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INTRODUCTION

The year 2017 was marked by a tangible renewal of the Department's commitment to its academic mission, which includes clinical innovation, education, research across all pillars, advocacy, and administration. Indeed there was a re-affirmation of a commitment to excellence in each of these domains. The evidence for this is from the Department's implementation of all recommendations made in the 2016 External Cyclical Review (<https://www.mcgill.ca/peds/about/annualreports>) and its adoption of a new Strategic Plan (<https://www.mcgill.ca/peds/about/strategic-planning-initiative>) after vigorous internal discussion and a Departmental-wide electronic vote.

This Annual Report and the wealth of achievements it documents is but further evidence of this excellence. While what has been achieved is worthy of note and celebration, what is truly exciting is the future and what lies ahead.

SECTION I: RESEARCH AND PUBLICATIONS

RESEARCH HIGHLIGHTS

Regarding research, there is no doubt that we are on the right track: our clinician-scientists and basic researchers have been extremely successful in advancing pediatric research and imprinting the McGill brand in different fields. However, we all feel that going further, it is essential for us to foster a strong collaboration between researchers, clinicians, patients/parents, and our community. The different perspectives offered by each of these groups are crucial for the development of meaningful research questions for the pediatric population.

Thus, the mandate of the Department of Pediatrics Research Working Group for 2018 is to integrate research to our Departmental activities. Besides promoting the collaboration between researchers and clinicians, we also aim to provide mentoring for our junior researchers and support to all our clinician scientists and basic researchers, so they can thrive in their academic careers. In addition, we will seek to build infra-structure to support studies performed by residents, fellows and clinicians. Finally, we aim to reach out to the community to build strong network partnerships.

New external funding in the Department includes:

- **Marie Brossard-Racine**
Fonds de recherche Santé (60,000\$), « Caractériser le développement du cerveau des enfants à risque de troubles neurodéveloppementaux »
Canadian Institutes of Health Research (200,000\$), "One year of brain maturation following a preterm birth"
- **Delphine Collin-Vezina**
Social Sciences and Humanities Research Council (\$64,890), « Valeur sociale et économique de centres d'intervention communautaires visant des clientèles vulnérables d'enfants, de jeunes et de leurs familles »
Canadian Institutes of Health Research (\$11,462), « Planification d'une recherche sur la valeur sociale et économique des centres de pédiatrie sociale au Québec »
Max Bell Foundation (\$11,857), « Identifying the best social return on investment model to assess the value of social pediatrics »

- **Kolja Eppert**
Canadian Institutes of Health Research (150,000\$), “Novel therapeutics to target leukemia stem cells”
- **Paul Goodyer**
Cystinosis Research Network (150,000\$) , “ELX-02 therapy for cystinosis caused by CTNS nonsense mutations”
- **Nada Jabado**
Canadian Institutes of Health Research (\$2,401,858), “Oncohistones in Cancer”
Core 2 Brain Tumour society (\$50,000), “Preliminary Defeat Pediatric Brain Tumors Research Award”
- **Michael Zappitelli**
Canadian Kidney Foundation (\$100,000), “11 year renal outcomes after pediatric intensive care unit admission: acute kidney injury and disease progression”

2017 Canadian Institutes of Health Research (CIHR) Project Grants:

- **Geneviève Bernard** received \$563,959 from 2017-2020 for “Unraveling the molecular basis of novel forms of hypomyelinating leukodystrophies”.
- **Nancy Braverman** was awarded \$959,310 from 2017-2022 for “Getting ready for vision therapy in peroxisome biogenesis disorders”.
- **Lily Hechtman** received \$715,276 from 2017-2021 for “Efficacy of cognitive behavioural and skills training therapy of adolescents with ADHD”.
- **Laurent Legault** was awarded \$351,901 from 2017-2020 for “Optimizing insulin basal rate adjustments to prevent exercise-induced hypoglycemia in patients with type 1 diabetes using insulin pump therapy”.
- **Maryam Oskoui** received \$600,524 from 2017-2021 for “Genetic insights to the causes of cerebral palsy”.
- **Aimee Ryan** was awarded \$837,675 from 2017-2022 for “Transient disruption of blood-testis barrier for efficient delivery of spermatogonial stem cells to their niches: Toward a novel fertility restoration strategy for boys with cancer”.

External Salary Awards (CIHR, FRSQ, CCHCSP)

- Dr. Moshe Ben-Shoshan FRQ-S Chercheur - clinicien Junior I
- Dr. Geneviève Bernard, CIHR New Investigator Award
- Dr. Marie Brossard-Racine, FRQ-S Chercheur – Junior I
- Dr. Kolja Eppert, Canada Research Chair (Tier II)
- Dr. Patricia Fontela, CCHCSP Career Development, FRSQ Chercheur - clinicien Junior I
- Dr. Bethany Foster, FRQ-S Chercheur - clinicien Senior
- Dr. Isabelle Gagnon, FRQ-S Chercheur - clinicien Senior
- Dr. Nada Jabado, FRQ-S Chercheur - Chaire de recherche
- Dr. Patricia Li, FRQ-S Chercheur - clinicien Junior I
- Dr. Mary Ellen MacDonald, FRQ-S Chercheur - boursier Junior II
- Dr. Meranda Nakhla, FRQ-S Chercheur - clinicien Junior I
- Dr. Maryam Oskoui, FRQ-S Chercheur - clinicien Junior II
- Dr. Jesse Papenburg, FRQ-S Chercheur - clinicien Junior I
- Dr. Janet Rennick, FRQ-S Chercheur - clinicien Senior
- Dr. Ernest Seidman, Canada Research Chair (Tier I)
- Dr. Myriam Srouf, FRQ-S Chercheur - clinicien Junior I
- Dr. Pia Wintermark, FRQ-S Chercheur - clinicien Junior II
- Dr. Michele Zappitelli, FRQ-S Chercheur - clinicien Senior

PUBLICATIONS

A list of 2017 publications for the Department is available at:

<https://www.mcgill.ca/peds/mission/publications>

SECTION II: TEACHING AND LEARNING (Undergraduate and Graduate)

As a Department, we are fortunate to have a wealth of excellent teachers, educators and educational leaders. In addition to the multitude of Divisional educational initiatives, our commitment to education and collaboration has allowed us to accomplish many departmental education-related achievements during the past year which will continue in 2018, including:

- Update of the Department of Pediatrics' Education and Training Webpage. The Education and Training section of the Department of Pediatrics website now include important and up-to-date information. www.mcgill.ca/peds/education-training
- New role: Division Education Leader (DEL) – This new leadership role has been created for each Division to allow streamlined educational liaison between the Divisions as well as between the Departmental education leaders and the Divisions. DELs will communicate with their Divisions regarding important educational information and updates. www.mcgill.ca/peds/education-training/leadership-and-administration
- Revision of Alan Ross and Clinical Bursary process, forms and scoring – The Departmental Education Leadership Committee (DELCL) revised the application forms and selection process for the Alan Ross and Clinical bursaries to be more objective, to align with Department of Pediatrics CaRMS selection criteria and to be more transparent. In addition, Dr. Patricia Fontela (in her role as Associate Director of Research) will now be responsible for the Alan Ross bursary recipient. www.mcgill.ca/peds/education-training/leadership-and-administration
- Streamlined Process for Faculty Participation in OSCEs and STACERs (H&P for R3s) – Drs. June Ortenberg and Jade Seguin have improved the STACER process by addressing barriers to faculty participation.
- Institute of Pediatric Simulation (IPS) – The Pediatric Simulation Committee, led by Dr. Ilana Bank, has been actively developing the Department's simulation program, now named the Institute of Pediatric Simulation. The IPS will provide procedural-based simulation and to house simulation material and equipment. The IPS team will be launching the Pediatric Simulation Team Consultation service on January 8th, 2018. www.mcgill.ca/peds/education-training/institute-pediatric-simulation
- Competency-Based Medical Education (CBME) – All Pediatric residency training programs are anticipated to implement the CBME framework i.e. Competency By Design (CBD) by July 2019. Dr. Elisa Ruano-Cea is leading the CBD Curriculum and Assessment Steering Committee to ensure that all Department of Pediatrics' residents and faculty are trained regarding CBME/CBD and will be presenting important CBME/CBD information to each Division. www.mcgill.ca/peds/education-training/pgme/competency-based-medical-education
- Continuing Professional Development (CPD) - As Director of CPD, Dr. Terry Sigman, has been actively working on new processes and initiatives that will help advance and innovate CPD activities for the Divisions and Department. Dr. Sigman is currently working on centralizing information related to Departmental CPD activities (Divisional and Department-wide activities) and is determining the best process and platform to provide Departmental members and community partners with CPD resources such as recorded lectures, references, etc.

- AEC Audit of Educational Administrative Support - In response to feedback from Departmental members and educational administrators regarding lack of adequate educational administrative support for divisions, the Department initiated an audit of our educational administrative support in 2017. This audit included feedback from faculty from each Division. The purpose of this audit is to increase and improve the distribution of educational administrative support.

PEDIATRIC RESIDENCY PROGRAM

The 2017-2018 academic year was a very busy one for the pediatrics residency program. The new Program Director, Robert Sternszus, and Associate Program Director, Olivia Tse, oversaw the development of significant changes in the residency program guided by their complementary interests and experience in medical education and resident wellness. These initiatives include:

- The implementation of mandatory direct observation with feedback in all rotations
- The development of a Competence-by-Design Curriculum (CBD) and Assessment Steering Committee to help guide the transition of the program to CBD in 2020
- The transition of the Program Promotions Committee to a Competence & Promotions Committee
- The implementation and evaluation of our first ever stage-specific resident boot camps
- The appointment of a Resident Selection Lead and revision of our selection procedures
- The implementation of several initiatives designed at improving the service-to-education balance on all clinical teaching units
- The implementation of a longitudinal assessment of resident professionalism
- The development and implementation of a formal curriculum on resident wellness and resilience
- The implementation of more formal requirements and expectations for resident research and scholarship designed to enhance the culture of research within our program
- The development of a pilot project for residents to do their Resident Continuity Clinic in the community (to begin July 2018)
- The implementation of mandatory training and certification in Quality Improvement and Patient Safety for all residents (QuIPS Yellow Belt)
- The development and implementation of a new resident call schedule that is aligned with the FMRQ collective agreement and optimizes the wellbeing of residents on higher volume clinical rotations

Highlights of the year included the third annual Pediatrics resident and fellow graduation, the 8th annual joint “McGill University/Université de Montréal Pediatrics Resident and Fellow Research Day” that had a larger number of participants than in the past, demonstrating the increased interest in research among our residents, and an extremely productive and successful resident retreat focused on Quality Improvement and Patient Safety. We also had the pleasure of having one of our residents, Maria Psihogios, win the Dr. Ezra Lozinsky Prize recognizing a McGill resident who demonstrates outstanding qualities of compassion, understanding, and acceptance of responsibility for ongoing care.

The biggest challenge of the past year was the maintenance of adequate on-call coverage in all clinical units in the face of decreasing resident numbers. Unfortunately, the decline in resident numbers is expected to continue in coming years. Another significant challenge facing our residents is the continued severe limitations on pediatric fellowship opportunities within Quebec, although all our residents who applied for subspecialty training outside of Quebec were successful in obtaining positions.

FELLOWSHIP TRAINING PROGRAMS

The Department continues its commitment to support the training of international and local first-rate candidates who wish to pursue postgraduate training (research or clinical) in a pediatric specialty.

In 2017, the Department funded seven international medical graduates. The Alan Ross Academic Bursary Award funded two candidates in the Division of Allergy Immunology, and Dermatology. The Clinical Bursary Award in Pediatrics funded three candidates in the Divisions of Neonatal-Perinatal Medicine, Pediatric

Nephrology, and Pediatric Critical Care. The Department of Pediatrics Practice Plan also funded two candidates in the Division of Neonatal-Perinatal Medicine.

PEDIATRIC MEDICAL GRAND ROUNDS

The Pediatric Medical Grand Rounds is an accredited group learning activity as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada. Grand Rounds take place Wednesday mornings from September to June, for physician staff, residents and rotating medical students, who are requested to attend.

In 2017 the Department held 14 special lectureships, including the

47th Annual Alton Goldbloom Lecture, 12th Annual Charles R. Scriver Lectureship, 19th Annual Alan Ross Lecture, 30th Saul Usher Lectureship, and the 14th Annual Kenny Vineberg Pediatric Lectureship in Hematology-Oncology. The 2017 roster included 21 visiting speakers, and 13 local speakers.

A list of Pediatric Medical Grand Rounds may be viewed on the following link: <http://www.mcgill.ca/peds/grandrounds>.

SECTION III: INVOLVEMENT IN THE GLOBAL AND LOCAL COMMUNITY

The Global Child Health Program, established within the McGill Department of Pediatrics is coordinated by a multi-disciplinary committee wishing to broaden the Montreal Children's Hospital's involvement in global health activities. This program builds on the long-standing engagement and expertise in global health of members of the MCH and the Department of Pediatrics. In November 2017, the GCHP held its second annual Skills Conference, providing hands-on training for pediatric health care workers in preparation for work in resource-limited settings. The Department continues its close partnership with the Centre Hospitalier Université Kigali in Rwanda, particularly in the area of newborn care.

An exciting new initiative is Quebec's first hospital-based pro-bono legal clinic to address health relevant issues such as immigration/refugee status, income security, housing, custody.

SECTION IV: MILESTONES

NEW HIRES

The following individuals were appointed as Adjunct Professor:

- **Nagib Dahdah**, Division of Cardiology (September 2017)
- **Hélène Dubreuil**, Division of Neurology (October 2017)
- **David Dufresne**, Division of Neurology (October 2017)
- **Joaquim Miro**, Division of Cardiology (September 2017)
- **Emilie Riou**, Division of Neurology (October 2017)
- **Gaëlle Sadani**, Division of Neonatology (April 2017)

The following individuals were appointed as Faculty Lecturer:

- **Estelle Chetrit**, Division of General Pediatrics (September 2017)
- **Samuel Freeman**, Division of General Pediatrics (September 2017)
- **Tania Giannonne**, Division of General Pediatrics (September 2017)
- **Sabrina P. Jeanty**, Division of General Pediatrics (October 2017)
- **Maya A. Leitner**, Division of Adolescent Medicine (October 2017)
- **Anne-Claire Pâquet-De Varennes**, Division of General Pediatrics (October 2017)

- **Marie-Noël Primeau**, Division of Allergy, Immunology and Dermatology (April 2017)
- **Jessica Yeates**, Division of General Pediatrics (November 2017)

The following individuals were appointed as Assistant Professor

- **Gabriel Altit**, Division of Neonatology (September 2017)
- **Nurlan Davletbayev**, Division of Respiriology (December 2017)
- **Kenneth A. Myers**, Division of Neurology (September 2017)
- **Catherine Nolin**, Division of General Pediatrics (July 2017)
- **Nina Nouraeyan**, Division of Neonatology (JGH) (April 2017)
- **François Olivier**, Division of Neonatology (MCH) (July 2017)
- **Surabhi Rawal**, Division of Hematology-Oncology (November 2017)
- **Claudia Renaud**, Division of Cardiology (September 2017)
- **Aparna Suvrathan**, Division of Neurology (December 2017)

APPOINTMENTS

- **Ilana Bank** was appointed Lead of the Pediatric Simulation Centre and the Department's liaison to the Faculty of Medicine's Simulation Centre in January 2017.
- **Patricia Fontela** was appointed Associate Chair of Research in the Department of Pediatrics in September 2017.
- **Thérèse Perreault** was renewed as Division Director of Neonatology at the MUHC for a term of 5 years, starting November 2017.
- **Robert Sternszus** was appointed as the Program Director of the General Pediatric Residency Training Program starting June 2017.
- **Olivia Tse** was re-appointed as Associate Director of the General Pediatrics Residency Training Program in June 2017.

PROMOTIONS

The following individuals were promoted to the rank of Full Professor:

- **Saleem Razack**, Division of Pediatric Critical Care
- **Pramod Puligandla**, Division of Pediatric Critical Care (Joint- Pediatric Surgery)

The following individuals were promoted to the rank of Associate Professor:

- **Reza Alizadehfar**, Division of Allergy, Immunology and Dermatology
- **Gaëlle Chedeville**, Division of Rheumatology
- **Laurie Plotnick**, Division of Emergency Medicine
- **Pia Wintermark**, Division of Neonatology

SECTION V: HONOURS, AWARDS, AND PRIZES

Faculty members in the Department of Pediatrics received a number of awards and honours throughout 2017, including:

- **Ilana Bank** was honored with selection to the 2017-2018 Faculty Honour List for Education Excellence Dr. Bank also received an Award for Best Presentation for "A Trauma Patient's Journey: From Arrival to Disposition", at the Simulation Summit sponsored by the Royal College.
- **Moshe Ben-Shoshan** received the F. Estelle R. Simmons Award for Research from the Canadian Society of Allergy and Clinical Immunology.

- **Delphine Collin-Vezina** was appointed as the Department's Nicolas Steinmetz-Gilles Julien Chair in Social Pediatrics in the Community.
- **Ronald Gottesman** was appointed to the Department's Wendy MacDonald Chair in Pediatric Medical education.
- **Nada Jabado** was appointed as one of six researchers to the Governing Council of the CIHR.
- **Larry Lands** was honored with the 2017 Lifetime Achievement Award in Pediatric Respiratory Medicine from the Pediatric Assembly of Canadian Thoracic Society.
- **Stephen Liben** was awarded the 2017 Sub-Zero and Wolf Medical Award of Excellence from the Montreal Children's Hospital Foundation.
- **Annette Majnemer** was the recipient of the 2017 Pfizer Research Award of Excellence from the Montreal Children's Hospital Foundation.
- **Laurie Plotnick** was awarded a 2017 Canadian Association for Medical Education (CAME) Certificate of Merit Award.
- **Myriam Srouf** was the recipient of the 2017 Department of Neurology/Neurosurgery Clinical Teaching Award, given annually to a staff physician in recognition of their excellence in clinical teaching.
- **Robert Sternszus** was awarded the 2017 Paige and Bernard Kaplan Award in recognition of outstanding contributions as a clinical role model and teacher in the Department of Pediatrics, MCH.

Awards and honours for Faculty members are listed on the Department of Pediatrics website: www.mcgill.ca/peds/mission/awards