinical Promotion Advisory Committee, Department of Pediatrics,
University of Calgary

2020 - Present Member, Pediatric Virtual Care Steering Committee – South Sector, Department of
Pediatrics, University of Calgary

2018 - Present Co-Chair, Calgary Neonatal Quality Improvement Committee (NQIC): this
committee oversees quality improvement activities in all Calgary Zone NICUs.
This committee meets every 2 months.

2015 – 2018 Member, Calgary Zone Neonatal Quality Improvement Committee (NQIC)

2014 - Present	Chair, Stabilization and Resuscitation during Transition (START) Committee: this committee is responsible for guidelines on management of newborn infants in the delivery room at FMC.
2018 - Present	Co-chair, Respiratory Health Group (formerly Optimal Lung Working Group): This group focuses on optimizing respiratory management of sick neonates in Calgary Zone through guidelines development and QI
2013 - 2018	Member, Optimal Lung Working Group (Currently the Respiratory Health Group).
2014 - 2018	Member, Continuity of Care for patients with Bronchopulmonary Dysplasia (BPD) Working Group
2021 - Present	Member, Section of Neonatology Research Committee
2013 - Present	Member, Regional Section of Neonatology Monthly Meeting
2013 - Present	Member, Calgary Neonatal Database Committee
2015 - Present	Member, Calgary Neonatal Care Committee (CNCC)
2015 - Present	Member, FMC NICU Steering Committee
2015 - Present	Member, FMC Infection Prevention & Control (IP&C) Committee
2015 - Present	Member, Policies/procedures/processes in NICUs in Calgary (PINC) – formerly, the Neonatology Coordinating Committee.
2014 - Present	Member, Retinopathy of Prematurity tracking Group: identify the best methods to track preterm patients who are eligible for ROP screening and ensure their follow up while transferred between hospitals and after discharge.
2017 - Present	Member, Pediatric Resuscitation QI Steering Committee
2014 - 2016	Member, Simulation Working Group: This group aims to provide the standardized training for the NICU staff through simulation.
2013 - Present	Electronic Documentation of NICU Admission Notes and Discharge Summary in SCM: Leading the design, development, implementation, and maintenance electronic documentation, initially in standardized macro-enabled MS Office Word templates, and more recently in SCM. Those 2 documents are described by SCM staff as the most comprehensive admission and discharge summary documents in the region. Those 2 documents enabled automated data transfer from SCM to our NICU database.

2013 - 2016	Member, Perinatal Care Committee - Peter Lougheed Centre
2014 - 2014	Member, ACH NICU Advisory Committee
2015 - 2018	Member, FMC Women's Health Site Leadership Committee
2015 - 2018	Member, FMC Site Leadership Council
2013 - 2013	Policy development, Chair, Vitamins and minerals supplementation in the NICU (Peter Lougheed Centre)
2013 - 2013	Policy development, Member, Natural (Delayed) Cord Clamping in Preterm Infants.
2014 - 2015	Policy development, Member, Development of Clinical Practice Guidelines: Retinopathy of Prematurity Screening.
2016 - 2016	Voluntary professional services, Advisor, PLC New NICU moving simulation.

ii. Faculty:

2019 - Present	Member, Cumming School of Medicine Nominating Committee (NC): The Nominating Committee nominates suitable candidates for approval by the Faculty Council to serve on the various Cumming School of Medicine standing committees. The committee is accountable to both the Executive Faculty Council (EFC) and the Faculty Council (FC).
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iii. University:

2014 - Present	Member, Alberta Children's Hospital Research Institute(ACHRI) Maternal and Child Health Program
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iv. Provincial / Regional Health:

a. Connect Care and CKCM:

2022 - Present	Member, Calgary Zone Connect Care Implementation Leadership Team
2018 - Present	Member, Connect Care Critical Care Area Council: This committee is responsible for Clinical System Design and Validation for all Critical Care areas in AHS including Adult, Pediatrics, and Neonatal. This committee meets every 2 weeks.



- 2018 - Present Member, Connect Care Critical Care Area Council Neonatal Subcommittee: This committee is responsible for Clinical System Design and Validation for Neonatal Critical Care across the province. This committee meets every 2 weeks.

- 2018 - Present Member, Connect Care Critical Care Area Council Support Unit: This committee meets once a week to triage new work items, identify concerns and prepare materials for the greater Critical Care Area Council and the three specialty sub-groups (Adult, Pediatrics, and Neonatal)

- 2018 - Present Member, Connect Care Child Health Area Council: This committee is responsible for Clinical System Design and Validation for all Child Health areas in AHS. This committee meets every 2 weeks.

- 2018 - Present Member, Connect Care Clinical Decision Support - Advanced Decision Support Subcommittee (CSD - ADSS): This committee is responsible for developing provincial standards for order sets development across specialties and resolving discrepancies. This committee meets weekly.

- 2018 - Present Program or process development, Chair, Connect Care Neonatal Order Sets Development Group: I recruited authors for provincial NICU order sets to be ready for Connect Care Wave 1 launch. The work included content development, supervising the build, and performing validations.

- 2017 - 2018 Committee, Member or participant, Provincial Clinical Knowledge Leads Meeting: this meeting for all CKCM (Clinical Content and Knowledge Management) staff to discuss development of knowledge topics in all specialties. This committee was meeting monthly until November 2018 then was replaced with CDS - ADSS committee.

- 2015 - 2015 Consultation, Member, Provincial Clinical Information System Request For Proposals.

b. Alberta eCritical Program:

- 2013 - 2018 Committee, Member or participant, eCritical Clinical Design Team

- 2016 - 2018 Committee, Member or participant, Provincial eCritical NICU Advisory Group

- 2013 - Present Committee, Member or participant, TRACER Steering Committee

c. Maternal, Newborn, Child, and Youth Strategic Clinical Network:

- 2017 - Present Member, NICU Standing Committee, Maternal, Newborn, Child, and Youth Strategic Clinical Network (MNCY SCN)

- 2017 – 2019 Chair, Hypoxic Ischemic Encephalopathy Provincial Pathway Working Group
- 2018 - Present Member, Newborn Hyperbilirubinemia Guidelines Working Group

d. Southern Alberta Virtual NICU Program:

- 2013 - Present Program or process development, Chair, Southern Alberta Virtual NICU (Tele-Neonatology) Program.
- 2014 - 2014 Site visit, Chair, Needs Assessment Visit for Southern Alberta Tele-Neonatology Project - Pincher Creek and Brooks.
- 2016 - 2016 Site visit, Chair, Needs Assessment Visit for Southern Alberta Tele-Neonatology Project - Medicine Hat
- 2016 - 2016 Site visit, Chair, Needs Assessment Visit for Southern Alberta Tele-Neonatology Project – Canmore
- 2015 - 2016 Policy development, Chair, Developing Southern Alberta Tele-Neonatology Guidelines.

v. National / International Health:

- 2021 - Present Member at Large, Executive Committee, Section of Neonatal-Perinatal Medicine, Canadian Paediatric Society
- 2021 - Present Co-Chair, The Golden Hour Task Force, Brain Health Group, National Evidence-based Practices for Improving Quality (EPIQ)
- 2019 - 2020 Member, Organizing Committee, The 7th Canadian National Perinatal Research Meeting 2020, Banff, AB.
- 2017 - 2018 Member, Organizing Committee, The 5th Canadian National Perinatal Research Meeting 2018, Banff, AB.
- 2018 - Present FMC Lead for the Canadian Neonatal Network (CNN)
- 2018 - Present FMC Neonatal Lead for the Canadian Preterm Birth Network (CPTBN).
- 2018 - Present FMC Lead for the Evidence-based Practice for Improving Quality (EPIQ) which is a national initiative to improve outcomes of infants born at < 29 weeks' gestation.
- 2018 - Present Member, National Brain Health Group: This is part of the National EPIQ project.

- 2018 - Present Member, National Gut Health Group: This is part of the National EPIQ project.
- 2018 - Present Member, National Lung Health Group: This is part of the National EPIQ project.
- 2018 - 2018 Site visit, Chair, We hosted a visiting group from Regina General Hospital NICU Team as part of the national EPIQ (Evidence-Based Practice for Improving Quality) project.
- 2018 - 2018 Site visit, Chair, We hosted a visiting group from Royal Alexandra Hospital NICU Team (Edmonton) as part of the national EPIQ (Evidence-Based Practice for Improving Quality) project.
- 2013 - 2013 Meeting, Member or participant, Canadian Neonatal Transport Network 1st meeting in Toronto.

vi. Previous Administrative Responsibilities – University of Manitoba, Winnipeg, MB:

- 2011 - 2012 Chief Neonatal Fellow, some of my responsibilities included:
- 2012 - 2013 Member, Perinatal Mortality Committee at Winnipeg HSC.
- 2010 - 2011 Member, Perinatal Morbidity Committee at Winnipeg HSC.
- 2011 - 2012 Member, Neonatal Patient Care Committee: Updated Practice Guidelines: Neonatal Substance Exposure: Assessment and Management of the Infant.
- 2011 - 2012 Member, Neonatal-Perinatal Medicine Subspecialty Committee.
- 2010 - 2012 Member, St. Boniface Hospital Baby-Friendly Initiative Committee.

vii. Previous Administrative Responsibilities – King Abdulaziz National Guard Hospital, Saudi Arabia:

- 2006 - 2008 Chief house staff (including assistant consultants, staff physicians, and residents).
- 2006 - 2008 Member, Departmental Quality Improvement committee:
- 2009 - 2010 Member, Departmental Morbidity Committee.
- 2004 - 2010 Departmental Policies and Procedures, and Clinical Guidelines:

VII. PROFESSIONAL ACTIVITIES:

i. Membership in professional and learned societies:

2021 - Present	Associate Member, College of Reviewers, Canadian Institutes of Health Research
2011 - Present	Member, Canadian Paediatric Society
2011 - Present	Member, Digital Health Canada (Previously Canada's Health Informatics Association - COACH)
2012 - Present	Member, Canada Health Infoway
2012 - Present	Member, Canadian Neonatal Network
2013 - Present	Member, Alberta Medical Association
2013 - Present	Member, Canadian Medical Association
2010 - Present	Member, Canadian Medical Protective Association
2011 - 2016	Member, The Society for Simulation in Healthcare
2014 - 2015	Member, IEEE - Institute of Electrical and Electronics Engineers
2014 - 2018	Member, Canadian Thoracic Society

ii. Professional service:

Abstracts

2022 - 2022	Scientific reviewer, the Canadian Pediatric Society Annual Conference
2020 - 2020	Scientific reviewer, the Pediatric Academic Societies Meeting 2020
2017 - 2017	Scientific reviewer, the 2018 Canadian National Perinatal Research Meeting.
2017 - 2017	Scientific reviewer, the Pediatric Academic Societies Meeting 2017.
2015 - 2016	Scientific reviewer, the 2016 Canadian National Perinatal Research Meeting.

Journal reviews

2020 - 2020	Reviewed a manuscript titled "PheWAS 1 Analysis of Perinatal Exposures Associates Polyhydramnios with Bronchopulmonary Dysplasia in Preterm Infants"
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2019 - 2019	Reviewed a manuscript titled "Seeing is believing: an information visualization approach to prioritizing hospitalized patients"
2018 - 2018	Reviewed a manuscript titled "A Multi-Interventional Nutrition Program for Newborns with Congenital Heart Disease"
2017 - 2017	Reviewed a manuscript titled "Goodbye X-Rays: neonatal lung ultrasound to manage neonatal RDS"
2017 - 2017	Reviewed a manuscript titled "Reducing Intensive Care Transfers for Neonates at risk for Hypoglycemia"
2017 - 2017	Reviewed a manuscript titled "A Quality Improvement Initiative to Reduce NICU Transfers for Neonates at risk for Hypoglycemia"
2015 - 2015	Reviewed a manuscript for Early Human Development journal titled "Pulse oximetry performance in mechanically ventilated newborn infants"
<i>Other</i>	
2020 - 2020	Judge, Trainee Oral Presentations, Canadian National Perinatal Research Meeting 2020
2020 - 2020	Judge, Poster Sessions, Canadian National Perinatal Research Meeting 2020
2018 - 2018	Judge, Poster Sessions, Canadian National Perinatal Research Meeting 2018

VIII. RESEARCH SUPPORT:

i. Peer-reviewed funded research:

2021-2025	Canadian Institutes of Health Research, Project Grant, Alberta (AB) Collaborative Quality Improvement Strategies to Improve Outcomes of Preterm Infants 32 - 36 Weeks' Gestation: A Stepped-Wedge Cluster Randomized Trial (ABC-QI Trial), \$765,000, New, Nominated Principal Applicant (Link)
2020-2022	Department of Pediatrics 2019 Innovation Award, Virtual Subspecialty Consultations to Calgary NICUs, \$24,648.33, New, Principal Investigator
2020-2021	Canadian Institutes of Health Research. Canadian Surveillance of COVID-19 in Pregnancy: Epidemiology, Maternal and Infant Outcomes, \$825,367, New, collaborator
2020-2025	Calgary Health Foundation. Prediction, Prevention and Interventions for Preterm birth (The P3 Cohort), \$5,000,000, New, co-investigator

- 2020 - 2024 Canadian Institutes of Health Research. Project Grant, Relative effectiveness and safety of pharmacotherapeutic agents for treatment of patent ductus arteriosus (PDA) in preterm infants: A National Comparative Effectiveness Research (CER) Project, \$313,652, New, Co-Applicant ([Link](#))
- 2019 - 2020 Conference Grant for the Canadian National Perinatal Research Meeting 2020, Banff, Alberta, Canada, \$2300.00, local principal investigator
- 2019 - 2020 Alberta Children's Hospital Research Institute, Can Pulmonary Function Measurements Predict CPAP Failure n Preterm Infants, \$4950.00, New, co-investigator
- 2018 - 2021 Canadian Institutes of Health Research, Optimizing Resource Allocation in the NICU to Improve Outcomes of Very Preterm Infants, \$105000.00, Ongoing / Renewed, co-investigator ([Link](#))
- 2018 - 2021 Canadian Institutes of Health Research, Canadian Preterm Birth Network, \$4,250,000.00, New, local principal investigator
- 2016 - 2017 Section of Neonatology Equipment Grant, Respiratory and Cardiovascular Function Parameters in Infants Receiving Respiratory Support during Placental Transfusion, \$10000.00, New, principal investigator
- 2014 - 2017 Section of Neonatology Equipment Grant, Initiation of resuscitative care while on placental circulation for up to 90 seconds for infants of 26 to 36 6/7 weeks of gestation – a feasibility study, \$10000.00, Ongoing / Renewed, co-investigator
- 2008 - 2019 Canadian Institutes of Health Research, Evidence-based Practice for Improving Quality Phase 3 - Drive for Zero. CIHR Team in Maternal Infant Care (MiCare). Subgrant Agreement CIHR CTP-87518, \$172323.00, Ongoing / Renewed, local principal investigator
- 2012 - 2014 Canadian Pediatric Society, Laryngeal Mask Airway (LMA) to provide Positive Pressure Ventilation with chest compressions in Neonatal piglet resuscitation model, \$14074.00, Ongoing / Renewed, principal investigator
- 2011 - 2012 Manitoba Institute of Child Health, Laryngeal Mask Airway to Provide Positive Pressure Ventilation with Chest Compressions in Neonatal Resuscitation High Fidelity Simulation Model: A Randomized Cross-over Trial, \$5000, completed, principal investigator
- 2014 - 2017 Canadian Institutes of Health Research, Canadian Neonatal Transport Network (CNTN) - Improving quality of care during transport of sick neonates: a national

collaborative partnership for outcome improvement and system enhancement, \$524643.00, Ongoing / Renewed, local sub-investigator

2016 - 2019 National Institutes of Health Research (NIH US), VentFirst: A Multicenter RCT of assisted ventilation prior to umbilical cord clamping for extremely preterm infants to decrease risk of intraventricular hemorrhage, \$101821.00, New, local sub-investigator

ii. Unfunded research:

2021 - present The Burden of Moderate and Late Preterm Infants in Canadian Tertiary Neonatal Intensive Care Units: A Multicentre Retrospective Cohort Study

2018 - present Improving the Safety of Intubation in Pediatric Patients - National Registry of Emergency Airway (NEAR4NEOs), local principal investigator

2018 - 2019 Barriers and facilitators to the Tele-Neonatology Program in Southern Alberta, principal investigator

2017 - 2018 Southern Alberta Tele-Neonatology Project: A Retrospective Evaluation, principal investigator

2016 - 2017 Bronchopulmonary Dysplasia among Preterm Infants Managed with Primary Nasal Continuous Positive Airway Pressure, principal investigator

2016 - 2017 The Impact of Timing of Umbilical Cord Clamping on Cord Blood Gas Results, principal investigator

2018 - present Canadian Neonatal Network, \$0.00, local principal investigator

2017 - 2018 Variations in the use of laboratory and diagnostic imaging tests in preterm infant < 29 weeks GA in the first 2 weeks after birth in Canada, local principal investigator

2019 - 2021 Targeted neurological examination training for medical students using virtual reality, co-investigator

2018 - 2019 Are the needs of Moderate and Late Preterm Infants better served in level II Neonatal Intensive Care Units?, co-investigator

2018 - 2019 The impact of educational outreach program on clinical care and short term outcomes in neonates with Hypoxic Ischemic Encephalopathy born outside the tertiary centers, co-investigator

2018 - 2019 Evaluation of the WINROP Screening program in Calgary Population and comparison to the GROU algorithm, co-investigator

- 2018 - 2019 Renal adaptation in Respiratory Distress Syndrome (RDS) compared to Transient Tachypnea of the Newborn (TTN), co-investigator
- 2017 - 2018 Association of deferred cord clamping and neonatal outcomes in preterm infants born <29 weeks gestational age, co-investigator
- 2017 - 2018 Glucose Gel to Increase the Rate of Exclusive Breastfeeding in Hypoglycemic Newborns, co-investigator
- 2016 - 2018 The impact of Arterial Pressure of Carbon Dioxide (PaCO₂) during the first 72 hours of life in extreme preterm neonates on risk of developing intraventricular hemorrhage, co-investigator

iii. Industry-sponsored research:

- 2017 - 2017 A Multinational, Multicenter, Masked, Randomized, Controlled Study to Assess the Safety and Efficacy of Lucinactant for Inhalation in Preterm Neonates 26 to 32 Weeks Gestational Age with Respiratory Distress Syndrome, \$12,995.82, local principal investigator
- 2016 - 2017 A Multicenter, Randomized, Open-Label, Controlled Trial to Assess the Safety and Tolerability of Lucinactant for Inhalation in Preterm Neonates 26 to 28 Weeks PMA, \$33,354.96, local principal investigator
- 2015 - 2016 Prospective Observational Study of Respiratory Support Provided to Premature Infants at Risk for Respiratory Distress Syndrome, \$29,430, local principal investigator

IX. INVITED ADDRESSES/PRESENTATIONS:

- 2022/05/20 Ventilation Strategies: When Less is Actually More. Presented in Neonatal Educational Round, Calgary, AB. Supervised and co-presented with Kelsey Groenenboom (Nurse Practitioner), and Heather Whitney (Respiratory Therapist).
- 2022/03/30 Tiny Bodies, Big Expectations! Myths, Facts, and the Future. Pediatric Grand Round, Calgary, AB. Co-Presented with Dr. Amina Benlamri
- 2022/02/16 ABC-QI Trial - Alberta (AB) Collaborative QI Strategies to Improve Outcomes of Preterm Infants 32 – 36 Weeks' Gestation: A Stepped-Wedge Cluster Randomized Trial. EPIQ Virtual Conference

- 2022/02/01 How Do Our Smallest Babies Do? Presented at Neonatal Grand Round, Calgary, AB. Supervised and co-presented with Claire Hamilton, QI Nurse, FMC.
- 2021/01/26 How to make sense of Quality Improvement Data. Presented virtually in QI Leadership Team Meeting, Halifax, NS, Canada, education, invited speaker
- 2021/01/19 An Overview of the CNN Annual Report 2019: Outcomes of Infants < 33 Weeks' Gestation. Presented at Neonatal Grand Rounds, Calgary, AB, education, invited speaker
- 2020/10/27 Making Sense of Quality Improvement Data. Neonatal Neuro-Critical Care Lecture Series, Calgary, AB, Canada, education, invited speaker
- 2020/09/25 Neonatal Journal Club – Topic: Preterm neonates benefit from low prophylactic platelet transfusion threshold despite varying risk of bleeding or death, speaker
- 2020/07/15 Introduction to Quality Improvement and Benchmarking. Neonatal-Perinatal Arab Board Fellowship Program, AQHWC, Sharjah, UAE, education, invited speaker.
- 2020/06/19 Pre-intubation oxygenation level and intubation outcomes in neonates. Conference: Pediatric Academic Societies Annual Meeting 2020, Philadelphia, Pennsylvania, USA, research, international, speaker (Presented in the PAS Neonatology Summer Webinar Series [Neo-Perinatal Care Delivery: Practices and Procedures Webinar](#))
- 2020/05/19 The Extubation Challenge: Are We Hesitant to Take It? Presented at Neonatal Grand Rounds, Calgary, AB, education, invited speaker
- 2020/03/07 The EPIQ (Evidence-Based Practice for Improving Quality) Journey, Antepartum Spring Retreat, Calgary, AB, education, invited speaker
- 2020/01/14 A Review of the Canadian Neonatal Network 2018 Report. Presented at Neonatal Grand Rounds, Calgary, AB., education, regional, invited speaker.
- 2019/08/16 Airway Management at FMC: NEAR4NEOS Experience. Summer QI Rounds, education, departmental, speaker
- 2019/06/28 Challenges and Management of Late Preterm Infants. Presented as part of the Neonatal Intensive Care Course to Health Care Providers in Northern Syria via WebEx., global health initiative, international, invited speaker
- 2019/06/11 Southern Alberta Virtual NICU Program: Improving Access to Care. Presented as part of Child Health Research Round series, research, departmental, invited speaker

- 2019/03/29 Neonatal Journal Club - Topic: "PDA-Tolerate Trial", education, departmental, speaker
- 2019/02/27 Southern Alberta Virtual NICU Program. Presented to Maternal, Newborn, Child, and Youth Strategic Clinical Network Core Committee Meeting, administration, hospital/health authority, invited speaker
- 2019/01/26 Calgary Neonatal Outcomes. Presented in the Antepartum Retreat "Timing of Delivery", education, invited speaker
- 2019/01/08 An Overview of the CNN Annual Report and Quality Improvement Update. Presented at Neonatal Grand Rounds, Calgary, AB., education, regional, invited speaker
- 2018/06/07 The Golden Hour in Level II NICUs, NICU Education Day, Peter Lougheed Centre, Calgary, AB, education, regional, invited speaker
- 2017/06/23 Neonatal Journal Club - Topic: "Docosahexaenoic Acid and Bronchopulmonary Dysplasia in Preterm Infants", education, departmental, speaker
- 2017/01/30 The Golden Hour Approach, Neonatal Transport Conference - Red Deer, Alberta, education, regional, invited speaker
- 2016/06/15 Southern Alberta Tele-Neonatology Project - Canmore, administration, regional, speaker
- 2016/04/29 Southern Alberta Tele-Neonatology Project - Medicine Hat, administration, regional, speaker
- 2016/02/11 2016 Canadian National Perinatal Research Meeting Session C1: Neonatal Resuscitation: Teamwork and Transition, research, national, panel moderator
- 2015/11/24 Neonatology Grand Round: Delivery Room Management: Where do we stand from ILCOR recommendations?, education, provincial, invited speaker
- 2015/10/27 Hypoglycemia in Neonates. NICU Education Day, Peter Lougheed Centre, Calgary, AB, education, regional, invited speaker
- 2014/10/16 Laryngeal Mask Airway: Beyond the Difficult Airway. Presented at the 9th Bowman Neonatal Research Symposium- Winnipeg, MB, education, national, invited speaker
- 2014/05/03 Laryngeal Mask Airway or Endotracheal Intubation for Positive Pressure Ventilation with Chest Compressions in Newborn Piglets. Conference: Pediatric

- Academic Societies Annual Meeting 2014, Vancouver, BC., research, international, speaker
- 2014/02/04 Electronic Medical Records in NICU: Maximizing the Benefit, education, departmental, invited speaker
- 2013/06/20 Laryngeal Mask Airway or Endotracheal Intubation for Advanced Newborn Resuscitation: A Randomized Cross-Over Trial in High Fidelity Simulation Model. Canadian Paediatric Society's 90th Annual conference, Edmonton, AB, Canada, research, national, speaker
- 2013/02/14 Laryngeal mask airway (LMA) or endotracheal intubation (EI) for advanced newborn resuscitation: a randomized cross-over trial in a high fidelity simulation model. 21st Western Perinatal Research Meeting, Banff 2013, research, national, speaker
- 2012/09/12 Telehealth in Neonatal Care. Presented at Neonatal Grand Rounds, Calgary, AB., education, regional, invited speaker
- 2012/03/22 Using the Laryngeal Mask in Newborn Resuscitation. Presented at Midwives Educational Day, the Birthing Centre, Winnipeg, MB., professional organization, regional, invited speaker
- 2011/04/20 Neonatal Surgical Emergencies. Presented at Pediatric Academic Half-day, Health Sciences Centre, Winnipeg, MB., education, departmental, invited speaker
- 2011/03/01 Perinatal Management of Congenital Diaphragmatic Hernia. Presented at Perinatal High-Risk Rounds, Health Sciences Centre, Winnipeg, MB., education, regional, invited speaker
- 2010/11/24 Case presentation: a PPHN dilemma. Dr. Bowman Symposium, Winnipeg, MB., education, faculty, invited speaker
- 2009/04/01 Survival and short-term outcomes of very low birth weight infants in Alhsa area and benchmark with the NICHD Neonatal Research Network. The 9th Annual Neonatology Meeting, April 2009, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia., research, national, speaker
- 2007/11/25 Necrotizing Enterocolitis. Presented at Pediatric Academic Half-day, Al-Ahsa, Saudi Arabia., education, departmental, speaker

X. PUBLICATIONS:

i. Peer reviewed manuscripts:

1. **Abou Mehrem A**, Toye J, Aziz K, Benzies K, Alshaikh B, Johnson D, Faris P, Soraisham A, McNeil D, Al Hamarneh Y, Foss K, Foulston C, Johns C, Zimmermann G, Zein H, Hendson L, Isaranuwachai W, Kumaran K, Price D, Singhal N, Shah P. Alberta (AB) Collaborative Quality Improvement Strategies to Improve Outcomes of Preterm Infants 32 – 36 Weeks' Gestation: A Protocol for a Multi-centre, Stepped-Wedge Cluster Randomized Trial (The ABC-QI Trial). Under review.
2. Vayalumkal J, Soraisham A, **Abou Mehrem A**, Ghosh A, Dunn J, Fonseca K, Zhou H, Berenger B, Brundler MA, Chan E, Lin YC, Evans D, Rouso S, Conley J. Congenital SARS-CoV-2 Infection Confirmed by Viral Culture from the Placenta. Under review.
3. Chan E, **Abou Mehrem A**, de Koning L, Stritzke A, Zhou H. Extrahepatic Biliary Atresia in a Premature Neonate with Congenital Cytomegalovirus Infection. Accepted in Pathology
4. Moussa A, Sawyer T, Puia-Dumitrescu M, Foglia EE, Ades A, Napolitano N, Glass KM, Johnston L, Jung P, Singh N, Quek BH, Barry J, Zenge J, DeMeo S, **Abou Mehrem A**, Nadkarni V, Nishisaki A for NEAR4NEOS investigators. Does video laryngoscopy improve tracheal intubation first attempt success in the NICUs? A report from the NEAR4NEOS. *Journal of perinatology : official journal of the California Perinatal Association*. 2022;42:1210-5. PMID: 35922664.
5. Singh N, Sawyer T, Johnston L, Herrick H, Moussa A, Zenge J, Jung P, DeMeo S, Glass KM, Howlett A, Shults J, Barry J, Brei B, Kim JH, Quek BH, Tingay D, **Abou Mehrem A**, Napolitano N, Nishisaki A, Foglia EE, for NEAR4NEOS investigators. Impact of multiple intubation attempts on adverse tracheal intubation associated events in neonates: a report from the NEAR4NEOS. *Journal of perinatology : official journal of the California Perinatal Association*. 2022;42:1221-7. PMID: 35982243.
6. Benlamri A, Murthy P, Zein H, Thomas S, Scott JN, **Abou Mehrem A**, Esser MJ, Lodha A, Noort J, Tang S, Metcalfe C, Kowal D, Irvine L, Scotland J, Leijser LM, Mohammad K. Neuroprotection care bundle implementation is associated with improved long-term neurodevelopmental outcomes in extremely premature infants. *J Perinatol*. 2022 Jul 13. PMID: 35831577.
7. Blagdon A, Smith D, Bramfield T, Soraisham A, **Abou Mehrem A**. Evaluation of family and staff experiences with virtual rounding and bedside presence in a tertiary neonatal intensive care unit during the COVID-19 pandemic. *J Telemed Telecare*. 2022 Mar 29. PMID: 35350925
8. Mohammad K, Momin S, Murthy P, Zein H, Scott JN, **Abou Mehrem A**, Ghosh A, Javadyan A, Awad EA, Venkata SKRG, Paul R, Rombough B, Bolderheij L, Dossani S, Montpetit J, Eshemokhai P, Fiedrich E, Thomas S. Impact of quality improvement outreach education on the incidence of acute brain injury in transported neonates born premature. *J Perinatol*. 2022 May 4. PMID: 35508716.
9. Read B, Ethier G, **Abou Mehrem A**, Dunn M, Mukerji A. Prevention of bronchopulmonary dysplasia: a cross-sectional survey of clinical practices in Canada. *J Perinatol*. 2022 Apr 23. PMID: 35461331.
10. Stritzke A, Tierney A, Keister F, Srivastava A, Dersch-Mills D, Hamilton C, Lodha A, **Abou Mehrem A**. Antimicrobial Stewardship at Birth in Preterm Infants: Not Just About a Decrease! *Pediatr Infect Dis J*. 2022 May 1. 2022. PMID: 35067640.
11. Alshaikh B, Yusuf K, Dressler-Mund D, **Abou Mehrem A**, Augustine S, Bodani J, Yoon E, Shah P. Rates and Determinants of Home Nasogastric Tube Feeding in Infants Born Very Preterm. *J Pediatr*. 2022 Mar 14. PMID: 35301017.
12. Ismail R, Murthy P, **Abou Mehrem A**, Liang Z, Stritzke A. Fluid handling and blood flow patterns in neonatal respiratory distress syndrome versus transient tachypnea: a pilot study. *BMC Pediatr*. 2021;21(1):541. PMID: 34861840.



13. Ting JY, Roberts A, **Abou Mehrem A**, Khurshid F, Drolet C, Monterrosa L, et al. Variability in antimicrobial use among infants born at <33 weeks gestational age. *Infection control and hospital epidemiology*. 2021;1-5. PMID: 34530949.
14. **Abou Mehrem A**, Blagdon A, Hoffman J, Dossani S, Anderson C, Spence T, Gilad E. Telemedicine-guided thoracentesis of tension pneumothorax in a term newborn. *J Telemed Telecare*. 2021;1357633x211034316. PMID: 34310235.
15. Gray MM, Rumpel JA, Brei BK, Krick JA, Sawyer T, Glass K, DeMeo S, Barry J, Ades A, Napolitano N, Johnston L, Moussa A, Jung P, Quek BH, **Abou Mehrem A**, Zenge J, Shults J, Nadkarni V, Kim J, Singh N, Tisnic A, Foglia E, Nishisaki A. Associations of Stylet Use during Neonatal Intubation with Intubation Success, Adverse Events, and Severe Desaturation: A Report from NEAR4NEOS. *Neonatology*. 2021;118(4):470-478. PubMed PMID: 33946064.
16. Roychoudhury S, Lodha A, Synnes A, **Abou Mehrem A**, Canning R, Banihani R, et al. Neurodevelopmental outcomes of preterm infants conceived by assisted reproductive technology. *Am J Obstet Gynecol*. 2021 Sep;225(3):276.e1-276.e9. PMID: 33798481.
17. Evans P, Shults J, Weinberg DD, Napolitano N, Ades A, Johnston L, Levit O, Brei B, Krick J, Sawyer T, Glass K, Wile M, Hollenberg J, Rumpel J, Moussa A, Verreault A, **Abou Mehrem A**, Howlett A, McKanna J, Nishisaki A, Foglia EE. Intubation Competence During Neonatal Fellowship Training. *Pediatrics*. 2021 Jul;148(1). PMID: 34172556.
18. Mitra S, Jain A, Ting JY, Ben Fadel N, Drolet C, **Abou Mehrem A**, et al. Relative effectiveness and safety of pharmacotherapeutic agents for patent ductus arteriosus (PDA) in preterm infants: a protocol for a multicentre comparative effectiveness study (CANRxPDA). *BMJ Open*. 2021 May 5;11(5):e050682. PubMed PMID: 33952559.
19. Hussain A, Baier RJ, **Abou Mehrem A**, Soylyu H, Fraser D, Elsayed Y. Central Diabetes Insipidus in a Preterm Neonate Unresponsive to Intranasal Desmopressin. *Neonatal Netw*. 2020 Nov 1;39(6):339-346. PMID: 33318230.
20. Mohammad K, Dharel D, **Abou Mehrem A**, Esser MJ, Paul R, Zein H, et al. Impact of outreach education program on outcomes of neonates with hypoxic ischemic encephalopathy. *Paediatr Child Health*. 2021 Aug;26(5):e215-e221. PMID: 34938377.
21. Murthy P, Zein H, Thomas S, Scott J, **Abou Mehrem A**, Lodha A, Metcalfe C, Kowal D, Irvine L, Scotland J, Leijser L, Mohammad K. Neuroprotection bundle implementation to decrease acute brain injury in preterm infants. *Pediatr Neurol*. 2020 Sep;110:42-48. PMID: 32473764.
22. Goswami IR, **Abou Mehrem A**, Scott J, Esser MJ, Mohammad K. Metabolic acidosis rather than hypo/hypercapnia in the first 72 hours of life associated with intraventricular hemorrhage in preterm neonates. *J Matern Fetal Neonatal Med*. 2021 Dec;34(23):3874-3882. PMID: 31852289.
23. Lodha A, Shah PS, Soraisham AS, Rabi Y, **Abou Mehrem A**, Singhal N, Canadian Neonatal Network Investigators., Association of Deferred vs Immediate Cord Clamping With Severe Neurological Injury and Survival in Extremely Low-Gestational-Age Neonates. *JAMA Netw Open*. 2019 Mar 1;2(3):e191286. PubMed PMID: 30924898.
24. Iwami H, Isayama T, Lodha A, Canning R, **Abou Mehrem A**, Lee SK, Synnes A, Shah PS, Canadian Neonatal Network and Canadian Neonatal Follow-Up Network Investigators., Outcomes after Neonatal Seizures in Infants Less Than 29 Weeks' Gestation: A Population-Based Cohort Study. *Am J Perinatol*. 2019 Jan;36(2):191-199. PubMed PMID: 30016820.
25. Ethawi YH, **Abou Mehrem A**, Minski J, Ruth CA, Davis PG. High frequency jet ventilation versus high frequency oscillatory ventilation for pulmonary dysfunction in preterm infants., *Cochrane Database Syst Rev*. 2016 May 08(5):CD010548. PMID: 27149997.



26. Al-Abdi S, **Abou Mehrem A**, Dabelah K, Al-Aghbari M, Al-Aamri M, The effect of low to moderate patient volume on very low-birth-weight outcomes in a level III-B neonatal intensive care unit., *Am J Perinatol.* 2011 Mar 03;28(3):219-26. PMID: 20979014.
27. Al-Abdi SY, Mousa TA, Al-Aamri MA, Ul-Rahman NG, **Abou Mehrem AI**, Hyperbilirubinemia in glucose-6-phosphate dehydrogenase-deficient male newborns in Al-Ahsa, Saudi Arabia., *Saudi Med J.* 2010 Feb 03;31(2):175-9. PMID: 20174734.

ii. **Abstracts - published peer reviewed:**

1. Peebles P, Jensen E, Herrick H, Wildenhain P, Rumpel J, Moussa A, Singh N, **Abou Mehrem A**, Quek BH, Wagner M, Glass K, Tingay D, Sawyer T, Brei B, Jung P, Unrau J, Kim J, Barry J, DeMeo S, Johnston L, Nishisaki A, Foglia EE, for NEAR4NEOS investigators. Identifying Optimal Endotracheal Tube Size for Neonatal Intubation in the International NEAR4NEOS Database. *Pediatric Academic Societies Meeting 2022. Poster Presentation.*
2. Vayalumkal J, Pillai D, Oberding L, Ward L, Fonseca K, **Abou Mehrem A**, Conly J. Determination of SARS-CoV-2 Contamination in a Neonatal Intensive Care Unit (NICU) Environment Using Droplet Digital PCR (ddPCR), *International Journal of Infectious Diseases*, Volume 116, Supplement, 2022, Page S52.
3. Vayalumkal J, Soraisham A, **Abou Mehrem A**, Dunn J, Fonseca K, Berenger B, Brundler M, Chan E, Lin J, Evans D, Conly J. Congenital SARS-CoV-2 infection in a pre-term neonate with viable virus from the placenta. *Association of Medical Microbiology and Infectious Disease Canada Annual Conference 2021. E-Poster presentation.*
4. Singh N, Sawyer T, Johnston L, Herrick H, Moussa A, Zenge J, Jung P, DeMeo S, Glass K, Howlett A, Shults J, Barry J, Brei B, Kim J, Quek B, Tingay D, **Abou Mehrem A**, Napolitano N, Nishisaki A, Foglia E. Impact of multiple attempts on adverse tracheal intubation associated events in neonates: A report from the NEAR4NEOS database. *Pediatric Academic Societies Virtual Meeting 2021. Platform presentation.*
5. Hamid F, Beltempo M, Alshaikh B, Hasan S, Rustogi D, **Abou Mehrem A**, Ng E, Kanungo J, Yusuf K. Effect of blood transfusion on outcomes of singleton preterm infants < 29 weeks gestation born small for gestation and appropriate for gestational age. *Pediatric Academic Societies Virtual Meeting 2021. E-poster presentation*
6. **Abou Mehrem A**, Howlett A, Ades A, McKanna J, Kowal D, Nishisaki A, Foglia E, for the NEAR4NEOS Registry. Pre-intubation oxygenation level and intubation outcomes in neonates. *Pediatric Academic Societies Meeting 2020. Platform presentation. Publication Number: 4355.3. 2020 May 05 (Conference was cancelled due to COVID-19 Pandemic)*
7. Mesmeh M, Muftah A, Thomas SP, Soraisham A, Alshaikh B, **Abou Mehrem A**. Peripheral intravenous catheter is associated with reduced use of umbilical venous and arterial catheters in infants born at 26-29 weeks' gestation. *Pediatric Academic Societies Meeting 2020. Poster presentation. Publication Number: 1434.586. 2020 May 02 (Conference was cancelled due to COVID-19 Pandemic)*
8. Roychoudhury S, **Abou Mehrem A**, Soraisham A, Lodha A, Synnes A, Beltempo A, Shah P, Banihani R, Yang J, Canning R. Neurodevelopmental Outcomes of Preterm Infants (<29 weeks Gestational Age) Conceived by Assisted Reproductive Technology. *Pediatric Academic Societies Meeting 2020. Oral Poster Symposia. Publication Number: 2270.10. 2020 May 03 (Conference was cancelled due to COVID-19 Pandemic)*
9. Alshaikh B, Alburaki W, **Abou Mehrem A**, Roy MA, Wood C. Prevention of Necrotizing Enterocolitis (NEC) in Very Preterm Infants: NEC-Free NICU Quality Improvement Initiative.



- Pediatric Academic Societies Meeting 2020. Platform presentation. Publication Number: 1590.4. 2020 May 02 (Conference was cancelled due to COVID-19 Pandemic)
10. Sawyer T, Krick J, Puia-Dumitrescu M, Brei BK, Gray MM, Foglia E, Ades A, Moussa A, Napolitano N, Glass K, Johnston L, Jung P, Singh N, Quek B, Barry JS, Zenge J, DeMeo SD, Kim JH, Tisnic A, **Abou Mehrem A**, Rumpel J, Shults J, Nadkarni V, Nishisaki A. Association between atropine use and bradycardia or cardiac arrest during neonatal intubation: A report from the National Emergency Airway Registry for Neonates (NEAR4NEOS). Pediatric Academic Societies Meeting 2020. Platform presentation. Publication Number: 1170.8. 2020 May 02 (Conference was cancelled due to COVID-19 Pandemic)
 11. Moussa A, Sawyer T, Gray MM, Brei BK, Krick J, Puia-Dumitrescu M, Foglia E, Ades A, Napolitano N, Glass K, Johnston L, Jung P, Singh N, Barry JS, Zenge J, DeMeo SD, Kim JH, Tisnic A, **Abou Mehrem A**, Rumpel J, Shults J, Nadkarni V, Nishisaki A, Quek B. Does video laryngoscopy improve tracheal intubation first attempt success in NICUs? A Report from the NEAR4NEOS. Pediatric Academic Societies Meeting 2020. Platform presentation. Publication Number: 4355.4. 2020 May 05 (Conference was cancelled due to COVID-19 Pandemic)
 12. Evans P, Weinberg D, Napolitano N, Ades A, Glass K, Brei BK, Krick J, Moussa A, Verreault A, Hollenberg J, Rumpel J, **Abou Mehrem A**, Howlett A, McKanna J, Johnston L, Levit OL, Shults J, Nishisaki A, Foglia E. Establishing Intubation Competency During Neonatal Fellowship Training. Pediatric Academic Societies Meeting 2020. Poster presentation. Publication Number: 1422.359. 2020 May 02 (Conference was cancelled due to COVID-19 Pandemic)
 13. Gray MM, Brei BK, Krick J, Sawyer T, Foglia E, Glass K, DeMeo SD, Barry JS, Kim JH, Ades A, Napolitano N, Johnston L, Moussa A, Jung P, Singh N, Quek B, **Abou Mehrem A**, Tisnic A, Zenge J, Rumpel J, Shults J, Nadkarni V, Nishisaki A. Endotracheal Tube Stylet Effect on Intubation Success: A report from the NEAR4Neos Database. Pediatric Academic Societies Meeting 2020. Poster presentation. Publication Number: 4140.714. 2020 May 05 (Conference was cancelled due to COVID-19 Pandemic)
 14. Muftah A, Taylor JP, Hamilton C, Germain C, **Abou Mehrem A**. Peripheral intravenous catheter during stabilization of infants born at 26-31 weeks' gestation. The 7th Canadian National Perinatal Research Meeting, Banff, Alberta, Canada. 2020 Feb 12-15 (accepted).
 15. Keister F, Stritzke A, Tierney A, Hamilton C, Dersch-Mills D, Srivastava A, Lodha A, **Abou Mehrem A**. Antimicrobial Stewardship Program for Early Onset Sepsis: The Unintended Effect. 2019 ACHRI Summer Students Research Day. 2019 Aug 23.
 16. Florendo-Chin AL, Wilkinson K, Paul R, Chaput K, Thomas S, **Abou Mehrem A**. Tele-Neonatology Program: What's affecting our implementation and use in Southern Alberta? The 6th Canadian National Perinatal Research Meeting, Mont-Tremblant, Québec, Canada. 2019 Feb 13.
 17. **Abou Mehrem A**, Singhal N, Shah P, Shah V, for the Less is More Study Group. Diagnostic Imaging in the First 14 Days among Canadian Preterm Infants <29 Weeks' Gestation: Is Variation Justified? Pediatric Academic Societies Meeting 2018. Publication Number: 4141.396. 2018 May 08.
 18. Samara J, Paul R, **Abou Mehrem A**, Thomas S, Improving mobilisation decision process using a call handling algorithm. , Third Edition Transport of High Risk Infants. Oxford, UK . 2017 Aug 31.
 19. Samedi V, Irvine L, Kowal D, Thomas S, Rabi Y, Stritzke A, Singhal N, **Abou Mehrem A**, Delayed cord clamping is not associated with lower umbilical cord pH in preterm infants 26-32 weeks gestation., American Academy of Pediatrics District VIII Section on Neonatal-Perinatal Medicine Conference. 2017 Jun 23.



20. Samara J, **Abou Mehrem A**, Yee W, Nuwaise C, Lodha A, Shah P, Bronchopulmonary Dysplasia among Preterm Infants Managed with Primary Nasal Continuous Positive Airway pressure. Pediatric Academic Societies Meeting. 2017 May 05.
21. Iwami H, Isayama T, Lodha A, Synnes A, **Abou Mehrem A**, Lee S, Shah P, The Neurodevelopment Outcomes Following Neonatal Seizures in Very Preterm Infants: A Population-Based Cohort Study, Pediatric Academic Societies Meeting 2016. 2016 May 02.
22. Irvine L, **Abou Mehrem A**, Kowal D, Soraisham A, Cooper S, Stritzke A, Murthy P, Singhal N, Thomas S, Integrated Neonatal Support on Placental Circulation with Resuscitation (iNSPiRe): A Feasibility Study, Pediatric Academic Societies Meeting 2016. 2016 May 01.
23. **Abou Mehrem A**, Schmolzer G, Narvey M, Strueby L, Dove W, McCrate D, Lodha A, Cheung P-Y, Temperature Control and Oxygen Use during Neonatal Resuscitation: A Multicenter Quality Assurance Audit, Pediatric Academic Societies Meeting 2016. 2016 Apr 30.
24. Irvine L, **Abou Mehrem A**, Thomas S, Cooper S, Singhal N, Successful Implementation of a Change in Practice to Optimize Timing of Umbilical Cord Clamping in Preterm Neonate: A Quality Improvement Initiative, Pediatric Academic Societies Meeting 2016. 2016 Apr 30.
25. **Abou Mehrem A**, Graham R, Srinivasan G, Heese R, Dakshinamurti S., Laryngeal Mask Airway versus Endotracheal Intubation for Positive Pressure Ventilation with Chest Compressions in Neonatal Porcine Model., Canadian Paediatric Society . 2014 Jun 25.
26. **Abou Mehrem A**, Graham R, Srinivasan G, Heese R, Dakshinamurti S, Laryngeal Mask Airway (LMA) or Endotracheal Intubation (EI) for Positive Pressure Ventilation (PPV) With Chest Compressions in Newborn Piglets., Pediatric Academic Societies Meeting. Vancouver. 2014 May 03.
27. Lodha A, Soraisham A, Rabi Y, **Abou Mehrem A**, Shah P, Singhal N, Delayed Cord Clamping and Neonatal Outcomes among Preterm Infants Born? 28 Weeks of Gestational Age. , Pediatric Academic Societies Meeting, Vancouver. 2014 May 03.
28. **Abou Mehrem A**, Graham R, Srinivasan G, Heese R, Dakshinamurti S., Laryngeal Mask Airway (LMA) or Endotracheal Intubation (EI) for Positive Pressure Ventilation (PPV) With Chest Compressions in Newborn Piglets, Pediatric Academic Societies Annual Meeting. 2014 May 01(E-PAS2014:1180.7).
29. Lodha A, Soraisham A, Rabi Y, **Abou Mehrem A**, Shah P, Singhal N, Delayed Cord Clamping and Neonatal Outcomes among Preterm Infants Born? 28 Weeks of Gestational Age. , National Perinatal Research Meeting, Banff 2014. 2014 Feb 13.
30. **Abou Mehrem A**, Heese R, Srinivasan G, Time to confirm effective ventilation in neonatal resuscitation: the human factor. , Paediatric and Child Health; Canadian Paediatric Society 90th Annual Conference. 2013 Jun 01.
31. **Abou Mehrem A**, Heese R, Unger B, Srinivasan G, Laryngeal mask airway (LMA) or endotracheal intubation (EI) for advanced newborn resuscitation: a randomized cross-over trial in a high fidelity simulation model, Paediatric and Child Health; Canadian Paediatric Society 90th Annual Conference. 2013 Jun 01.
32. **Abou Mehrem A**, Heese R, Srinivasan G, Time to confirm effective ventilation in neonatal resuscitation: the human factor. PAS meeting, Washington DC. 2013 May 04.
33. **Abou Mehrem A**, Heese R, Srinivasan G, Time to confirm effective ventilation in neonatal resuscitation: the human factor.. 2013 Feb 14.
34. **Abou Mehrem A**, Heese R, Unger B, Srinivasan G, Laryngeal mask airway is equivalent to endotracheal intubation during positive pressure ventilation and chest compressions in neonatal resuscitation high fidelity simulation model. . 2012 May 01.



35. Soylyu H, **Abou Mehrem A**, Baier JR, Use of adjunct Clonidine with Phenobarbital Treatment for Opioid/Sedative Withdrawal.. 2012 May 01.
36. **Abou Mehrem A**, Heese R, Unger B, Srinivasan G, Laryngeal mask airway is equivalent to endotracheal intubation during positive pressure ventilation and chest compressions in neonatal resuscitation high fidelity simulation model., Pediatric Academic Societies (PAS) 2012, Boston, MA. 2012 May 01.
37. **Abou Mehrem A**, Cronin CMG, Kirpalani H, Seshia MMK, Extubating Extremely Low Birth Weight Infants (ELBW): How Variable is Our Practice?, Pediatric Academic Societies (PAS) 2012, Boston, MA. 2012 May 01.
38. Soylyu H, **Abou Mehrem A**, Baier JR, Use of adjunct Clonidine with Phenobarbital Treatment for Opioid/Sedative Withdrawal., Pediatric Academic Societies (PAS) 2012, Boston, MA. 2012 May 01.
39. **Abou Mehrem A**, Cronin CMG, Kirpalani H, Seshia MMK, Extubating Extremely Low Birth Weight Infants: How Variable is Our Practice? Western Perinatal Research Meeting, Banff. 2012 Feb 15.
40. Sameer Al-Abdi, Kamal Dabelah, Taher Mousa, Najeeb Ul-Rehman, Ayman **Abou Mehrem**, Maryam Al-Aamri, A Comparison between Prevalence of Direct Antiglobulin Test Positive on Umbilical Cord Blood in Preterm and Term Neonates. , Pediatric Academic Societies (PAS) 2011, Denver, CO. 2011 May 01.
41. Sameer Al-Abdi, Ayman **Abou Mehrem**, Taher Mousa, Najeeb Ul-Rahman, Kamal Dabelah, Maryam Al-Aamri, Predictive Ability of Cord G-6-PD Deficiency Screening for Phototherapy Requirement in Neonatal Hyperbilirubinemia., Pediatric Academic Societies (PAS) 2011, Denver, CO. 2011 May 01.
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