



Montreal Children's Hospital 2025 NICU Research Achievements



To check all the
achievements

Publications

in peer-reviewed journals

68



81

Posters and oral presentations

presented in conferences

Grants and Awards

Our talented team has received multiple awards and grants for their efforts in improving the outcome and wellbeing of our patients and their families.

\$12,786,199
Grants



55

Invited talks

This year, our investigators were invited to participate in various talks at conferences

Want to learn about
NICU research — scan
the QR code!



Research and innovation in the MCH-
NICU is made possible thanks to the
support of the Montreal Children's
Hospital Foundation



A special thank you to the NICU team members, our patients, and their families for helping us improve quality of care by participating in our research

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2025

DEAR COLLEAGUES,

It is with great pleasure that we present to you the Montreal Children's Hospital Neonatal Intensive Care Unit 2025 Research Accomplishments. We are humbled by the productivity and hard work of all our team. Research serves as a catalysis for clinical innovation and improving quality of care and we can safely say that we are moving the needle forward!



In this report you will find the list of publications, presentations, grants, and awards that we have contributed to in the past year. Subjects range from repairing brain injuries, to cardiovascular health of preterm infants, and improving family support.



Creating a successful research environment requires participation and trust from all stakeholders ranging from scientists, research teams, clinical teams, and families — thank you to all of you for making this possible.

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THE 2025 TEAM



Gabriel Altit
Investigator



Marie Brossard-Racine
Investigator



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Investigator



Jarred Garfinkle
Investigator



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ARTICLES PUBLISHED

1. Lapointe A, **Wintermark P**, Rampakakis E, Wutthigat P*, Moore SS*, Simoneau J, **Altit G**. (2025, Dec). Day-2 echocardiography and cardiovascular biomarker measurements in neonates with hypoxic-ischemic encephalopathy with or without brain injury. *J Perinatol*. 45: 1707–1714. <https://doi.org/10.1038/s41372-025-02419-6>.
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ABSTRACTS PUBLISHED

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2. Plessas-Azurduy P*, Hazan Mea J*, Sonea T*, Kanaprach P*, Michel Macías C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, Altit G.** (2025, July). Dexamethasone is associated with Ductal Closure in Extremely Preterm Infants with Evolving Lung Disease [Poster presentation]. NeoHeart 2025: Cardiovascular & Hemodynamic Management of the Neonate, San Diego, CA.
3. Hazan Mea J*, Plessas-Azurduy P*, Sonea T*, Kanaprach P*, Michel Macías C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, Altit G.** Lung ultrasound scores in extremely preterm infants with evolving bronchopulmonary dysplasia: effect of dexamethasone treatment. (2025, Jul). NeoHeart 2025: Cardiovascular & Hemodynamic Management of the Neonate (Poster presentation). San Diego, CA, USA.
4. Plessas-Azurduy P*, Hazan Mea J*, Sonea T*, Kanaprach P*, Michel Macías C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, Altit G.** Dexamethasone is associated with Ductal Closure in Extremely Preterm Infants with Evolving Lung Disease. (2025, May). 2025 Maurice McGregor Cardiovascular Research Day. Research Institute of the McGill University Health Centre (Poster presentation). Montreal, Canada.
5. Plessas-Azurduy P*, Hazan Mea J*, Sonea T*, Kanaprach P*, Michel Macías C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, Altit G.** Dexamethasone is associated with Ductal Closure in Extremely Preterm Infants with Evolving Lung Disease. (2025, May 9). Child Health and Human Development Research Day 2025 of the McGill University Health Centre Research Institute. (Poster presentation). Montreal, Canada.
6. Castro Gomez MJ, Jomhle H, Rampakakis E, **Altit G,** Lapointe A, Gilbert G, Steinhorn R, Haefeli WE, Wintermark P. Longitudinal Changes in Fractional Anisotropy in Neonates with Hypoxic-Ischemic Encephalopathy: Effects of Therapeutic Hypothermia and Sildenafil (May 9, 2025). 10th Annual Child Health and Human Development Research Day (CHHD), Research Institute of the McGill University Health Centre. (Poster presentation). Montreal, QC, Canada.
7. Plessas-Azurduy P*, Hazan Mea J*, Sonea T*, Kanaprach P*, Michel Macías C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, Altit G.** Dexamethasone is associated with Ductal Closure in Extremely Preterm Infants with Evolving Lung Disease. (2025, May). 2025 Developmental Origins of Health and Disease (DOHaD) and CNPRM Canada 8th Annual Scientific Meeting, Montreal, Quebec. [Poster ID 283].
8. Hazan Mea J*, Plessas-Azurduy P*, Sonea T*, Kanaprach P*, Michel Macias C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, & Altit G.** (2025, May). Dexamethasone's Impact on Lung Ultrasound Scores in Extremely Preterm Infants with Evolving Bronchopulmonary Dysplasia [Poster presentation]. 2025 Developmental Origins of Health and Disease (DOHaD) and CNPRM Canada 8th Annual Scientific Meeting, Montreal, Quebec. [Poster ID 28].
9. Alghamdi A*, Kanaprach P*, Moore S*, Michel Macias C*, Wutthigate P*, Simoneau J, Villegas Martinez D, Cavallé-Garrido T, Beauseigle S, Sant'Anna AM, Shapiro A, **Paquette K,** Koclas L, Puligandla P, **Altit G.** (2025, May). Long-Term Cardiac Outcomes in Children with Congenital Diaphragmatic Hernia: A

- Prospective Echocardiographic Study [Poster presentation]. Canadian Paediatric Society's Annual Conference, Quebec City, Canada.
10. Hazan Mea J*, Villegas Martinez D, Mardakis S, Remmer E, Cavallé-Garrido T, **Altit G.** (2025, May). Music and Targeted Neonatal Echocardiography: Insights from Neonatal Healthcare Workers [Poster presentation]. Canadian Pain Society. 45th Annual Scientific Meeting (ASM) Victoria College, on the University of Toronto Campus, Canada. Trainee Travel Award.
 11. Sahussarungsi S*, Wutthigate P*, Simoneau J, Ohayon A*, Villegas Martinez D, Henin C, Cavalle-Garrido T, Dancea A, Mawad W, **Altit G** (2025, April). Feasibility of 4D-echocardiography for RV performance and dimensions in the immediate postnatal neonatal period – a prospective study [Poster presentation]. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii. [Poster 067– Abstract ID 1956752].
 12. Nogara S*, Michel Macias C*, Moore SS*, Hebert A, Nouraeyan N, Drolet C, Lapointe A, Villeneuve A, Bensouda B, Villegas Martinez D, Simoneau J, Cavalle-Garrido T, Dancea A, **Sant'Anna G, Altit G** (2025, April). Left ventricular dimensions at 36 weeks corrected age in extremely preterm newborns: A prospective 4D-echocardiography study [Poster 070]. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii.
 13. Nogara S*, Moore SS*, Villegas Martinez D, Dancea A, Wutthigate P, Simoneau J, Brossard-Racine M, Mawad W, Cavallé-Garido T, Bertolizio G, **Altit G** (2025, April). 4D echocardiographic assessment of newborns with congenital heart disease during the transitional phase – A prospective study [Poster 061]. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii.
 14. Roofigari N*, Magri A*, Kanaprach P8, Michel-Macias C*, Mazzarello M*, Mir M*, Wutthigate P*, Moore SS*, Simoneau J, Villegas Martinez D, Dancea A, Bertolizio G, Cavalle-Garrido T, **Altit, G.** (2025, April). Systemic Doppler velocities in newborns with congenital heart defects – A prospective study [Poster WIP 58]. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii.
 15. Jomleh H, Castro Gomez MJ, Rampakakis E, Lapointe A, **Altit G**, Gilbert G, Steinhorn R, Haefeli WE, **Wintermark P.** (2025, April). Exploring the role of sildenafil in brain metabolite concentrations recovery in neonates with hypoxic-ischemic brain injury during the first month of life. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii. [Poster 555].
 16. Hazan Mea J*, Plessas-Azurduy P*, Sonea T*, Kanaprach P*, Michel Macias C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, Sant'Anna G, & **Altit G.** (2025, April). Effect of Dexamethasone on Lung Ultrasound Scores in Extremely Preterm Infants with Evolving BPD [Poster presentation]. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii. [Poster 355– Abstract ID 1979712].
 17. Madi M, Mardakis S, Mathieu T, Beltempo M, **Altit G, Sant'Anna G, Shalish W** (2025, April). Diagnostic accuracy of the HeRO® monitoring system for detecting sepsis in the neonatal intensive care unit: A single-center experience (2025, April). Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii. [Poster 454– Abstract ID 1977035].
 18. Al Talhi Y*, Nogara S*, Michel Macias C*, Moore SS*, Hebert A, Nouraeyan N, Drolet C, Lapointe A, Villeneuve A, Bensouda B, Villegas Martinez D, Simoneau J, Dancea A, **Sant'Anna G, Cavallé-Garrido T#, Altit G#.** (2025, February). Prevalence of mitral annulus disjunction (MAD) in extremely preterm neonates [Poster presentation]. Pediatric Scientist Development Program (PSDP) Annual Meeting, San Diego, USA.
 19. Hazan Mea J*, Plessas-Azurduy P*, Sonea T*, Kanaprach P*, Michel Macias C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, & Altit G.** (2025, February 14). Evaluating the Impact of Dexamethasone on Lung Ultrasound Scores in Extremely Preterm Infants with Evolving BPD [Oral and Poster presentation]. **SPGH** Research and Public Health Day, Montreal, Canada.
 20. Roofigari N*, **Altit G.** (2025, Nov 13). NIRS Atlas case presentation [Virtual oral webinar presentation]. Newborn Brain Society (NBS) Educational Webinar Series. Invited presentation discussing cerebral and hemodynamic monitoring integration using near-infrared spectroscopy (NIRS) in neonatal care.

21. Fonta Holder A*, Lopez Ibarra C*, Amar S*, Sahussarungsi S*, Plessas-Azurduy P*, Villegas Martinez D, Beaunoyer M, Puligandla P, Raboisson MJ, Cavallé-Garrido T, Lapointe A, **Altit G.** (2025, Aug 12). Développement de modèles d'évaluation du risque fœtal face à un diagnostic de hernie diaphragmatique congénitale utilisant l'échocardiographie [Oral presentation]. Conférence des stagiaires d'été 2025, Centre de recherche Azrieli du CHU Sainte-Justine, Montreal, QC, Canada.
22. Zanette B, Klimes F, Voskrebenezv A, Coblentz A, Shamsi R, Vogel-Claussen J, Greer ML, Abdeen N, Deschenes S, Khumalo Z, Moraes TJ, Mohamed A, **Altit G**, Lu TM, Lands LC, Santyr G, Katz SL. Feasibility of Multi-Site Structural and Functional Pulmonary MRI in Non-Sedated Infants Born Extremely Preterm. International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, Honolulu, HI, USA. May 13, 2025. Abstract #0545.
23. Hazan Mea J*, Plessas-Azurduy P*, Sonea T*, Kanaprach P*, Michel Macias C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, & Altit G.** (2025, May 9). Dexamethasone's Impact on Lung Ultrasound Scores in Extremely Preterm Infants with Evolving Bronchopulmonary Dysplasia [Oral presentation]. Child Health and Human Development Research Day, Montreal, Quebec.
24. Bukhari R, Whiteman I, Boateng K, Morency AM, Al Talhi Y, **Altit G**, Rampakakis E, Cavallé-Garrido T. (2026, Mar 31). Postnatal outcomes of fetal ascending aorta dilation [Oral presentation]. Joint McGill University and Université de Montréal Pediatrics Residents' Research Congress, CHU Sainte-Justine, Montreal, QC, Canada.
25. Kanaprach P*, Michel Macias C*, Moore SS*, Wutthigate P*, Hebert A, Nouraeyan N, Drolet C, Lapointe A, Villeneuve A, Bensouda B, Villegas Martinez D, Simoneau J, Cavalle-Garrido T, Dancea A, **Sant'Anna G, Altit G** (2025, July). Micro-preemies and evaluation of right ventricular function and pulmonary pressure at 4 months corrected age. NeoHeart 2025, San Diego, California, USA
26. Kanaprach P*, Michel Macias C*, Moore SS*, Wutthigate P*, Hebert A, Nouraeyan N, Drolet C, Lapointe A, Villeneuve A, Bensouda B, Villegas Martinez D, Simoneau J, Cavalle-Garrido T, Dancea A, **Sant'Anna G, Altit G** (2025, April). Micro-preemies and evaluation of right ventricular function and pulmonary pressure at 4 months corrected age [Oral presentation April 26, 2025 at 10:15am – 10:30am HST; Location: Convention Center: 315]. 2025 Pediatric Academic Societies' (PAS) Annual Meeting, Honolulu, Hawaii. [Oral – Abstract ID 1956501].
27. Roofigari N*, **Altit G.** (2025, Apr 27). Near-infrared spectroscopy in hypoplastic left heart syndrome: case-based discussion from the NIRS Atlas [Invited case presentation]. NIRS Atlas Launch Event, Pediatric Academic Societies (PAS) Annual Meeting, Prince Waikiki Hotel, Honolulu, HI, USA. Case selected for inclusion in the Newborn Brain Society NIRS Atlas multimedia educational resources.
28. Plessas-Azurduy P*, Hazan Mea J*, Sonea T*, Kanaprach P*, Michel Macías C*, Moore SS*, Wutthigate P*, Simoneau J, Villegas Martinez D, Villeneuve A, Lapointe A, **Sant'Anna G, Altit G.** (2025, March). Dexamethasone is associated with Ductal Closure in Extremely Preterm Infants with Evolving Lung Disease [Oral presentation]. 2025 Annual McGill Biomedical Graduate Conference, Montreal, Quebec.
29. Roofigari N*, Magri A*, Kanaprach P*, Michel-Macias C*, Mazzaello M*, Mir M*, Wutthigate P*, Moore SS*, Simoneau J, Villegas Martinez D, Dancea A, Bertolizio G, Cavalle-Garrido T, **Altit G.** (2025, March). Systemic Doppler velocities in newborns with congenital heart defects – A prospective study [Oral Presentation – Best Resident Presentation Award]. 2025 Montreal Children's Hospital / Hôpital Ste-Justine Joint Pediatric Resident and Fellow Research Day, Montréal, Canada.
30. Lopez Ibarra C*, Raboisson MJ, Brassard M, Mawad W, Gutierrez R, Villegas Martinez D, **Altit G.** (2025, March). Échocardiographie de strain dans l'évaluation de la croissance des hypoplasies ventriculaires gauches non sévère chez le fœtus [Oral Presentation]. 2025 Montreal Children's Hospital / Hôpital Ste-Justine Joint Pediatric Resident and Fellow Research Day, Montréal, Canada.

31. Kanaprach P*, Michel-Macias C*, Moore SS*, Wutthigate P*, Hebert A, Nouraeyan N, Drolet C, Lapointe A, Villeneuve A, Bensouda B, Villegas Martinez D, Simoneau J, Cavalle-Garrido T, Dancea A, **Sant'Anna G, Altit G.** (2025, March). Micro-preemies and evaluation of right ventricular function and pulmonary pressure at 4 months corrected age [Oral Presentation]. 2025 Montreal Children's Hospital / Hôpital Ste-Justine Joint Pediatric Resident and Fellow Research Day, Montréal, Canada.
32. Sahussarungsi S*, Wutthigate P*, Simoneau J, Ohayon A*, Villegas Martinez D, Henin C, Cavalle-Garrido T, Dancea A, Mawad W, **Altit G.** (2025, March). Feasibility of 4D-echocardiography for RV performance and dimensions in the immediate postnatal neonatal period – A prospective study [Oral Presentation]. 2025 Montreal Children's Hospital / Hôpital Ste-Justine Joint Pediatric Resident and Fellow Research Day, Montréal, Canada.
33. Al Talhi Y*, Cavalle-Garrido T, Altit G, Nogara S*, Michel-Macias C*, Moore SS*, Hebert A, Nouraeyan N, Drolet C, Lapointe A, Villeneuve A, Bensouda B, Villegas Martinez D, Simoneau J, Dancea A, **Sant'Anna G, Altit G.** (2025, March). Prevalence of mitral annulus disjunction (MAD) in extremely preterm neonates [Oral Presentation]. 2025 Montreal Children's Hospital / Hôpital Ste-Justine Joint Pediatric Resident and Fellow Research Day, Montréal, Canada.
34. Héguy, C.*, Palmis, S.*, Karat, B., Saint-Martin, C., Gilbert, G., Fortin, O., Duerden, E. G., **Wintermark, P., Brossard-Racine, M.** (2025, May 7). *Very preterm birth and neonatal hypoxic-ischemic encephalopathy distinctly impact early hippocampal development.* Healthy Brains, Healthy Lives Symposium 2025. Montreal, QC, Canada.
35. Héguy, C.*, Palmis, S.*, Karat, B., Saint-Martin, C., Gilbert, G., Fortin, O., Duerden, E. G., **Wintermark, P., & Brossard-Racine, M.** (2025, April 16). *Critical early life events differently affect hippocampal development at term age: A comparison between preterm birth and neonatal hypoxic-ischemic encephalopathy.* McGill University Health Center's Neonatal Research Day. Montreal, QC, Canada.
36. Lee, J.*, Héguy, C.*, Gilbert, G., Saint-Martin, C., & **Brossard-Racine, M.** (2025, August 11). Hippocampal development and its relation to executive function in adolescents and young adults born very preterm and with congenital heart disease. *RI-MUHC Summer Research Day.* Montreal, QC, Canada.
37. Itani, R.*, Chen, N.H.*, Gilbert, G., Saint-Martin, C., & **Brossard-Racine, M.** (2025, August 11). Alterations of brain metabolic profiles in young adult NICU survivors and in healthy controls. *2025 RI-MUHC Summer Student Research Day.* Montreal, QC, Canada.
38. Potvin-Jutras, Z.*, Sanami, S., Easson, K.*, Gilbert, G., Saint-Martin, C., Steele, C.J., **Brossard-Racine, M., Gauthier, C.J.** (2025, May 22). Reduced cerebrovascular reactivity in youth with congenital heart disease: links with cognition. *School of Health Conference.* Montreal, QC, Canada.
39. Potvin-Jutras, Z.*, Sanami, S., Easson, K.*, Gilbert G., Saint-Martin, C., Steele, C.J., **Brossard-Racine, M., Gauthier, C.J.** (2025, May 15). Resting-state BOLD fMRI cerebrovascular reactivity in youth with congenital heart disease. *ISMRM Conference.* Honolulu, Hawaii, USA.
40. Héguy, C.*, Palmis, S.*, Karat, B., Gilbert, G., Saint-Martin, C., Kyriakopoulou, V., Arichi, T., Duerden, E. G., **Shalish, W., & Brossard-Racine, M.** (2025, May 12). *Investigating the relationships between postnatal respiratory morbidities and hippocampal development in very preterm neonates.* Developmental Origins of Health and Disease 2025 meeting. Montreal, QC, Canada.
41. Héguy, C.*, Palmis, S.*, Karat, B., Saint-Martin, C., Gilbert, G., Fortin, O., Duerden, E. G., **Wintermark, P., & Brossard-Racine, M.** (2025, April 24-28). *Critical early life events differently affect hippocampal development at term age: A comparison between preterm birth and neonatal hypoxic-ischemic encephalopathy.* Pediatric Academic Societies Meeting. Honolulu, Hawaii, USA.
42. Chelabi K, Germain A, Treherne S, Kovacs L, **Olivier F**, Nouraeyan N, Ferrand A. *Enhancing Antenatal Consultations For Preterm Births Pediatric.* Academic Society Annual Meeting, 25 au 28 avril 2025, Bioéthique Clinique, abstract 1966648, Lundi le 28 avril 2025, Hawaii Convention Center, Honolulu, Hawaii

43. Mathieu T, Paliotti K, Hanna R, Lv S, Remmer E, **Olivier F**, Cote A, **Sant'Anna G**, and **Shalish W**, Standardized protocol for caffeine discontinuation in extremely preterm infants: impact on practices, cardiorespiratory events, and comorbidities, Pediatric Academic Societies (PAS), April 2025, neonatal research day, Honolulu, Hawaii
44. Gross A*, Campbell E*, Kearney R, **Sant'Anna GM**, **Shalish W**. Acoustic Indicators of Bubble CPAP Leaks and their Impact on Pressure Delivery in a Neonatal Model. Oral Presentation at the International Conference for Clinical Neonatology, Turin, Italy. September 2025.
45. Ikhlef L*, Saavedra Ruiz A*, Kearney R, **Sant'Anna GM**, **Shalish W**. Patterns of Respiratory Pauses, Bradycardias, and Desaturations in Extremely Preterm Infants during the Immediate Post-Extubation Period. Oral Presentation at the Canadian National Perinatal Research Meeting. May 2025.
46. Paliotti K*, Mathieu T*, Hanna R*, Lv S*, **Shalish W**. Occurrence of clinically significant cardiorespiratory events between 34 and 40 weeks postmenstrual age in extremely preterm infants. Oral Presentation at Pediatric Academic Societies, Honolulu, USA. April 2025
47. Gross A*, Campbell E*, Kearney R, **Sant'Anna GM**, **Shalish W**. Acoustic Indicators of bubble CPAP Leaks and their Impact on Pressure Delivery in a Neonatal Model. Work-in-Progress Poster Presentation at Pediatric Academic Societies, Honolulu, USA (April 2025) and Poster presentation at the Canadian National Perinatal Research Meeting (May 2025).
48. Senechal E, Radeschi D, **Shalish W**, Kearney R, **Sant'Anna GM**. Accuracy of a Wireless skin oxygen saturation monitor in the Neonatal Intensive Care Unit. Poster Presentation at Pediatric Academic Societies, Honolulu, USA. April 2025.
49. Senechal E, Radeschi D, **Shalish W**, Kearney R, **Sant'Anna GM**. Accuracy of a Neonatal Wireless skin sensor for Heart Rate Monitoring in the Neonatal Intensive Care Unit. Poster Presentation at Pediatric Academic Societies, Honolulu, USA. April 2025.
50. Senechal E, Jeanne E, Radeschi D, Gross A, Maximov A, Kearney R, **Shalish W**, **Sant'Anna GM**. Wireless Wearable Vital Sign Monitoring Technologies for the Neonatal Intensive Care Unit (NICU): A Systematic Review. Poster Presentation at Pediatric Academic Societies, Honolulu, USA. April 2025.
51. Senechal E, Jeanne E, Radeschi D, Gross A, Maximov A, Kearney R, **Shalish W**, **Sant'Anna GM**. Non-Contact Vital Sign Monitoring Technologies for the Neonatal Intensive Care Unit (NICU): A Systematic Review. Poster Presentation at Pediatric Academic Societies, Honolulu, USA. April 2025.
52. Alarcon Martinez T,, **Shalish W**,, Manley B. The respiratory trajectory of extremely preterm infants from birth to discharge. Poster Presentation at Pediatric Academic Societies, Honolulu, USA. April 2025.
53. Groulx-Boivin E, Biran V, ... **Garfinkle J**. Maximal Ventricular Dilatation and Timing of Intervention Predict Neurodevelopment in Preterm Post-hemorrhagic Ventricular Dilatation. Pediatric Academic Societies (Hawaii), April 2025. [Platform Presentation]
54. Dayan M, Devereaux PJ, Brown R, Ezekowitz J, Garg A, Halperin S, Lapinsky S, Pamidi S, Quinn A, Ramsay T, Turgeon A, Wood D, Zarychanski R, Abenhaim H, Bartlett S, **Beltempo M**, Boucoiran I, Da Costa D, Grandi S, Kelly L, Kimmelman J, Lacaze-Masmonteil T, McClymont E, McDonald E, Metcalfe A, Semenic S, Skeith L, Tunde-Byass M, Bérard A. Removing barriers to inclusion of pregnant and lactating people in clinical trials: PregTrial. North American Society of Obstetrical Medicine Annual Conference. New Port, RI, USA. April 2025 (poster)
55. Find My Bed – A decision-making algorithm for optimizing perinatal transfers at the provincial level [Poster presentation]. (2025, May 13). Canadian National Perinatal Research Meeting 2025, Montreal, QC, Canada.
56. Hodaie, A., Shah, P. S., Piedboeuf, B., Drolet, C., Bizgu, V., Bertelle, V., Masse, E., Lapointe, A., Simpson, C. D., Afifi, J., Shivananda, S., Mehrem, A. A., Lodha, A., Mukerji, A., Seshia, M., Hudson, J., Bodani, J., Ng, E., McMillan, D., Redpath, S., Lemyre, B., **Beltempo, M.**, & the Canadian Neonatal Network™. The association of team composition in the delivery room with outcomes of very preterm infants in Canada - A multicenter Prospective Cohort Study [Poster Presentation] (2025, May 13). Canadian National Perinatal Research Meeting 2025, Montreal, QC, Canada.

57. Quintero Salazar, J., Ting, J., Abou Mehrem, A., Khurshid, F., Boucoiran, I., Shah, PS., **Beltempo, M** ; on behalf of the Canadian Neonatal Network Investigators. Predictors of neonatal early-onset sepsis and risk stratification decision-making for preterm infants between 30 0/7 and 34 6/7 weeks. (2025). Canadian National Perinatal Research Meeting 2025, Montreal, QC, Canada. (Poster)
58. Quintero Salazar, J., Ting, J., Abou Mehrem, A., Khurshid, F., Boucoiran, I., Shah, PS., **Beltempo, M** ; on behalf of the Canadian Neonatal Network Investigators. Predictors of neonatal early-onset sepsis and risk stratification decision-making for preterm infants between 30 0/7 and 34 6/7 weeks. (2025). Canadian Paediatric Society 2025, Quebec, QC, Canada. (Poster)
59. Jabbour E., Woojin Yoo E., Wou K., Burrows J., Piedboeuf B., Mukerji A., Shah P., **Beltempo M.** on behalf of the Canadian Neonatal Network Investigators and the Canadian Preterm Birth Network Investigators. Trends in Antenatal Risk Factors and Outcomes of Very Preterm Infants in Canada (2010–2023). (2025). Canadian National Perinatal Research Meeting 2025, Montreal, QC, Canada. (Poster)
60. Jabbour E., Woojin Yoo E., Wou K., Burrows J., Piedboeuf B., Mukerji A., Shah P., **Beltempo M.** on behalf of the Canadian Neonatal Network Investigators and the Canadian Preterm Birth Network Investigators. Trends in Antenatal Risk Factors and Outcomes of Very Preterm Infants in Canada (2010–2023). (2025). Canadian Paediatric Society 2025, Quebec, QC, Canada. (Poster)
61. Ashraf Kharrat, **Marc Beltempo**, Joseph Ting, Thuy Mai Luu, Kamini Raghuram, Amber E. Reichert, Kristine Russell, Eugene W. Yoon, Prakesh S. Shah, Incidence And Outcomes Of Late-Onset Neonatal Septic Shock: A Nationwide Population-Based Observational Study. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
62. Telford Yeung, Asma M. Ahmed, **Marc Beltempo**, Petros Pechlivanoglou, Prakesh S. Shah. Costs Of Major Neonatal Morbidities Among Neonates Born <29 Weeks In Canada. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
63. Beth Ellen Brown, Prakesh S. Shah, Jehier Afifi, Seungwoo Lee, **Marc Beltempo**, **May Khairy**, Walid El-Naggar. Neurodevelopmental Outcomes Of Small For Gestational Age Preterm Infants Who Received Deferred Cord Clamping At Birth. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
64. Harkirat Singh Bhullar, Abhay Lodha, Prakesh S. Shah, **Marc Beltempo**, Amit Mukerji, Chelsea A. Ruth, Amelie Stritzke. Trend And Causes Of Neonatal Mortality In Canadian NICUs Between 2010–2022. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
65. Georg Schmolzer, Melanie Shaker, **Marc Beltempo**, Prakesh Shah, Ayman Sheta, Brigitte Lemyre, Faiza Khurshid, Man Yi, Joseph Ting, Rubens Alvaro, Christine Drolet, Eugene Ng, Jo-Anna Hudson. A Retrospective Study Comparing Outcomes Using A Flow-Inflating Bag And T-Piece Resuscitator. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
66. Rebecca Benn, Gina Rempel, Chrisy Pylypjuk, Deepak Louis, **Marc Beltempo**. Predictors Of Gastrostomy/Jejunostomy Tubes And Neurodevelopmental Outcomes In Infants Born At < 29 Weeks' Gestation In Canada. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
67. Marisa de Souza, Brigitte Lemyre, Bernard Thébaud, Brooke Read, Amit Mukerji, **Marc Beltempo**, Prakesh S. Shah. Assessing The Effects Of Introducing Prophylactic Hydrocortisone On Respiratory Outcomes In The Canadian Neonatal Network. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
68. Poorva Deshpande, Ipsita Goswami, Eugene Ng, **Jarred Garfinkle**, **Pia Wintermark**, Amit Mukerji, Eugene W. Yoon, **Marc Beltempo**, Prakesh S. Shah. Impact Of Early Neuroprotection 'Bundles' On Intraventricular Hemorrhage In Canadian NICUs. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
69. Andréanne Villeneuve, **Marc Beltempo**, Mathilde Lamothe, Anie Lapointe, Valerie Arsenault, Christian Lachance. Current Neonatal Transfusion Practices Across Canada. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)

70. Aseel M. Sa'deh, Walid El-Naggar, **Marc Beltempo**, Jehier Afifi, Prakesh S. Shah, Krystal Van Den Heuvel, Seungwoo Lee. Differential Exposure And Timing Of A Single Course Antenatal Steroids And Neurodevelopmental Outcomes Of Children Born Preterm: A National Cohort Study. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
71. **Marc, Beltempo**, Juliana Quintero Salazar, Joseph Ting, Ayman Abou Mehrem, Faiza Khurshid, Isabelle Boucoiran, Prakesh Shah. Estimating The Probability Of Neonatal Early-Onset Sepsis Among Infants Between 30+0 And 34+6 Weeks And Risk Stratification Based On Perinatal Factors And Early Neonatal Course. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
72. Elias Jabbour, Sarah McDonald, Jason Burrows, Bruno Piedboeuf, Amit Mukerji, Prakesh S. Shah, **Marc Beltempo**. Trends In Antenatal Risk Of Very Preterm Infants And Their Association With Outcomes In Canada 2010-2023: A Population-Based Cohort Study. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
73. Sriya Roychaudhuri, **Marc Beltempo**, Ipsita Goswami, Rebecca Sherlock, Brandi Newby. Predictive Role Of Umbilical Cord Blood Gas Values In Premature Infants With Intrauterine Growth Restriction. A National Cohort Study. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
74. Joseph Ting, Eugene Ng, Jonathan Wong, Kyong-soon Lee, Prakesh S. Shah, **Marc Beltempo**. Risk Of Late-Onset Sepsis Associated With Short Initial Empirical Antibiotic Treatment In Infants At Low Risk For Early-Onset Sepsis. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
75. Prakesh S. Shah, Nicole Bando, Seungwoo Lee, Kamini Raghuram, **Marc Beltempo**, Carlos Fajardo, Valerie Bertelle, Andrzej Kajetanowicz, Linh G. Ly, Rudaina Banihani, Belal Alshaikh. Probiotic Receipt And Neurodevelopmental Outcomes In A National Cohort Of Infants <29 Weeks' Gestation. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
76. Prakesh S. Shah, Alice Aveline, Nicole Bando, Mohammad Noaen, Jie Yang, Thuy Mai Luu, **Marc Beltempo**, Abhay Lodha, Jeffrey Brook. Maternal Exposure To Environmental Greenness, Air Pollution And Temperature And Neonatal Outcomes Of Preterms iNeo Survey Results. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
77. Andreanne Villeneuve, Stephanie Klam, Haim Abenhaim, David Paterson Victoria Bizgu, Orlando da-Silva, **Marc Beltempo**. Delayed Cord Clamping In Monochorionic-Diamniotic Twin Pregnancies: A Retrospective Cohort Study. Canadian Neonatal Network Annual Meeting, Montréal, QC, Canada; February 2025. (oral presentation)
78. de Souza, M., **Beltempo, M.**, Thébaud, B., Su, Y. C., Read, B., Mukerji, A., & Lemyre, B. (2025). 95 Assessing the effects of prophylactic hydrocortisone in the Canadian Neonatal Network. 2025 Annual Conference of the Canadian Paediatrics Society. Québec, QC, Canada. Mai 2025. Paediatrics & Child Health, 30(Supplement_2), pxf116-095.
79. Lanthier, M. S. P., Villeneuve, A., Audibert, F., Klam, S., Abenhaim, H., McDonald, S. D., & **Beltempo, M.** (2025). 99 Deferred cord clamping in very and extremely preterm monochorionic twins: A retrospective cohort study. Annual Conference of the Canadian Paediatrics Society. Québec, QC, Canada. Mai 2025. Paediatrics & Child Health, 30(Supplement_2), pxf116-099.
80. Brown, B. E., Shah, P., Afifi, J., Lee, S., **Beltempo, M.**, **Khairy, M.**, & El-Naggar, W. (2025). 89 Neurodevelopmental outcomes of small for gestational age preterm infants who received deferred cord clamping at birth. Annual Conference of the Canadian Paediatrics Society. Québec, QC, Canada. Mai 2025. Paediatrics & Child Health, 30(Supplement_2), pxf116-089.
81. Salazar, J. Q., & **Beltempo, M.** (2025). 86 Predictors of early-onset sepsis and risk stratification decision making for preterm infants. Annual Conference of the Canadian Paediatrics Society. Québec, QC, Canada. Mai 2025. Paediatrics & Child Health, 30(Supplement_2), pxf116-086.

AWARDS & GRANTS RECEIVED

Investigateur principal et équipe	Titre du projet	Programme et organisme de financement	Financement total (période)
Altit, G.	NORDIC-FU: Neonatal Outcomes Related to Early Discovery of Impaired Cardiac Function at Follow-Up Bonification of Funds Program (25% by the Montreal Children's Hospital Foundation on the CAD equivalent	American Thoracic Society (ATS) - Early-Career Investigator Award in Pulmonary Vascular Disease.	\$172,000 (2025-2026)
Altit, G.	Unrestrictive educational grant for the www.neocardiolab.com website educational tools	Mallinckrodt Pharmaceuticals	\$10,000 (2025-2026)
Principal Investigator: Pia Wintermark Co-Principal Investigators: Gabriel Altit , Anie Lapointe, Khorshid Mohammad Co-Investigators: Jehier Afifi, Nadya Ben Fadel, Mansoor Farooqui, Isabel Fortier, Mireille Guillot, Audrey Hebert, Matt Hicks, Majeeda Kamaluddeen, Kyong-Soon Lee, Lara Leijser, Elka Miller, Souvik Mitra, Betsy Pilon, Stephanie Redpath, Emmanouil Rampakakis, Georg Schmolzer, Sandesh Shivananda, Ganesh	The NECTAr Platform – A Pan-Canadian Platform Dedicated to Neonatal Hypoxic-Ischemic Encephalopathy: For Patient Care Optimization, Training, and Education	2024 Platform Support Grant Funding Agency: Brain Canada Foundation.	\$1,710,000 (2025-2028)

Srinivasan, Sophie Tremblay			
PI: Pia Wintermark Co-PIs: Gabriel Altit , Anie Lapointe Co-Investigators: Mireille Guillot, Audrey Hebert, Matt Hicks, Lara Leijser, Elka Miller, Khorshid Mohammad, Betsy Pilon, Emmanouil Rampakakis, Georg Schmolzer, Sophie Tremblay, Jennifer Unrau	Operating Grant. Sildenafil to repair the injured brain of critically ill neonates with hypoxic-ischemic encephalopathy. # 525589	Canadian Institutes of Health Research (CIHR):	\$1,170,450 (2025-2030)
Altit G, Beltempo M, Brossard-Racine M, Garfinkle J, Olivier F, Paquette K, Sant'Anna G, Sebire G, Shalish W, Wintermark P.	Neonatal Neurocritical Care to Improve Long Term Neurodevelopment. 2025-26 MSSA World Class Teams competition.	McGill University Health Centre – Research Institute - MSSA World Class Teams competition.	\$30,000 (2025-2026)
Principal investigator(s): Grandi, Sonia; Long Christina M. Other investigators: Altit, G ; Buchanan, F; Bérard, A; Carleton, BC; Eltonsy, S; Ferreira, E; Hawken, S; Kaul, PR; Khosrow-Khavar, F; Lakatos, P; Lemiere, C; Mehrabadi, A; Platt, RW; Ray, JG; Tse, S; Vinet, E; Winkvist, BD	BIologic drug safety and effectiveness interNational pharmacoepidemiologic study in pregnant women with autoimmune disorders or asthma and their children (BIONIC)	Canadian Institutes of Health Research (CIHR)	\$1,268,322 (2025-2029)
Collaborators: Altit, G ; Buchanan, F; Bérard, A; Carleton, BC; Eltonsy, S; Ferreira, E; Hawken, S; Kaul, P; Khosrow- Khavar, F; Lemiere, C; Mehrabadi, A; Platt, RW; Ray, JG; Tse, S; Winkvist, BD.	A Rigorous Evaluation of Asthma Biologic Safety and Effectiveness Using Real-World Data on Pregnant Moms and Their Children (REASSURE-MOMS) – Operating Grant: Early Career Researchers	Canadian Institutes of Health Research (CIHR)	\$150,000 (2025-2028)

	(ECRs) in Human Development, Child and Youth Health.		
Principal investigator(s): Daskalopoulou, Stella S Other Investigators: Abbasgholizadeh Rahimi, Samira; Altit, Gabriel ; Fortier, Isabel; Labos, Christopher; Makri, Angeliki; Malhamé, Isabelle; Nuyt, Anne Monique; Zamberg, Ido	Arterial Stiffness Trajectories as Early Predictors of Fetal Outcomes in High-Risk Pregnancies – Fall 2024	Canadian Institutes of Health Research (CIHR)	\$74,770 (2025-2026)
Gauthier, C. (NPA), Brossard-Racine, M. add co-I...	Exercise to improve cognition and brain health in congenital heart disease.	CIHR	\$925,650 (2025-2030)
Gabriel, A (NPA), Wintermark, P., Brossard-Racine, M, Pilon, B.	NINJA-HEART: Mapping Cardiovascular Health from the Perinatal Period to 9 Years of Age in Survivors of Neonatal Hypoxic-Ischemic Encephalopathy Treated with Therapeutic Hypothermia	Brain-Heart Interconnectome (BHI)	\$100,000 (2025-2027)
Shalish, W.	Detection and Differentiation of Respiratory Events using Acoustic Monitoring in extremely preterm infants (DREAM): a diagnostic accuracy study	Canadian Institutes of Health Research (CIHR) Operating Grant : Early Career Researchers in Human Development, Child and Youth Health	\$150,000 (2025-2028)
Shalish, W	Bubble Sense Project	McGill Innovation Fund (Discovery Stage)	\$25,000 (2025)
Ting J (NPI), Beltempo M (PI) , Shah P. co-I. Afifi, Jehier K; AUGUSTINE, SAJIT; Bacchini, Fabiana; Choudhury, Julie; Elsharkawy, Adel M; Gupta-Bhatnagar, Shikha; Hamilton, Claire L; Hicks, Matthew S; Joynt, Chloe; Kharrat,	Developing a national approach to surveillance and prevention for neonatal ventilator-associated pneumonia.	CHIR Project Grant.	\$612,000 (2025-2029)

Ashraf; Khurshid, Faiza; Lee, Kyong-Soon; Lemyre, Brigitte; Louis, Deepak; Madise-Wobo, Akpoembele D; Mitra, Souvik; Mohamed, Adel; Paquette, Vanessa C; Roberts, Ashley D; Robinson, Joan L; Shah, Vibhuti; Srigley, Jocelyn A; Stavel, Miroslav; Tse-Chang, Alena; Wang, Dianna; Wong, Jonathan; Yang, Connie L; Yoon, Eugene W			
Beltempo M (NPI), Neu J, Shah P, Bando N.	Redefining necrotizing enterocolitis in neonates using unsupervised machine learning.	Bourse d'excellence FRP	\$30,000 (2025-2027)
Mitra S (NPI), Schmolzer G, fifi, JK; Alhassen, Z; Bacchini, F; Beltempo, M Co-App ; Bone, JN; Gale, C; GamanBean, S; Hebert, A; Lewis, TR; Luu, T; Manley, BJ; Mcelroy, S; Miller, SP; Mohammad, K; Ng, E; Richter, LL; Roberts, CT; Soll, R; Ting, Y; Wong, HH; Yanowitz, TD; Zein, H; Zupancic, JA.	Singledose Prophylactic INdomethacin in extremely preterm infants A Multicenter Pilot Randomized Blinded Placebo-Controlled Trial (the SPIN Pilot RCT) .	CHIR Project Grant.	\$600,524 (2025-2028)
Dasgupta, Kaberi (NPI), Berger, H; Coolen, JD; Nerenberg, KA; Peters, T; Pylypjuk, C; Rahme, E, Abenhaim, HA; Banerjee, AT; Beltempo, M (Co-App) ; Bond, R; Brazeau, A; Butalia, S; Da Costa, DM; Fortier, I; Garfield, N; Godbout, A; Gouin, J; Lamb, K; Lawler, PR; Li, PT; Melamed, N; Morency, A; Nakhla, M; Osmanlliu, E; Shah, BR; Shen, GX; Ukah, U;	Activating atrisk Pregnant persons through step tracking and weekly targets to reduce adverse Outcomes and Cardiometabolic Consequences (APOCC).	CHIR Project Grant.	\$3,600,329 (2025-2030)

Wicklow, BA; Wo, B; Yamamoto			
Sadarangani M (NPA), QuachThanh, C, T Jong, GW; Ali, S; Banerjee, AT; Basta, N; Beltempo, M (co-APP) ; Bhatt, M; Boucoiran, I; Buchanan,F; Carwana, M; Constantinescu, CM; Drouin, O; Fontela, PS; Foster, J; Gill, PJ; Isabel, S; Knisley, L; LacazeMasmonteil, T; Lalgudi Ganesan, S; Li, PT; Mater, A; Morris, SK; Papenburg, J; PortalesCasamar, E; Rufiange, M; Sehgal, AV; Selvakumar, S; Shah, AS; Singh, B; Wright, B.	Better Outcomes in Babies with Bacterial meningitis, a randomized controlled trial: BOBBie.	CHIR Project Grant.	\$401,202 (2025-2030)
Mitra S (NPA), Richter L, Bacchini F, Beltempo M(Co-app) , Disher T, Ting J, Wiebe T,	Advancing Patent Ductus Arteriosus (PDA) Management in Preterm Infants: A Collaborative Planning and Dissemination Initiative in Canada.	CHIR Planning Grant.	\$50,000 (2025-2027)
Paquette, K	A Randomized Controlled Trial of Oral Antimicrobial Therapy for Patients with Staphylococcus aureus Bacteremia: The Early Oral Switch Domain in the Staphylococcus aureus Network Adaptive Trial (EOS-SNAP).	Canadian Institutes of Health Research Fall Project Grant	\$1,705,952 (2025-2029)

Grants and Awards : 12,786,199\$

INVITED TALKS

1. **Altit G.** (2025, November 11-14). Neonatal Point of Care Ultrasound Workshop. 2025 American Academy of Pediatrics' 108th Perinatal & Developmental Medicine Symposium. Bonita Springs, Florida, United States of America.
2. **Altit G.** (2025, Nov 5). Session moderator – Challenges in Neonatal Care. Dr. Regan Giesinger Clinical Cardiopulmonary Physiology for the Care of the Sick Newborn Course, Toronto, ON, Canada (virtual). United States of America.
3. **Altit G.** (2025, October 24). “What the problem? NPE for evaluation of systolic vs. diastolic heart failure in neonatal shock”. jENS 2025 - 6th Congress of joint European Neonatal Societies. Belgrade, Serbia.
4. **Altit G.** (2025, Oct 3). Phenotyping acute pulmonary hypertension in prematurity [Invited virtual presentation]. NeoFOCUS-UK Educational Series, United Kingdom. Recording available on YouTube: NeoFOCUS-UK Lecture Recording (<https://www.youtube.com/watch?v=ECsxWxt8NGU>).
5. **Altit G.** (2025, Aug 20). Pulmonary hemorrhage: risk factors and prevention [Invited virtual panel presentation]. Pan-American Hemodynamics Collaborative (TnECHO). Panelists: Drs. Souvik Mitra, Audrey Hébert, and Irina Prelipcean. Moderators: Drs. Patrick McNamara and Rachael Hyland. University of Iowa / Pan-American Hemodynamics Collaborative. 2:00–3:30 PM EST.
6. **Altit G.** (2025, August 1). Moderator. Pulmonary Hypertension session. Neoheart 2025. San Diego, California, United States.
7. **Altit G.** (2025, July 31). Moderator. Pulmonary Hemorrhage in ELBW. Neoheart 2025. San Diego, California, United States.
8. **Altit G.** (2025, July 29). Pulmonary Hypertension in BPD. BPD: Predict, Prevent, Personalize Workshop. Neoheart 2025. San Diego, California, United States.
9. **Altit G.** (2025, July 29 to August 1). Member of the organization committee. Neoheart 2025. San Diego, California, United States.
10. **Altit G.** (2025, July 29). Hemodynamics of BPD- heart and lung interactions/PH. *NeoHeart PreConference Workshop: Bronchopulmonary Dysplasia: Predict, Prevent, Personalize*. (Invited by Dr Shazia Bhombal). Neoheart 2025. San Diego, California, United States.
11. **Altit G.** (2025, July 9). Transposition of the great arteries Review [Invited teaching session]. Phoenix Children's Neonatal Hemodynamics & Congenital Heart Disease Bootcamp, Phoenix Children's Hospital NICU Fellow Curriculum (virtual), Phoenix, AZ, USA.
12. **Altit G.** (2025, June). Pulmonary Hypertension (PVD) in BPD: pragmatic management approach. Annual International Neonatal Conference. The James Cook University Hospital, Middlesbrough. Theme: Improving neonatal care – Learning through Interaction. Middlesbrough, United Kingdom.
13. **Altit G.** (2025, June). How do I manage a preterm baby with low blood pressure? Annual International Neonatal Conference. The James Cook University Hospital, Middlesbrough. Theme: Improving neonatal care – Learning through Interaction. Middlesbrough, United Kingdom.
14. **Altit G.** (2025, June). Session 5: Interactive Neonatal Haemodynamics and Functional Echocardiography Workshop. Other moderators: Neil Patel, Mahmoud Montasser, Bikash Bhojnagarwala. Annual

International Neonatal Conference. The James Cook University Hospital, Middlesbrough. Theme: Improving neonatal care – Learning through Interaction. Middlesbrough, United Kingdom.

15. **Altit G.** (2025, April 26). Generating New Science in Neonatal Hemodynamics - a Bridge over Troubled Waters. Hot Topic Symposia Session: Looking through the same lens: Integrating pediatric cardiology and neonatology for optimal hemodynamic care in the NICU. Panel: Stephanie Acosta, Gabriel Altit, Soume Bhattacharya, Shazia Bhombal, Stephanie Ford, Patrick McNamara, Danielle R. Rios. Pediatric Academic Societies 2025. Honolulu, United States.
16. **Altit G.** (2025, March 28). A perspective on neonatology-led and multidisciplinary teams in the management of pulmonary hypertension in the NICU. 18th UCSF International Conference on Neonatal and Childhood Pulmonary Vascular Disease, San Francisco, United States.
17. **Altit G.** (2025, March 25). Shock in the newborn: cardiogenic, distributive, obstructive - cardiac POCUS evaluation and therapies. Neonatal POCUS Collaborative. International Collaboration (online webinar).
18. **Altit G.** (2025, March 14). Overview of cardiovascular medications in the NICU. KK Women's and Children's Hospital (KKH) Neonatology Discussions – Invited Speaker. Singapore, Singapore.
19. **Altit G.** (2025, February 28). Prematurity: A lifelong cardiovascular risk factor starting in infancy. Bangkok International Neonatal Symposium 2025. Bangkok, Thailand
20. **Altit G.** (2025, February 24th -25th). Member of the organizing committee at the Targeted Neonatal Hemodynamic Conference: Pre-congress workshop (80 participants) and Lecture on the Overview of Targeted Neonatal Echocardiography. Bangkok International Neonatal Symposium. Bangkok, Thailand
21. **Altit G, Mitra S, Jain A** (2025, February 9th). Panel on PDA. EPIQ Conference. Montreal, Canada.
22. **Altit G.** (2025, Nov 26). Hyperbilirubinémie néonatale : nouvelles lignes directrices 2025. Invited speaker. Pédiatrie + Conference 2025 – CHU Sainte-Justine, Montreal, QC, Canada.
23. **Altit G.** (2025, Nov 18). Pulmonary Hypertension in Extreme Prematurity. Invited speaker. Newborn Symposium 2025, New Brunswick, Canada.
24. **Altit G.** (2025, Nov 18). Hemodynamic assessment and management of shock in the preterm infant. Invited speaker. Newborn Symposium 2025, New Brunswick, Canada.
25. **Altit G.** (2025, Sep 16). Prise en charge du canal artériel : la CON-troverse – Une perspective audacieuse sur la persistance du canal artériel chez le prématuré. Invited speaker. Département de pédiatrie Grand Rounds, Centre hospitalier universitaire de Sherbrooke (CIUSSS de l’Estrie – CHUS), Sherbrooke, QC, Canada.
26. **Altit G., Lapierre C.** (2025, Jun 18). Le bébé bleu : optimisation du dépistage prénatal et diagnostic des cardiopathies congénitales cyanogènes. Invited speakers. Société de radiologie du Québec (SRQ) Webinar Series, Quebec, Canada (virtual).
27. **Altit G, Launay A.** (2025, Jun 11). Promoting skin-to-skin care in the NICU: from principles to practice [Invited national presentation - Virtual]. Canadian Association of Neonatal Nurses (CANN), Canada.
28. **Altit G.** (2025, Dec 18). Update on detection and management of hyperbilirubinemia in newborns. Invited speaker. Medical Day Hospital (MDH) Meeting – Montreal Children’s Hospital, Canada.
29. **Altit G.** (2025 October 30). Organizer and Moderator, 2nd NeoCardioLab Neonatal Cardiology Research Day, NeoCardioLab / Research Institute of the McGill University Health Centre, Montreal, QC, Canada. Coordinated and moderated an academic half-day dedicated to neonatal cardiology and hemodynamics research, featuring invited speakers Dr. Tiscar Cavallé-Garrido, Dr. Frédéric Dallaire, and Dr. Nagib Dahdah, alongside trainee oral presentations in neonatal cardiovascular imaging and physiology. Supported with a 10,000\$ unrestrictive educational grant by Mallinckrodt. [Website](#).

30. **Altit G.** (2025, June 12 and 26). Pulmonary Hypertension. Pediatric Respiratory Medicine Academic Half-Day (n=5). McGill University, Montreal, Canada.
31. **Altit G.** (2025, May 29). Neonatal Hyperbilirubinemia. Pediatric Emergency Medicine Rounds. Montreal Children's Hospital, Montreal, Canada.
32. **Altit G.** (2025, February). Congenital Cardiac Lesions for the Neonatal Nurses. Genesis program for senior nurses in the NICU. Montreal Children's Hospital, Montreal, Canada.
33. **Altit G.** (2025, February). Pulmonary Hypertension. Academic Half-Day of the Pediatric Critical Care Medicine Fellowship Program (n=10). McGill University, Montreal, Canada.
34. **Altit G.** (2025, January). Canadian Paediatric Statement on Neonatal Hyperbilirubinemia. Neonatal Rounds. McGill University, Montreal, Canada.
35. **Brossard-Racine, M.** (12 Decembre 2025). Long-term outcome of neonatal encephalopathy. MCH Neonatal Round. Montreal, Canada.
36. **Brossard-Racine, M.** (24 October 2025). Impact des complications néonatales sur le neurodéveloppement : Entre vulnérabilité et adaptation. NeuroQAM. Montreal, Canada.
37. **Brossard-Racine, M.** (2025, September 20th). Reflections, challenges and the road ahead. 14th Annual Scientific Session Cardiac Neurodevelopmental Outcome. Denver, CO, USA.
38. **Brossard-Racine, M.** (2025, March 14th). Brain health for the adolescent and young adults. Heart University Webinar <https://www.heartuniversity.org/webinars/brain-health-in-congenital-heart-disease-across-the-lifespan/>. Cincinnati Children Hospital, Cincinnati, MI, USA.
39. **Brossard-Racine, M.** Keynote speaker (2025, January 29). From surviving to thriving: Overcoming the long-term consequences of neonatal adversities. Pediatric Grand Round, Montreal Children's Hospital, Montreal, Canada.
40. **Shalish, W.** 20th symposium of the Société Legallois pour l'Étude du Contrôle Respiratoire, Québec. Presentation entitled: 'Breath by Breath: A new vision on apnea monitoring in neonates'. *Jan 19th 2025*
41. **Shalish, W.** ENRICH 3rd annual symposium. Presentation entitled: 'Sound as the Sixth Vital Sign: When Hearing Becomes Healing' (Keynote). *May 14th 2025*
42. **Shalish, W.** NeoMIND-AI Webinar Series, USA. Presentation entitled 'Building the NICU of the Future: Advancing Innovation through Smarter Monitoring'. *Sep 25th 2025*
43. **Shalish, W.** Formation continue en soins néonataux, Département de Pédiatrie de l'Hôpital de Gatineau. Presentation entitled: 'Apnée, Brady et désaturations'. *Oct 1st 2025*
44. **Shalish, W.** From Cribs to Computer Code: Surfing the AI Wave in Neonatology. Pre-conference session at the Pediatric Academic Societies Annual Meeting, Honolulu, Hawaii, USA. *April 2025*.
45. **Beltempo M.** Organization of care in neonatology : time for evidence-based management? Center for Outcomes Research and Evaluation Scientific Rounds– MUHC. Montreal, QC, Canada. January 2025
46. **Beltempo M.** Building on the legacy of the EPIQ journey. Evidence-Base Practice for Improving Quality Annual Meeting. Montreal, QC Canada; February 2025.
47. **Beltempo M.** Methods in research: the win odds. Evidence-Base Practice for Improving Quality Grand Rounds. Virtual. March 2025.
48. **Beltempo M.** From Tradition to Innovation: INSURE, LISA/MIST, SALSA for surfactant administration. Canadian Neonatal Perinatal Research Meeting 2025. Montreal, QC. Canada; May 2025
49. **Beltempo M.** Work organization and health care resource use : time for evidence-based management? Canadian Pediatrics Society Annual Meeting 2025. Quebec, QC, Canada. May 2025
50. **Beltempo M.** Financement axé sur le patient en néonatalogie : implications cliniques et ce que les cliniciens doivent savoir. Conférence de la Société des Néonatalogistes du Québec 2025. Quebec, QC. October 2025
51. **Beltempo M.** Work organization and health care resource use : time for evidence-based management? Montreal Children's Hospital Pediatric Grand Rounds. Montreal, QC, Canada. December 2025
52. **Beltempo M.** AI in maternal-neonatal intensive care. 2025 Brazilian Congress of Perinatology. Rio de Janeiro, Brazil; November 2025

53. **Beltempo M.** Organization of care in critical congenital heart disease. 2025 Brazilian Congress of Perinatology. Rio de Janeiro, Brazil; November 2025
54. **Beltempo M .** Organization of clinical process in neonatal care: dimensioning and training for quality of care. 2025 Brazilian Congress of Perinatology. Rio de Janeiro, Brazil; November 2025
55. **Beltempo M.** Work organization and health care resource use : time for evidence-based management? Montreal Children's Hospital Pediatric Grand Rounds. Montreal, QC, Canada. December 2025