

Dear colleagues and friends,

We are pleased to announce that the **McGill University Fellowship (AFC – Royal College of Physicians and Surgeons of Canada Accredited) in Neonatal Hemodynamics and Targeted Neonatal Echocardiography (NH-TNE)** is now open for applications for a **start in July 2027**. Our program provides advanced clinical and academic training in neonatal cardiovascular physiology, targeted neonatal echocardiography, and hemodynamic management of critically ill newborns. We would be grateful if you could share this opportunity with colleagues or trainees who may be interested in pursuing advanced training in neonatal hemodynamics and targeted neonatal echocardiography.

Description: Our Neonatal Hemodynamics and Targeted Neonatal Echocardiography (NH-TNE) AFC Accredited Training Program at McGill University offers a unique training environment that combines rigorous clinical exposure, strong academic mentorship, and an exceptionally stimulating clinical setting. Fellows train primarily at the Montreal Children's Hospital (Hemodynamics, Cardiology, Echo Lab) and the Jewish General Hospital (Neonatology Exposure), two major tertiary centers that provide exposure to a wide spectrum of complex neonatal conditions where cardiovascular physiology plays a central role, including extreme prematurity (22 to 28 weeks), pulmonary hypertension, congenital diaphragmatic hernia, therapeutic hypothermia for HIE, and other challenging neonatal pathologies (rare conditions, cardiac surgery, ECMO). The program benefits from close collaboration with pediatric cardiology, creating a rich environment to develop advanced expertise in neonatal cardiovascular physiology and imaging. Beyond the clinical experience, fellows are integrated into an active academic ecosystem with opportunities for research, scholarly development, and international collaboration. Montreal itself offers an exceptional quality of life—an internationally vibrant, multicultural, and bilingual city known for its academic excellence, culture, gastronomy, and welcoming atmosphere—making it a wonderful place to live, train, and build lasting professional connections.

The application portal runs until September 1st of the year prior to the start. You can apply by [clicking here](#). For first-time users, you will need to [create an account](#) (see bottom of the page of the PGME website). Please note that only applications through the PGME website of McGill will be accepted. No documents/applications by email will be retained.

The program description is available under the [Fellowship page](#) and attached to this email. The program is based on 2 sites - the [Montreal Children's Hospital](#) and the [Jewish General Hospital](#). During the training program, you are exposed to a wide range of pathologies, in which the hemodynamics may be disturbed (congenital diaphragmatic hernia, pulmonary hypertension, extreme prematurity, omphalocele, therapeutic hypothermia with HIE, infant of diabetic mother, tuberous sclerosis, cardiomyopathy, etc.).

You are also exposed - within your [Pediatric Cardiology](#) blocks, to congenital heart defects and their inherent pre- and post-OR physiology, as well as to the echocardiography laboratory. The program expects that there will be a scholar project, with eventually a publication and presentation at local, national and international conferences. All our fellows have been extremely successful in their neonatal hemodynamics academic journey.

If you do not have your own funding, there are some competitive scholarships within the McGill structure (such as the Alan Ross Bursary). As such, **we still encourage you to apply if you do not have secured funding**. Interviews take place with the selection committee in September after the portal has closed.

Please feel free to contact us if you have any questions - You can contact us: [programadmin@neonat.med@mcgill.ca](mailto:programadmin@neonat.med@mcgill.ca) and [gabriel.altit@mcgill.ca](mailto:gabriel.altit@mcgill.ca) (program director) and PGME Coordinator [pgcoordinator.med@mcgill.ca](mailto:pgcoordinator.med@mcgill.ca).



Eligibility from the McGill University office: In order for a physician to be able to be considered for a fellowship (post residency training), they must hold a specialty certificate **from a Board or College (most commonly)** or have completed the USMLE exams (steps 1 and 2) and/or the Medical Council of Canada exam (MCCEE and/or MCCQE1). Please note that candidates will have to submit proof of funding. Acceptable Scholarships must be granted by a non-profit source. This can be a government, a scientific or international organization, a University, Hospital, Faculty of Medicine. All other scholarships (for example, self-funding) will be refused. Unfunded training is not possible. The minimum acceptable bursary is the equivalent of the R-1 Salary. Additionally scholarships must cover tuition fees and other student fees, Please consult the appropriate section on this: <http://www.mcgill.ca/student-accounts/tuition-charges/fallwinter-term-tuition-and-fees/graduate-fees>

## Structure of the program:

	1	2	3	4 & 5	6 to 7	8 to 11	12	13
<b>Neonatal Hemodynamics Blocks</b>	Orientation MCH/JGH	Junior Hemodynamics (Orientation)	Echocardiography Lab - Junior	<b>Echocardiography Lab Longitudinal</b> Emphasis on scanning and Echo Lab discussions	<b>Neonatal Intensive Care Cardiology</b> Emphasis on NICU scanning and consultation framework	Senior Longitudinal Hemodynamics	Junior Staff Hemodynamics CHU Sainte-Justine <a href="#">Dr. Lapointe</a> <a href="#">Dr. Villeneuve</a>	Junior Staff Hemodynamics MCH
<b>Competencies</b>	Get familiar with units / processes / systems in NICUs	Knobology, TNE protocols, Core concepts in NH, Core scanning skills	Foundation in Core Scanning skills in ECHO lab	<ul style="list-style-type: none"> <li>Daily requested Neonatal Echocardiography with ECHO Lab performed by NH-TNE trainee in NICU (reviews with the ECHO lab attending)</li> <li>NICU only Cardiology New Consultations</li> <li>NICU Cardiac Patients Assessments and Management</li> <li>Ad Hoc afternoon TNE scans and Case reviews with NH-TNE attending</li> </ul>	<ul style="list-style-type: none"> <li>NT-TNE trainee reviews each morning requests with attending teams</li> <li>Reviews charts (history), investigations and examines patients</li> <li>Performs TNE and measurements</li> <li>Produces report and consult with recommendations</li> <li>Notifies team with recommendations</li> <li>Follow-ups on patients longitudinally</li> <li>Junior Staff Months – Increase autonomy.</li> </ul>			
<b>Call Shifts Schedule</b> 7 shifts in NICU/block (including 1 week-end)	Calls	Calls	No Calls		Calls	Calls	No Calls	Calls
<b>Scholar projects</b>	<b>Phase A</b>		<b>Phase B</b>			<b>Phase C</b>		
	<ul style="list-style-type: none"> <li>PubMed Essentials, OVID Medline, EndNote Workshops</li> <li>CITI / SOP training and privileges for research</li> <li>Project selection / development</li> </ul>		<ul style="list-style-type: none"> <li>Ongoing Research TNE scans</li> <li>Training for ECHO-based Data extraction (Research TNE)</li> <li>Training for statistical analysis</li> <li>Database construction</li> <li>Data collection and extraction</li> </ul>			<ul style="list-style-type: none"> <li>Ongoing Research TNE scans</li> <li>Data analysis</li> <li>Data interpretation</li> <li>Training for Abstract and Poster production                             <ul style="list-style-type: none"> <li>Abstract and Poster production</li> <li>Manuscript production                                     <ul style="list-style-type: none"> <li>Manuscript submission</li> <li>Rebuttal process</li> </ul> </li> </ul> </li> </ul>		

**To Apply – Click Here:** <https://admissions.pgme.mcgill.ca/apply/>

Thank you,

**Gabriel Altit, MD, MSc, FRCPC, FASE, DRCPC**

[Bluesky](#) – [X/Twitter](#) / [Instagram](#) / [LinkedIn](#)

He/him/his - Il/lui

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<http://www.neocardiolab.com>



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