DEPARTMENT OF PEDIATRICS –
ACCOUNTABILITY REPORT FOR MCHF FUNDING RECEIVED IN 2016-2017

A. Pediatrician-in-chief – MUHC Stipend – Michael Shevell

Administrative responsibilities:
- Pediatrician-in-Chief, McGill University Health Centre (MCH) (2011- )
- Member (ex-officio) Council of Services for Children & Adolescents (2011- )
- Member (ex-officio) Montreal Children’s Hospital Foundation Board of Directors (2011- )
- Chairman (CEO), Pediatric Medical Group (PMG) and PMG Advisory Committee (2011-2016)
- Member (ex-officio) Executive Committee – Council of Physicians, Dentists and Pharmacists MCH (2011- )
- Member (ex-officio), Executive Budget Committee, Medical Service Staff Association (MSSA) (2011- )
- Member, MUHC Research Institute Management Committee (2015- )
- Member, MUHC Research Institute Council (2011- )
- Member, MUHC Qualifications Committee (2011- )
- Member, MUHC Medical Advisory Committee (2011- )
- Member, MUHC Mission Table (2011- )
- Member, MUHC Ambulatory Services Steering Committee (2013- )
- Member, MCH Executive Committee (2013- )
- Member, MCHF Ad-Hoc Search Committee [Executive Director] (2017)
- Member, MCH Building the Future of Excellence in Academic Childcare (2016- )

B. Researchers Post-Salary:

1) NANCY BRAVERMAN

Funding:
1. Braverman, Nancy – Associate Professor (Principal Applicant)
   “Observational (Retrospective) Natural History Study for Peroxisome Biogenesis Disorders”
   2016-2019 - Retrophin, Inc Academic Grant - $120,000 CAD
2. Braverman, Nancy – Associate Professor (Principal Applicant)
   “Translating Peroxisome Biogenesis Disorders: Identifying Pharmacological Therapies and Clinical Trial Endpoints”
   2016-2019 - Canadian Institutes of Health Research (CIHR) - $333,000 CAD

Publications:


Presentations

2. **Urea Cycle Disorders.** Academic Half Day, MUHC Department of Medical Genetics, March 3, 2016


Invitations (Visiting professor, Invited speaker, Etc)


2) **PAUL GOODYER**

Funding:

Publications:


Invitations (Visitation Professorship, Invited speaker, etc):

2. Invited Consultant, KDIGO consensus conference on Rare Disease, Amsterdam

3. Cystinosis Research Foundation, Nonsense mutation readthrough therapy in cystinosis” Newport Beach, CA

4. ERare Consortium, “Renal Progenitor Cell Therapy in Cystinosis, an update”. Barcelona
5. CHUM Research Symposium, Renal Progenitor Cell Therapy”, Montreal
6. Raptor Advisory Board speaker, “Diagnosis and presentation of cystinosis” Boston, MA

3) INDRA GUPTA

Funding:
1. Indra Gupta for her success in obtaining funding for her project “Paradigms in Branching Morphogenesis by NSERC – total $155,000 over 5 years”. (2016-2021, NSERC Operating Grant, PI: I. Gupta, Paradigms in Branching Morphogenesis, Awarded: $155,000)
2. 2016-2017, MCH Foundation New Directions Grant Competition, PI: A. Ryan (50%) and I. Gupta (50%), Title: Development of Novel Therapies for Kidney Stone Patients, Awarded: $50,000

Publications:

Invitations (Visitation Professorship, Invited speaker, etc):
1. Invited as speaker International Society of Pediatric Nephrology, September 2016, Iguacu, Brazil-declined for personal reason. “Vesico-ureteric reflux and reflux nephropathy”.

4) MICHAEL KRAMER

Funding:
1. Socioeconomic Position, Ethnocultural Background, and Perinatal Outcome in Canada. Canadian Institutes of Health Research, 2011-2016, $141,071/yr (Principal Investigator).

Publications:
4. Chen L-W, Tint M-T, Fortier MV, Aris IM, Bernard JY, Colega M, ... Lee YS. Maternal macronutrient intake during pregnancy is associated with neonatal abdominal adiposity:


20. Van Lee L, Tint MT, Aris IM, Quah PL, Fortier MV, Lee YS, ... Chong M F-F. Prospective associations of maternal betaine status with offspring weight and body composition at


Invitations (Visiting Professorship, Invited speaker, etc.):

5) LARRY LANDS

Funding:
1. Larry Lands who has received a Clinic Incentive grant (2016-2017) ($27,622) from the Cystic Fibrosis Canada.
2. (PI) Krieble Foundation, Translational Research Program in Cystic Fibrosis, $75,000 US, 1 year, 2016

Publications:

Presentations

6) BRUCE MAZER

Funding:
1. Principle Investigator BD Mazer, Co-investigators: J Fritz; M Divangahi.
   CIHR Transitional Operating Grant: Regulatory B-cells inhibit Allergic Airways Disease: Role of Semaphorin 4C.
   2015-2018 -- $700,757
2. Bruce D Mazer, Principal Investigator, Anne Clarke and Jean Marshal Co-PI’s and 12 co-investigators.
   CIHR Team Grant: Genes, Environment, and Tolerance: Food Allergy Clinical Tolerance Studies (Get-Facts), 2013-2018 -- $1,980,000
3. Allergen NCE Canadian Food Allergy Therapeutics Network.
   2012-2016 -- $89,000 per annum

Publications:


7) CHRISTINE McCUSKER

Funding:
1. Canadian Primary Immunodeficiency Evaluation Study - C-Primes: a cross-Canada initiative
   Principal Investigator: Christine McCusker
   2014-present Operating Funds CSL-Behring $25,000.00

2. GETFACTS: Genetics, Environment and Therapies: Food allergies clinical tolerance studies
   $1,960,605.00
   Principal Investigator: Dr B Mazer -- Amount awarded to Christine McCusker $100,000.00
   2014-present

3. US Department of Defense
   Discovery Prevention and Treatment of Food Allergy (USD) through STAT6-IP-Mediated Immunomodulation
   Principal Investigator: Christine McCusker
   2015-present - Award $290,000.00
4. Montreal Children’s Hospital Foundation
Allergies all around us?: Community Outreach and Education: Programs in allergic diseases for the general public, students, patients and health care providers.
Co-PI: Christine McCusker
2016-present -- $5000.00

Publications:


8) JESSE PAPENBURG (start-up funding support)

Funding:
1. Jesse Papenburg who successfully obtained funding as part of the Établissement de jeunes chercheurs cliniciens for his project: “Infections virales respiratoires sévères chez l’enfant: épidémiologie et optimisation de l’utilisation des outils diagnostics”.

Publications:


9) CONSTANTIN POLYCHRONAKOS

Funding:
1. Juvenile Diabetes Research Foundation, Clonal Genomics in Type 1 Diabetes, $110,000 (US), 2016/03-2017/02

2. The Memorail University of Newfoundland Service contract to establish an exome – sequencing pipeline. $40,000, 2016
Invitations (Visiting Professorship, Invited speaker, etc.):
1. How to write and submit a paper for an international journal, Course organized by the Chinese journal of General Practice, Beijing, May 2016.
3. How to write and submit a paper for an international journal, lecture given and the Maternal and Child Health Hospital, Xuzhou, China, November 2016.

10) ERNEST SEIDMAN

Funding:
1. Seidman EG (PI), Jon Wyse 2012 – present $90,000. Prospective Study on the Clinical Utility of Serum Biomarkers for Functional Bowel Disorders (IBS).
2. GRIFFITHS, Anne Marie; BENCHIMOL, Eric I; JACOBSON, Kevan; KAPLAN, Gilaad G; MACK, David R; MUISE, Alexio M; OTLEY, Anthony R; SEIDMAN, Ernest G; VALLANCE, Bruce A; WALTERS, Thomas D; WATERHOUSE, Christopher C; WINE, Eytan. (Principal investigators) CH.I.L.D-CIHR Inflammatory Bowel Disease Network. 2013-18; $503,031/yr -- $40,000/yr to MCH site. Canadian Children Inflammatory Bowel Disease Network.
4. Bitton A & Seidman EG (co-PIs) Promoting Access and Care through Centres of Excellence (PACE) network Montréal Centre: McGill University Health Centre (MUHC) Area of Focus: Quality indicators of care Funding: Crohn’s and Colitis Canada: 2016-21 20% of $2,500,000

Publications:
1. Kopylov U, Seidman EG. Predicting durable response or resistance to anti-TNF drugs in inflammatory bowel disease Therapeutic Advances in Gastroenterology 2016; 1-14
11) SAM SHEMIE

Funding:
   Continuous waveform analysis to improve prediction of time to death after withdrawal of life sustaining therapy in critically ill patients.
   2016---2018. $168,000.
2. Death Determination in Intensive Care: Multicenter Canadian Study in collaboration with the Canadian Critical Care Trials Group and Loeb Research Consortium:
   http://www.ddepict.com/ Senior Responsible Investigator
3. Dhanani S, Shemie SD, Ward R, Hornby L
   DEPPART Study--- Death Prediction and Physiology after Removal of Treatment
   A CIHR Canadian Transplant Network Research Program Grant
   2013-2017 $780,000.
4. Chair and Project Director. Potential Donor Identification and System Accountability,
   Canadian Blood Services in collaboration with the Canadian Resuscitation Outcome Consortium and Resuscitation in Motion.
   Canadian Blood Services- Canadian National Transplant Research Network.
   2015-2017. $80,000
5. Co-chair and Project Director. ECMO-CPR-Organ Donation project, Canadian Blood Services in collaboration with the Canadian Resuscitation Outcome Consortium and Resuscitation in Motion. Canadian Blood Services. $85,000. 2016-2018
6. Planning Meeting to Develop an Interdisciplinary Research Network for Extracorporeal Cardiopulmonary Resuscitation (ECPR) in Canada
   CIHR Meeting Grant 2016-17 $15,000.

Publications:

12) MICHAEL SHEVELL

Funding
1) The Canadian Cerebral Palsy Registry
   Kids Brain Health Foundation (NeuroDevNet Program Research Awards)
   M. Oskouii(PI), M, Shevell(PI)
   2015-2018 $301,800
2) CIHR Foundation Grant
   The Alberta Perinatal Stroke Program: Neuromodulation to Optimize Outcomes
   CA Kirton (PI), M Shevell (Co-I)
   2015-2022  $2,823,520

3) Research Foundation of the Cerebral Palsy Alliance (Australia)
   Genetic Insights into the Causes of Cerebral Palsy
   M. Oskoui (PI), M. Shevell
   2016-2019  $241,911

4) CIHR -- PROMPT Identification of Cerebral Palsy: Primary-care Referral of Motor-impaired children: Physician Tools
   Majnemer (PI), S Ahmed, J Andersen, H Bergman, A Bussieres, L Dagenais, VB Darsaklis, D Fehlings, A Kirton, P Li, R Rodriguez, M Shevell, K Shikako Thomas, L Snider, J Thibault (Co-I)
   2014-2018  $451,604

Publications

Chapters/Invited papers


**Invitations (Visiting Professorship, Invited speaker, etc.):**

1) February 2016 - Understanding Cerebral Palsy through a National Registry: Types, classification, comorbidities, correlates. 7th Child NeuroCon India. The Association of Child Neurology (AOCN) India. Lucknow, India -- Cancelled (death in family).


C. **Researchers Matching FRQS**:

**FONTELA PATRICIA**

**Funding**:
1. Patricia Fontela and Patricia Li (co-applicants)
   Evaluation of infection markers in children with severe bacterial infections (PI), CIHR – Institute of Human Development, Child, and Youth Health (CIHR – IHDCYH), $299,961 CAD
2. FRSQ – Subvention d’établissement de jeune chercheur (PI). $15,000.

**Publications**:
D. **Global Child Health Program (GCHP) Update**

1. **Clinical capacity building within the Department of Pediatrics, Centre Hospitalier Universitaire de Kigali (CHUK), Rwanda**

   a. **NICU training:** In October 2016, Dr Therese Perreault, the Head of Neonatology at the MCH, travelled to CHUK to meet with our partners and to complete a needs assessment of their Neonatal unit. Dr. Perreault identified a multitude of needs, one of the most pressing being infection control improvements as hospital-acquired multidrug resistant infections are a frequent cause of mortality among babies in the unit. Next steps include bringing a senior pediatric resident from CHUK to the MCH for further training in Neonatology and Infection control, and implementing a quality improvement project in antibiotic stewardship.

   b. **Nursing partnership:** In October 2016, Elissa Remmer, the MCH NICU nursing educator travelled to CHUK to meet with our partners and to complete a needs assessment of their nursing department. She identified several needs, including training a nurse as a nursing educator to teach skills related to acute care and infection control. Next steps include bringing the Head of Pediatric Nursing at CHUK for a visit at the MCH, and providing training for a nurse at CHUK to become a nursing educator.

   c. **Pediatric Conference at CHUK in 2017:** The GCHP is helping our partner site at CHUK organize a conference for Fall 2017. Several health care professionals from the MCH will likely travel and present at this conference. In addition, we may help organize a second MicroResearch Workshop, following the successful one held in February 2016.

   d. **Teleconferencing:** The GCHP will purchase teleconferencing equipment for CHUK so that we can hold regular, 1-2 monthly, medical education exchanges, and collaborate more effectively on research projects.

2. **Global Child Health education, McGill**

   a. **Advanced Curriculum in Pediatric Global Health:** The Advanced Curriculum in Pediatric Global Health is a multi- and inter-disciplinary course that is now in its 4th year. The 2-year curriculum provides advanced teaching on a broad range of pediatric global health topics, through monthly evening didactic sessions with invited speakers and group work. The course is currently being attended by a diverse group of forty nurses, pediatric and family medicine residents from the MCH, the HSJ and other health care facilities in Montreal. In addition, it is being made available via teleconference to pediatric residents at CHEO in Ottawa.

   b. **Pediatric Global Health Skills conference:** As part of its educational mandate, the GCHP held a 2-day skills conference in June 2016. The sessions offered included Helping Babies Breathe (HBB), Emergency Triage Assessment and Treatment (ETAT) and a Post-travel debriefing workshop. This conference supplemented the GCHP’s advanced curriculum by teaching practical skills not taught in didactic lectures. The GCHP is organizing a second annual Pediatric Global Health Skills Conference in Fall of 2017. Possible sessions include Pediatric Ultrasound for Global Health, HBB and several sessions on practical skills needed in global health sessions. This would be a 2 to 3-day conference. Maximum number of participants per session would be 20.

   c. **Community Education sessions:** The GCHP hopes to expand the MCH’s community’s access to Global Health education and raise awareness of global health issues and needs. The GCHP helped organize the Hillman Lectureship in Global Health for the MCH Grand Rounds in January 2017. In addition, it has organized two other global health-related lectures open to
the MCH community in December 2016 and January 2017. The GCHP plans to organize several more such sessions in the remainder of the 2017.

d. **Pediatric resident electives**: The GCHP helps organize Global Health electives for pediatric residents. A senior pediatric resident will complete an elective at CHUK in May 2017, and another will complete an elective at a pediatric hospital in Haiti in August 2017.
E. Social Pediatrics Program Report of Activity

The Social Pediatrics Training Program continues to be a Leader in the Training of medical students and residents in Canada. The past year has seen significant evolution of the Training program, with

1. Increased popularity and visibility of the Social Pediatrics Training program across Québec and Canada as evidenced by a significant increase in number of applicants to the Social Pediatrics Elective.
2. Royal College of Physicians and Surgeons of Canada recognition of the importance of Social Pediatrics training for all Pediatrics residents across Canada. The rotation became a mandatory part of the training of all Pediatrics residents in 2016. McGill has been visionary, as this rotation has been mandatory for all Pediatric residents since 2003. The Training Program, Objectives, and ITERS were updated to be in line with the new Royal College requirements.
3. Expansion of the Training program to include Visa sponsored trainees.
4. Increased numbers of trainees over the past year, now accommodating 1-3 trainees per block.
5. Expansion of the Social Pediatrics Training program by adding new sites (at present, over 50 community based sites, and over 10 hospital based sites), supervisors, resources, and curriculum development for medical students, residents and fellows. Expansion of sites continues to allow for wide variety and flexibility of choice of areas to obtain clinical training (tailored to the interest and specific goals of each trainee).
6. Ongoing feedback from trainees incorporated into the continuous improvement of the program.
7. Resident and student initiated Advocacy projects.
8. Outreach (trainee as the teacher) to the community eg YMCA (refugee program), and Mères avec Pouvoir (added 2016).
9. Excellent core group of teachers, covering key subject areas (Ethics, Youth Protection, Child Maltreatment, Literacy, Sociocultural, Physician Health). New collaboration with the office of Sociocultural Consultation and Interpretation Services (including Homelessness initiative, and Equity and Inclusion Teaching sessions for trainees).
10. Successful application, government funding (through the formation complémentaire) for Social Pediatrics Fellow training.
11. Preparation and successful presentation of Social Pediatrics Fellowship report to the Residency Training Committee, Residency Program Directors, the Advanced Pediatrics Training Committee, and the Associate Dean of McGill Postgraduate Medical Education.
F. **Fellowships And Tuition Subsidies**

The following Fellows received financial support:

- Dr Altit, Fellow in Neonatology & Respiratory Medicine
- Dr Dotan, Fellow in Hematology/Oncology
- Dr Migowa, Fellow in Rheumatology
- Dr Fontana, Fellow in Pediatric Emergency Medicine
- Dr Kuwabara, Fellow in Pediatric Intensive Care Unit
- Dr Imbroise, Fellow in Neonatology and Respiratory Medicine

Respectfully submitted,

Michael Shevell, MDCM, FRCPC, FCAHS
Chairman, Department of Pediatrics, McGill University
Pediatrician-in-Chief, Montreal Children’s Hospital, MUHC
June 2017