



Hôpital général juif  
Jewish General Hospital

**ANNUAL REPORT**

**DIVISION OF GERIATRIC MEDICINE**

**JEWISH GENERAL HOSPITAL**

**January 1 – December 31, 2014**

**Ruby Friedman, M.D.**  
**Site Director**

**José A. Morais, MD, FRCPC**  
**Director**  
**McGill Division of Geriatric Medicine**

**March 2015**



HÔPITAL D'ENSEIGNEMENT  
DE L'UNIVERSITÉ MCGILL | A MCGILL UNIVERSITY  
TEACHING HOSPITAL

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**Annual Report**  
**Division of Geriatric Medicine**  
**Department of Medicine - Jewish General Hospital**  
**January 1 - December 31, 2014**

**SUMMARY**

We continue to fulfill the mandate of 1) delivering high-quality care to our elderly patients, 2) providing excellent teaching milieu to medical students and residents, 3) performing relevant clinical research on aging by our division members and 4) innovating in services to the elderly population. We are particularly proud of the achievements in reducing waiting time to access our outpatient services and the success so far of the Elderly Friendly Hospital implementation program at the JGH (*Approche adaptée pour personnes âgées, AAPA*).

The Division of Geriatric Medicine continues to respond to the increasing demands for clinical services. The Division's areas of clinical activities include the Geriatric's Ward 6NW, the outpatient Geriatric Assessment Unit, Memory Clinic, Senior Oncology Clinic, the Geriatric Consultation Services in the Emergency Room, and in the hospital. To improve the efficiency of the Division's many activities, we have assigned a physician coordinator for each of them. Thus for the 6NW Ward, the Medical Director will remain Dr. Ruby Friedman; for consultation services, Dr. Paul Heilpern; for out-patient clinics, Dr. Sanda Popescu; for Memory Clinic, Dr. Susan Vaitekunas and Dr. Howard Chertkow (Neurology). The Division continues to be jointly run by Dr. Ruby Friedman, JGH Site Director, and by Dr. José A. Morais, Director, McGill Division of Geriatric Medicine.

The implementation in 2015 of Bill 10 and Bill 20 will result in major changes across the healthcare system. Division members sit on several committees in the hospital and at McGill that are dealing with these issues. With regards to Bill 10 and the realignment of healthcare institutions, the Division of Geriatrics is well positioned. Division members already have cross-appointments to several of the institutions in the newly formed *Centre intégré universitaire de santé et de services sociaux (CIUSSS) du Centre-Ouest-de-l'Île-de Montréal* (Maimonides Hospital, Jewish Eldercare, CSSS Cavendish). The implications of Bill 20 are not known at this time.

**1. Research and publications:**

A major development this year was the designation of the Jewish General Hospital and the Division of Geriatrics to be the coordinating site for the Canadian Consortium on Neurodegeneration in Aging (CCNA). The CCNA is under the guidance of Dr. Howard Chertkow. The goal of the program is to unite the clinical/research teams on neuro-cognitive disorders across Canada.

Research in neurobiology and dementia, health services, frailty, pharmacoepidemiology, long term care, and education continue to represent the existing strengths of the Division with programs that cross hospital, department and university lines and in some cases integrate bench-to-bedside-to population. Oncology and older persons, as well as empowering primary care to

manage elderly patient with chronic diseases are emerging interests. There is increasing collaboration with colleagues from Quebec, Canada and internationally. Members of the Division lead major research programs with funding from the Canadian Institutes on Health Research (CIHR) and the Fonds de la recherche du Québec – Santé (FRQS). The list of publications and grants for our Divisions members are included in Section II.

## **2. Teaching and learning (undergraduate and graduate):**

*Number of degrees awarded; particular initiatives and achievements and innovations related to teaching programs; initiatives with respect to graduate supervision; and extraordinary student success stories should be included.*

Geriatrics is a mandatory rotation during the 4<sup>th</sup> year of medical clerkship and the JGH alone receives half of the medical students. This year, we had 2 residents in the Geriatric Fellowship program and in the Care of the Elderly Program (Family Medicine stream) rotating at the JGH. We also have many Internal Medicine and Family Medicine residents spending a month rotating in the Division. The student evaluations have been very good to excellent and an increasing number of students have expressed interest in geriatric medicine as a career. Those of the Residents are also very positive. These positive evaluations are a testimony to the hard work and dedication of all the teachers in our Division. An annual Prize is given to a Medical Student with a superior performance in the rotation during the Graduation Day in May of each year.

## **3. Involvement in the community:**

The Division had a very successful public lecture, the Goldie Raymer Memorial Lecture on September 9, 2014. The topic was *Parenting Your Parents*. Over 300 people attended and there was widespread coverage in local newspapers and on radio.

The McGill Division of Geriatrics held 5 Grand Rounds that are open to public as well as to physicians of all backgrounds and allied health professionals. Half of these conferences took place at the JGH. Some of our physicians act as consultants at Long Term Care Institutions and Rehabilitation Centers of the CSSS Cavendish and de la Montagne.

## **4. Partnerships:**

At the level of the JGH, we are working with the Departments of Nursing and Social Services in the implementation of the Approche adaptée à la personne âgée (AAPA). We are collaborating with the Department of Family Medicine, as part of the provincial Plan Alzheimer, to implement a memory clinic in their UMF/GMF. The Division works also in partnership with the Solidage Research Group (Dr. Johanne Monette, co-director) to innovate in the services and care to elderly patients.

At the level of the RUIS McGill, several members of the Division participate in the Subcommittee of Aging and the Centre d'Excellence in Aging and Chronic Disease to assist in their orientations and to collaborate in projects.

At the provincial level, we are also participating in the orientation of the MSSS-Table Nationale of Aging to improve the services and care to elderly patients and the Working group on the Implementation on the provincial Alzheimer Plan.

## **5. Milestones:**

A major development this year has been the introduction of the Approche adaptée à la personne âgée (AAPA). This is a hospital wide program to introduce principles of geriatric care on all units. The main focus of this program is on delirium diagnosis and management, mobility and nutrition. Dr. Ruby Friedman is co-chair along with Judy Bianco (Director of Nursing for Medicine and Geriatrics), Sonia Joly (Nursing), and Maxine Lithwick (Director of Social Services). A large dedicated multidisciplinary team has played a leading role in the introduction of this Program. We have been recognized by the Agence de Montréal to be leaders in the implementation of this Program that could be the most advanced in its introduction onto the clinical wards of any hospital on the island of Montréal.

The Geriatric Ward 6 NW is a fully renovated 32-bed unit which incorporates the principles of an “elderly friendly hospital”. The great concern in previous years was the increasing length of stay of patients on the Ward. This was mostly attributed to inefficiencies in the Program 68 placement process. This year we have seen a marked improvement in this process, now called PHPE for Programme d’Hébergement pour Évaluation. Dr. Friedman continues to work closely with nursing administration and the director of social service to ensure the functioning of this program.

In response to the increasing request from the community, the hospital and the Emergency Room, the Outpatient Geriatric Clinics have markedly reduced waiting times for patient evaluation. The Outpatient Clinics include the Geriatric Assessment Unit, the Memory Clinic, and the Senior Oncology Clinic. The waiting period for new requests for consultation has been reduced to 2-4 weeks. Furthermore, the Rapid Response Clinic has been established whereby patients who require urgent follow-up from the Emergency Room, or are post-discharge, can be evaluated within days (See Appendix 1 for stats).

In the past year, the Geriatric consultation services in the Emergency Room and for the hospital Wards have been reorganized. For hospital ward consultations, 90% are completed within 48 hours. A similar percentage is achieved for ER consultations but within 24 hours.

## **6. New hires, promotions, and retirements:**

The Division welcomes 2 new attending physicians, Dr. Elise Levinoff and Dr. Haibin Yin.

Dr. Yin will also assist in the implementation of the AAPA in the ER. He provides valuable links to the Herzl Family Practice Centre and Primary Care. He also provides primary care for the orthopedics ward.

Dr. Levinoff has a special interest in cognitive disorders. Pilot studies are underway with the Division of orthopedics assessing hip fracture patients for delirium. Dr. Levinoff is also a

geriatric consultant for the Jewish Eldercare Hospital.

The Division is also most pleased to announce the arrival of Dr. Olivier Beauchet in August 2015. Dr. Beauchet is an experienced physician with a background in Internal Medicine and Geriatrics. He is currently residing in Paris, France where he is Head of the Division of Geriatric Medicine, and Director of the University Memory Clinic in the Department of Neuroscience, Angers University Hospital. His area of clinical expertise and research is in the field of cognition and gait disorders.

## **7. Honours, awards, and prizes:**

*Chertkow, Howard*

Elected to The Canadian Academy of Health Sciences

JGH Award for Excellence in Psychosocial or Clinical Research

## **8. Fundraising: N/A**

## **SECTION I - DIVISION STATUS UPDATE**

### **1. Mission and objectives of the Division**

The Mission of the Division is to provide comprehensive, compassionate, client-centered care to frail older persons and their caregivers to enhance their health and quality of life.

Our objectives are:

- To provide exemplary geriatrics comprehensive assessment, consultation and direct care to our inpatient and outpatient elderly population
- to provide excellent education and training of students and residents to enhance their capacity to take care of future older persons
- to provide leadership in ongoing research to advance knowledge of aging and aging related diseases and their management

### **2. A nominative list of academic staff, their academic rank**

Dr. José Morais, Director, McGill Div. of Geriatric Medicine, Associate Professor, Active  
Dr. Ruby Friedman, Site Director, JGH, Div of Geriatric Medicine, Associate Professor, Active  
Dr. Sanda Popescu-Crainic, Active  
Dr. Howard Bergman, Professor, Active  
Dr. Johanne Monette, Assistant Professor, Active  
Dr. Gillian Fisher, Faculty Lecturer, Active  
Dr. Susan Gold, Assistant Professor, Active  
Dr. Elise Levinoff, Assistant Professor, Active  
Dr. Paul Heilpern, Faculty Lecturer, Active

Dr. Nacera Belkous, Faculty Lecturer, Active  
Dr. Susan Vaitekunas, Faculty Lecturer, Active  
Dr. Haibin Yin, Faculty Lecturer, Active

### **Associate Members**

Dr. Yves Bacher, Active  
Dr. Catherine Brodeur, Active  
Dr. Howard Chertkow, Professor, Active  
Dr. Francine Gaba, Active  
Dr. Gary Inglis, Active  
Dr. Andréa Leblanc, Active  
Dr. Ziad Nasreddine, Active  
Dr. Hyman Schipper, Active  
Dr. Doreen Wan-Chow-Wah, Active

## **SECTION II - GRANTS, PUBLICATIONS, AND SERVICE OUTSIDE OF MCGILL**

### **1. Grants and awards received**

#### ***Bergman, Howard***

Canadian Longitudinal Study on Aging (CLSA)-Mobility Initiative (CMI) – An Emerging Team in Mobility in Aging. Raina P, Kirkland S, Wolfson C (PI's). Bergman H et al (co-applicants). Canadian Institutes of Health Research. \$1,487,100 (\$247,850/year). 2008-2014

Canadian Longitudinal Study on Aging. Raina P, Kirkland S, Wolfson C. Bergman H et al (co-applicants). Canadian Institutes of Health Research. \$23,500. 2009-2014

Measurement of Frailty to identify high-risk elderly patients referred for surgical and transcatheter aortic valve replacement. Afilalo J (PI), Bergman H, Morais J, Perrault L, Popma J, Cabau R, Shahian D. CIHR. \$360,000. 2012-2016

Projet de développement stratégique innovant - Optimisation de la valeur des soins aux patients par une organisation agile du système hospitalier. Institut Lady-Davis de l'HGJ : Béland F (PI). Bergman H (co-investigator) in 2 themes: Quality of Care; Clinical and management decision processes. FRQS. \$1,400,000 (\$350,000/year). 2012-2016

Processes of Cancer Treatment Decision Making Among Older Men and Women with Colorectal Cancer. Strohschein FJ (PI), Loiselle CG, Bergman H, Schreiber RS, Botorff JL (co-applicants). Oncology Nursing Society Foundation Small Research Grant. \$24,212. 2013-2015

Plan d'action ministériel sur les troubles cognitifs liés au vieillissement : une évaluation de l'implantation et des résultats des projets initiaux en vue d'une généralisation progressive au Québec. Vedel I (PI), Couturier Y, Aubin M, Kaczorowski J, Bergman H, Haggerty J, Rodriguez

C, Fortin M, Kroger E, Borgès Da Silva R (co-investigators). Fonds Pfizer-FRQS-MSSS. \$500,000. 2013-2015

PROMPT Identification of Cerebral Palsy: Primary-care Referral Of Motor-impaired children: Physician Tools. Majnemer A (PI), Fehlings D, Radzioch Guerin A, Ahmed S, Bergman H, Bussieres A, Dagenais L, et al (co-applicants). CIHR. Knowledge Translation Research Committee. \$330,576. (\$82,644/year). 2014-2018

Assessing care models implemented in primary health care for persons with Alzheimer's disease and related disorders. Canadian Team for Healthcare Services/System for Improvement in Dementia Care/Canadian Consortium on Neurodegenerative Disease of Aging (CCNA). Bergman H & Vedel I (PI), et al. CIHR. \$1,200,000. 2014-2019

***Chertkow, Howard***

Virtual reality based spatial memory intervention for patients with Mild Cognitive Impairment. Bohbot V (P.I.), Bherer L, Chertkow H, Gauthier S, Lerch J, Rajah M. CIHR. \$197,225.00/year. 2012-16

Anomia in Alzheimer's Disease: Untangling semantic components and delivering therapy with rTMS. Chertkow H (P.I.), Soucy J, Thiel A. CIHR. \$153,300/year. 2012-15

The impact of beta-amyloid burden on cognition in normal aging. Joubert S (P.I.), Bocti C, Chertkow H, Holcroft C. CIHR. \$645,866. 2012-17

Comparing the nature and evolution of Mild Cognitive Impairments in individuals with and without Parkinson's disease. Monchi, O. (P.I.), Belleville S, Chertkow H, Lafontaine AL, Collins DL. CIHR. \$753,540.00. 2013-18

Circulating Blood-Based Diagnostic for Mild Cognitive Impaired Victims. Wang, E. (P.I.), Chertkow H, Schipper H. National Institute on Aging, National Institutes of Health, USA, Small Business Innovation Research Program. \$151,531.00. 2014-15

Development and validation of salivary tau as a biomarker for early Alzheimer's Disease. Chertkow, H. (P.I.), Paudel H, Schipper H & Gornitsky M. The W. Garfield Weston Foundation. \$149,745.00. 2014-15

Canadian Consortium on Neurodegeneration in Aging (CCNA). Chertkow, H. (Scientific Director). CIHR and Partners. 34.5 million/5 years. 2014-2019

***LeBlanc, Andréa***

Molecular Mechanisms of Neuro Degeneration in Alzheimer Disease. Andréa LeBlanc (PI). Leaders Opportunity Fund, Canadian Foundation for Innovation. \$586,000. 2009-2014

Regulation of prion protein expression, trafficking, and function. Andréa LeBlanc (PI). CIHR. \$689,580. 2010-2015.

Role of caspases in human neuronal cell death and in Alzheimer's disease. operating grant. Andréa LeBlanc (PI). CIHR (renewal of MOP-81146) \$781,294=\$156,256/year (Ranked 1<sup>st</sup>) 2011-2016

FRSQ-Pfizer Consortium Québécois de la Recherche sur la maladie Alzheimer au Québec (CIMA-Q) Co-Principal Investigator: Andréa LeBlanc \$2,500,000. 2013-2016

***Monette, Johanne***

RADAR: A new screening tool to improve the recognition of delirium among older persons. Champoux N & Voyer P (PI), Desrosiers J, Hottin P, Landreville P, Mccusker J, Monette J, Savoie ML. CIHR. \$424,631. 2010-2014

Utilisation des services médicaux d'urgence et hospitaliers chez la clientèle âgée de 75 ans et plus. Quel est l'impact de l'accès aux ressources médicales et communautaires de première ligne. Afilalo M & Vedel I (PI), Grad R, Monette J. FRSQ. \$260,213. 2011-2014

Implantation d'une intervention visant à optimiser la médication pour les patients atteints d'une démence avancée: un projet pilote. Edeltraut K & Wilchesky M (PI), Arcand M, Durand P, Aubin M, Voyer P, Monette J, Champoux N, Verreault R & Marcotte M. Total amount: \$45,000 (RQRV \$30,000, CEVQ \$15,000) 2013-2014

***Morais, José A.***

Provincial Network Funding Program to the Quebec Network for Research on Aging (RQRV). Gaudreau P & Morais J.A. (CO-PI), Co-applicants: 15 researchers from various Quebec institutions. FRQS. \$900,000/yr. 2012-2016

Investigation of key metabolic biomarkers as predictors of cognitive decline in elderly individuals in the NutCog Study. Ferland G (PI), Co-applicants: Morais JA, Shatenstein B, Greenwood C. FRQS – RQRV. \$15,000. 2014-2015

Effet d'une supplémentation en citrulline sur la fonction musculaire et les capacités fonctionnelles chez des femmes ménopausées obèses-sarcopéniques. PI : Aubertin-Leheudre M. Co-applicants : Chevalier S, Gaudreau P, Morais J, Gouspillou G, Noirez P. FRQS – RQRV. \$15,000. 2014-2015

Rôle de l'apport en produit laitiers des personnes âgées sur l'expression de gènes impliqués dans l'inflammation : une étude nutriginomique. Chevalier S (PI), Co-applicants : Morais JA, Gaudreau P, Payette H, Shatenstein B. FRQS – RQRV. \$15,000. 2014-2015

Dairy Intakes of Older Adults of the NuAge Longitudinal Study: Impact on Body Weight and Composition, Physical and Cognitive Function and Metabolic Profile. Chevalier S (PI), Co-applicants: Morais JA, Payette H, Shatenstein B, Gaudreau P. Dairy Farmers of Canada. \$109,600. 2013-2015

Hypohydratation: Évaluation et comparaison de ses effets sur la force, la puissance et



l'endurance musculaire chez des personnes jeunes et âgées. Goulet E (PI), Co-applicants: Morais JA. FRQS – RQRV. \$15,000. 2013-2014

Measurement of Frailty to Identify High-Risk Elderly Patients Referred for Surgical and Transcatheter Aortic Valve Replacement. Afilalo J (PI), Co-investigators: Morais JA, Bergman H, Perrault L, Popma J, Rodes Cabau J, Shahian D. CIHR. \$115,351/y. 2012-2016

***Schipper, Hyman***

Role of heme oxygenase-1 in aging and parkinsonian neural tissues (III). Schipper H (PI). CIHR. \$753,920. 2013-2018

Effects of deferiprone on brain iron deposition and Parkinsonian features in GFAP.HMOX1 transgenic mice. Schipper H (PI). Apopharma Inc. \$77,237. 2013-2014

Development and validation of salivary tau as a biomarker for early Alzheimer's disease. Chertkow H, Paudel H, Gornitsky M, Schipper H. Weston Brain Institute. \$149,000. 2014-2015

Immunocal® prophylaxis in the GFAP.HMOX1 mouse model of neurodevelopmental and neurodegenerative disorders-Phase 2. Schipper H (PI). Immunotec Inc. \$71,426. 2014-2015

Alzheimer Research Centre IV & JGH Alzheimer Risk Assessment Clinic IV. Mary Katz Claman Foundation. \$85,000. 2014-2015

**2. Scholarly works published in the 2014 calendar year**

**Publications**

***Bergman, Howard***

De Stampa M, Vedel I, Buyck JF, Lapointe L, Bergman H, Beland F and Ankri J. Impact on Hospital admissions of an integrated primary care model for very frail elderly. Archives of Gerontology and Geriatrics. 2014 May-Jun; 58(3):350-5. doi: 10.1016/j.archger.2014.01.005. Epub 2014 Jan 18

Kuh D, Karunanathan S, Bergman H and Cooper R. A life course approach to healthy ageing: maintaining physical capability. Proceedings of Nutrition Society. 2014 May; 73(2):237-48. doi: 10.1017/S0029665113003923. Epub 2014 Jan 23

Moore A, Patterson C, Lee L, Vedel I, Bergman H. Fourth Canadian Consensus Conference on the Diagnosis and Treatment of Dementia. Recommendations for family physicians. Canadian Family Physician. 2014 May; 60(5):433-438

Bartlett G, Rahimzadeh V, Longo C, Orlando C, Dawes M, Lachaine J, Bochud M, Paccaud F, Bergman H, Crimi L, Issa AM. The future of genomic testing in primary care: the changing face of personalized medicine. Personalized Medicine. 2014 May; 11(5):477-486 doi: 10.2217/pme.14.36

***Chertkow, Howard***

Bhatnagar,S., Chertkow, H., Schipper, H., Shetty, V., Zongfei, Y., Jones, T., Jenkins, S., & Wang, E. (2014). Increased 1 microRNA-34c abundance in Alzheimer's disease circulating blood plasma. *Frontiers in Molecular Neuroscienc.* doi: 10.3389/fnmol.2014.00002

Kertesz,A., Finger, E., Murrell, J., Chertkow, H., Ang, Lee C., Baker, M.C., Ravenscroft, T., Rademakers, R. Munoz, D. G. (2014). Progressive Supranuclear Palsy in a family with TDP-43 pathology. *Neurocase.* doi: 10.1080/13554794.2013.878729. PMID: 24479957. Apr;21(2):178-84.

Freedman, M., Alladi, S., Chertkow, H., Bialystok, E. Fergus, I.M., Phillips, N.A., et al. Delaying Onset of Dementia: Are Two Languages Enough? (2014) *Behavioural Neurology*, <http://dx.doi.org/10.1155/2014/808137>.

Newman, D., Cummings, B-A., Chertkow, H., Fraser, S. & Bergman, S. (2014). High incidence of preoperative Mild Cognitive Impairment in elderly surgical patients. *Canadian Journal of General Internal Medicine*, 9(1), 21-25.

***LeBlanc, Andrea***

LeBlanc AC, Ramcharitar J, Afonso V, Hamel E, Bennett DA, Pakavathkumar P, Albrecht S: Caspase-6 activity in the CA1 region of the hippocampus induces age-dependent memory impairment in mice and men. *Cell Death and Differentiation*, 696-706, 2014 IF: 8.4

Sokolowski JD, Gamage KK, Heffron DS, LeBlanc AC, Deppmann CD, Mandell JW: Caspase-mediated cleavage of actin and tubulin is a common feature and sensitive marker of axonal degeneration in neural development and injury. *Acta Neuropathologica Communications* 2: 16, 2014. IF: none yet

Foveau, B, Beauchemin, N, Ursini-Siegel, J, LeBlanc, AC. Inflammation induced tumorigenesis in the colon is not dependent on Caspase-6 *PLoS One* 2014 Dec 3;9(12):e114270. doi: 10.1371/journal.pone.0114270. IF: 3.5

***Monette, Johanne***

Cole M, McCusker J, Voyer P, Monette J, Champoux N, Ciampi A, Belzile E and Vu TTM. Core Symptoms Not Meeting Criteria for Delirium are Associated with Cognitive and Functional Impairment and Mood and Behaviour Problems in Older Long-Term Care Residents. *International Psychogeriatrics*. 2014. Volume 26 / Issue 07 / July 2014, pp 1181-1189. doi: 10.1017/S1041610214000313. Published online: 13 March 2014

Kergoat H, Boisjoly H, Freeman E, Kergoat MJ, Monette J and Roy S. The perceived needs and availability of eye care services for older adults in long-term care facilities. *Canadian Geriatrics Journal*. 2014 Sep 5;17(3):108-13. doi: 10.5770/cgj.17.116. eCollection 2014.

Puts MTE, Tapscott B, Fitch M, Howell D, Monette J, Wan-Chow-Wah D, Krzyzanowska M, Leighl NB, Springall E, Alibhai SM. A systematic review of factors influencing older adults' decision to accept or decline cancer treatment. *Cancer Treatment Reviews*. 2014 Dec. 26.

doi.org/10.1016/j.ctrv.2014.12.010

***Morais, José***

Rahi B, Morais JA, Dionne IJ, Gaudreau P, Payette H, Shatenstein B. The combined effects of diet quality and physical activity on maintenance of muscle strength among diabetic older adults from the NuAge cohort. *Experimental Gerontology* 2014;49:40-46. DOI information: 10.1016/j.exger.2013.11.002

Gaudreau P, Morais JA. Le Réseau québécois de recherche sur le vieillissement: vous connaissez? (Editorial) *Médecine Sci Amérique*. 2014; vol2, no.3:10-13.

Gray-Donald K, St-Arnauld McKenzie D, Gaudreau P, Morais JA, Shatenstein B, Payette H. Protein Intake Protects against Weight Loss in Healthy Community-Dwelling Older Adults *J Nutr*. 2014 Mar;144(3):321-6. doi: 10.3945/jn.113.184705.

Vigano AL, Di Tomasso J, Kilgour RD, Trutschnigg B, Lucar E, Morais JA, Borod M. The abridged Patient-Generated Subjective Global Assessment is a useful tool for early detection and characterization of cancer cachexia. *J Acad Nutr Diet*. 2014 Jan 23. pii: S2212-2672(13)01548-7. doi: 10.1016/j.jand.2013.09.027

Matta J, Mayo N, Dionne IJ, Gaudreau P, Fulop T, Tessier D, Gray-Donald K, Shatenstein B, Scott S, Morais JA. Interrelated factors favoring physical performance and activity in older adults from the NuAge cohort study. *Exp Gerontol* 2014;55:37-43. DOI: 10.1016/j.exger.2014.03.013

Rahi B, Morais JA, Gaudreau P, Payette H, Shatenstein B. Decline in functional capacity is unaffected by diet quality alone or in combination with physical activity among generally healthy older adults with T2D from the NuAge cohort. *Diabetes Res Clin Pract*. 2014 Sep;105(3):399-407. doi: 10.1016/j.diabres.2014.07.008.

Gouspillou G, Sgarioto N, Norris B, Aubertin-Leuheadre M, Morais JA, Burelle Y, Taivassalo T, Hepple RT. The relationship between muscle fiber type-specific PGC-1 $\alpha$  content and mitochondrial content varies between rodent models and humans. *PLoS One*. 2014 Aug 14;9(8):e103044. doi: 10.1371/journal.pone.0103044. eCollection 2014.

***Schipper, Hyman***

Song W, Zukor H, Liberman A, Kaduri S, Arvanitakis Z, Bennett DA, Schipper HM. Astroglial heme oxygenase-1 and the origin of corpora amylacea in aging and degenerating neural tissues. *Exp Neurol* 254: 78–89, 2014.

Bhatnagar S, Chertkow H, Schipper HM, Shetty V, Yuan Z, Jones T, Jenkins S, Wang E. Increased microRNA-34c abundance in Alzheimer's disease circulating blood plasma. *Front Molec Neurosci*, 7:2. doi:10.3389/fnmol.2014.00002, 2014.

Gupta A, Lacoste B, Paul J, Pistel PJ, Ingram DK, Hamel E, Alaoui-Jamali MA, Szarek WA, Vlahakis JZ, Jie S, Song W, Schipper HM. Neurotherapeutic effects of novel HO-1 inhibitors in

vitro and in a transgenic mouse model of Alzheimer's disease. *J Neurochem*, 10.1111/jnc.12927, 2014.

Hascalovici JR, Song W, Liberman A, Vaya J, Khatib S, Holcroft C, Laferla F, Schipper HM. Neural HO-1/sterol interactions in vivo: Implications for Alzheimer's disease. *Neurosci* 280: 40-49, 2014.

Schipper HM, Gupta A, Szarek W. Ch. 10: Glial HO-1 suppression as a neuroprotective strategy in Alzheimer disease. In: Lehiri (Ed.), *Advances in Alzheimer Research Vol. 2: Bentham Science Publishers, Oak Park, IL, 2014; pp. 214-229.*

Schipper HM, Jay CA, Abrams GM. Sex hormone, pituitary, parathyroid, and adrenal disorders and the nervous system. In Aminoff MJ, Josephson SA (eds.): *Aminoff's Neurology and General Medicine, 5th ed., Academic press, San Diego, Ch. 20, pp. 369-397, 2014.*

Hascalovici J, Schipper HM. Heme oxygenase-1: Transducer of sterol dys-regulation in Alzheimer disease. *J Glycomics Lipidomics* 4: 124. doi: 10.4172/2153-0637.1000124, 2014.

### **Abstracts published or presented**

#### ***Bergman, Howard***

Lacombe G, Azuelos E, Thorn K & Bergman H. Planification du curriculum de transferts des compétences dans le développement des réseaux cliniques de mémoire avec les groupes de médecine familiale au Québec. 10ieme Congres International Francophone de Gérontologie et Gériatrie. Gériatrie et Psychologie Neuropsychiatrie du Vieillessement. Palais des Congres. Liege, Belgique. Volume 12, Volume 12, Supplément 1, Mai 2014, P 276.

#### ***Chertkow, Howard***

Roncero, C., Chertkow, H., Malus, M, Probst, S., Pilon, R., & Solomon, S. Symptoms and brain areas: Predicting patients' brain damage from semantic tasks. Lady Davis Scientific Retreat 2014 Conference Proceedings.

Roncero, C., & Chertkow, H. (2014). Control deficit subjects are superior for man-made objects on a verbal semantic task. 52nd Annual Meeting of the Academy of Aphasia. DOI:10.3389/conf.fpsyg.2014,64.00038.

Roncero, C. & Chertkow, H. Bilateral Temporal Lobe Damage Distinguishes Patients' Anomia Type. Society for the Neurobiology of Language 2014 Conference Proceedings.

#### ***Morais, JA***

Pion CH, Barbat-Artigas S, Chevalier S, Gaudreau P, Gouspillou G, Morais JA, Aubertin-Leheudre M, Bélanger M. Neuromuscular profile of healthy and pre-frail elderly men: a preliminary study. International Conference on Sarcopenia and Frailty Research (ICFSR) 2014. Hotel Rey Juan Carlos, Barcelona, Spain, March 13-14, 2014. *Journal Frailty Aging* 2014

Leduc-Gaudet JP, Pion CH, Barbat-Artigas S, Bélanger M, Gousspillou G, Morais JA, Gaudreau P, Aubertin-Leheudre M. Association of circulating levels of igf-1 and igfbp-3 with muscles quality and physical function in older men: preliminary results. International Conference on Sarcopenia and Frailty Research (ICFSR) 2014. Hotel Rey Juan Carlos, Barcelona, Spain, March 13-14, 2014. Journal Frailty Aging 2014

Barbat-Artigas S, Pion CH, Gousspillou G, Bélanger M, Hepple RT, Morais JA, Aubertin-Leheudre M. Aging-related loss of skeletal muscle strength: The role of muscle quality. Exp Biology Meeting. San Diego Convention Centre. April 26-30, 2014. FASEB J April 2014

Rahi B, Morais JA, Gaudreau P, Payette H, Shatenstein B. Decline in physical performance among diabetic older adults from the NuAge cohort is unaffected by diet quality alone or in combination with physical activity. 74th Scientific Sessions of the American Diabetes Association, San Francisco, USA, Guided Audio Poster Tour, Sunday 15 June 2014. Diabetes Suppl

Rahi B, Morais JA, Gaudreau P, Payette H, Shatenstein B. Low energy and protein intakes are associated with a decline in functional capacity among diabetic older adults from the NuAge cohort. 74th scientific sessions of the American Diabetes Association, San Francisco, USA, General Poster Session, Monday 16 June 2014. Diabetes Suppl.

Theal R, Jiang H, Morais JA, Chevalier S. Dilution of plasma deuterated N-tau-methylhistidine as an alternative isotopic method to measure muscle protein breakdown. 2014 CNS Annual Scientific Meeting, St. John's, Newfoundland. June 7, 2014. APNM July 2014

Ciutto L, DiTomasso J, Kilgour R, Khan S, Morais JA, Borod M, Vigano A. Cancer cachexia staging: from theory to clinical practice. MASCC/ISOO Symposium Miami, USA, June 26– 28, 2014. Supportive Care Cancer 22 (Suppl 1): S29.

DiTomasso J, Ciutto L, Vigano A, Kilgour R, Morais JA. The relationships between bone mineral density and clinical correlates of cancer cachexia. MASCC/ISOO Symposium in Miami, USA, June 26 to 28 2014. Supportive Care Cancer 22 (Suppl 1): S24.

### **3. Academic and community engagement service outside of McGill by individual members of the unit**

#### **Conferences**

##### ***Bergman, Howard***

Chair, Symposium on Good and Bad Inflammation in the Progression of Alzheimer's Disease. 13th International Geneva/Springfield Symposium on Advances in Alzheimer Therapy. Geneva, Switzerland (March 27, 2014).

Chair, Symposium on Caring for Patients with Dementia. 13th International Geneva/Springfield Symposium on Advances in Alzheimer Therapy. Geneva, Switzerland (March 27, 2014).

Caring for Patients with Dementia : Developing and implementing provincial Alzheimer strategies lessons learned from the Quebec Alzheimer plan. 13th International Geneva/Springfield Symposium on Advances in Alzheimer Therapy. Geneva, Switzerland (March 27, 2014).

Personalized medicine and the reorganization of health services: a view from Quebec and Canada. 13th International Geneva/Springfield Symposium on Advances in Alzheimer Therapy. Geneva, Switzerland (March 28, 2014).

Management of Canadian's Elderly and Chronic Diseases: State of the Art. Joint Forum on General Practice and Community Health. Shenzhen, China (July 5, 2014).

Case-Study – Community Management of Elderly with Multiple Comorbidities. Case Study – General Medicine and Community Health Joint Forum. Joint Forum on General Practice and Community Health. Shenzhen, China (July 6, 2014).

McGill Family Medicine: an academic discipline whose time has come. Botswana National Congress for Family Medicine. University of Botswana (September 9, 2014)

The approach to assessing and treating mental health of older persons in the community. Shenzhen Family Medicine Conference. Shenzhen, China (October 30, 2014)

Lessons learned from developing, implementing and evaluating the Quebec Alzheimer Plan. G7 Summit Legacy Event. Tokyo, Japan (November 4, 2014)

Frailty and disability. International Workshop (Canada, Japan, China, Taiwan), Tokyo, Japan (November 5, 2014)

Care of older persons in the community. CIHR/Newfoundland Ministry of Health «Best Brains» exchange (January 22, 2014)

Frailty a cautionary tale. Frailty in acute care. Banff (May 2, 2014)

The development and implementation of provincial Alzheimer Plans. CIHR/Nova Scotia Ministry of Health «Best Brains» exchange (October 30, 2014)

Implementation and Assessment of the Quebec Alzheimer Plan. Family Medicine Forum, Quebec City (November 12-14, 2014)

Workshop – A Continuum of Services – The frontline : The challenge for McGill's Department of Family Medicine and regional FMUs. Symposium 2014 Ruis McGill Abitibi-Temiscamingue. Rouyn-Noranda, QC (May 12, 2014)

Workshop – A Continuum of Services – Primary Care : The patient care, teaching and research mission at McGill’s Family Medicine Department. Symposium 2014 Ruis McGill Abitibi-Temiscamingue. Rouyn-Noranda, QC (May 13, 2014)

Workshop – A Continuum of Services – Aging : Quebec’s Alzheimer’s plan and implementation challenge. Symposium 2014 Ruis McGill Abitibi-Temiscamingue. Rouyn-Noranda, QC (May 13, 2014)

Panel: From Science to General Practice (Speaker). Women In Bio - Personalized Medicine. Aligning the business of healthcare. Montreal Neurological Institute. Montreal, QC (September 9, 2014)

***Chertkow, Howard***

Marva Whyte Alzheimer Awareness Conference. Alzheimer Groupe Inc. Montreal: Feb. 5, 2014.

Establishing the Canadian Consortium for Neurodegeneration and Aging: Taking research to the community. 29th International Conference of Alzheimer’s Disease International. San Juan, May 3, 2014.

Physical Activity and Brain Functions. 1st Annual PERFORM Centre Research Conference. Montreal: May 9, 2014.

Panel on Dementia. CIHR Dementia Café Scientifique. Ottawa: September 4, 2014.

The Facts: Some Key Neurologic Data about Cognitive Impairment. International Palliative Care Congress. Montreal: September 9, 2014

Healing: Challenges and Opportunities in Persons with Cognitive Impairment. Panel discussion. International Palliative Care Congress. Montreal: September 9, 2014.

How Alzheimer’s affects women. Women’s Health Initiative. Royal Victoria Hospital Foundation. Montreal: December 2, 2014

***LeBlanc, Andrea***

The role of Caspase-6 in age-dependent cognitive decline and in Alzheimer disease. Département de neuroscience, Université de Montréal, Québec, Québec, le 14 février 2014

Mécanismes moléculaires de maladies neurodégénératives reliées au vieillissement. Centre de Recherche du CHU du Québec. University Laval, Québec, Québec, le 5 mars 2014

Emerging therapeutic targets against Alzheimer disease. Grand Rounds, Department of Neurology and Neurosurgery, McGill University, Montréal, Québec, April 2, 2014

Le rôle de la Caspase-6 dans la maladie d’Alzheimer. Symposium: Rôle de l’inflammation dans les maladies neurodégénératives liées au vieillissement. 10ième Congrès International de Gériatrie et Gériatrie, le 14-16 mai 2014

NLRP1 inflammasome regulates Caspase-1-mediated Caspase-6 activation in human neurons. American Alzheimer International Congress, Copenhagen, Denmark, July 12-17, 2014

***Morais, José***

Xth Congrès international francophone de gérontologie et gériatrie. Symposium : Les multiples aspects du diabète chez le sujet âgé : un défi pour la clinique et la recherche. La résistance à l'insuline chez le sujet âgé. Palais des Congrès, Liège, Belgique. May 15, 2014

Xth Congrès international francophone de gérontologie et gériatrie. Symposium : Les enjeux neurocognitifs de la vitamine D chez la personne âgée. La nutrition des séniors : l'impact de la qualité de la diète et de la vitamine D sur la cognition. Palais des Congrès, Liège, Belgique. May 15, 2014

Xth Congrès international francophone de gérontologie et gériatrie. Symposium : Sarcopénie : rôle de l'inflammation et stratégies interventionnelles. Modalités nutritionnelles pour combattre la sarcopénie. Palais des Congrès, Liège, Belgique. May 15, 2014

XIIth Journées de la recherche du Réseau québécois de la recherche sur le vieillissement. Symposium thématique sur les chortes. Les résultats de la cohorte NuAge sur la résistance à l'insuline. Hôtel Delta, Shebrooke. Québec. October 7, 2014

MUHC - Department of Medicine Grand Rounds. Sarcopenia: what Clinicians should know about it and never ask. RVH - JSL Brown Amphitheater. March 11, 2014.

CHUS – Department of Medicine Grand Rounds. La sarcopénie et sa relation avec la performance physique de la personne âgée. April 25, 2014

Conférence Grand Public. Centre de recherche de l'Institut universitaire de Gériatrie de Sherbrooke. Rôle des protéines dans le maintien de la vitalité au cours du vieillissement. Musée de la nature et des sciences de Sherbrooke. October 1, 2014

Institut Universitaire de Gériatrie de Montréal. Conférence CMDP. Une approche gériatrique du diabète chez la personne âgée. November 6, 2014.

**Committee Work**

***Bergman, Howard***

- 2010 - Co-honorary President, Société francophone d'oncogériatrie
- 2014 Johns Hopkins University Claude D. Pepper Older Americans Independence Center
- 2014 Advisor MSSS on Implementation of the Quebec Alzheimer Plan
- 2014 Member, Conseil d'administration, INESSS
- 2014-2015 Advisor to the Ontario SPOR SUPPORT Unit (OSSU) IMPACT Awards, and Chair of their \$15 million peer review competition



***Chertkow, Howard***

- 2014 - Scientific Director, Canadian Consortium on Neurodegeneration in Aging (CCNA)  
A considerable effort in the next five years will go into my coming position as Scientific Director of the Canadian Consortium for Neurodegeneration in Aging (CCNA). This is an administrative position, but the CCNA is being established as a 34.5 million dollar five year grant via CIHR. I submitted the LOI in May 2013, which was approved, and the full grant was approved in March 2014. As PI of the CCNA application, I am Scientific Director of CCNA and the administrative centre will be established at McGill at the Lady Davis Institute. There are 40 co-applicants from across Canada, and 340 researchers (the entire Canadian neurodegenerative diseases research community!) involved in this application.
- 2012 - Executive member (elected), ISTAART (Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment, a professional society for individuals interested in Alzheimer's and dementia science).
- 2011- Member of the Executive committee (representing CIHR and Canada), Alzheimer's Disease NeuroImaging Initiative (ADNI).

***LeBlanc, Andréa***

*Editorial*

- 2011 - Academic Editor, PLoS ONE
- 2003 - Editorial Advisory Board Member, Current Alzheimer Research, Bentham Science Publishers,

*Grant Panels*

- 2013-2014 Member of Biomedical Peer Review Panel of the Alzheimer Society Research Program (ASRP)
- 2014-2015 CIHR Fellowships-Post-Doc-PhD committee

*Committees*

- 2013-2016 Co-Director of CIMA-Q (Consortium pour l'identification précoce de la maladie Alzheimer au Québec)
- 2013-2016 Theme leader for CIMA-Q (Consortium pour l'identification précoce de la maladie Alzheimer au Québec) Molecular mechanisms of disease and Biomarkers section
- 2013-2016 Co-Directrice de l'Axe de Cognition, Réseau Québécois de la Recherche sur le Vieillissement

***Morais, JA***

Associate Director, Quebec Network for Research in Aging – FRQS  
Director, Centre d'Excellence in Aging and Chronic Disease of McGill  
President of the Canadian Geriatrics Society

***Schipper, Hyman***

*Journal reviews*

**SECTION III - CONFIDENTIAL INFORMATION**

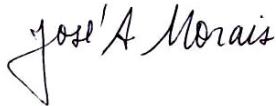
**1. Consulting activities:**

<b>Name of Faculty Member</b>	<b>Private Sector Consulting (# of days)</b>	<b>Public Sector Consulting (# days)</b>	<b>Other (# of days – please explain)</b>	<b>Total</b>
Morais, José	Toviaz Advisory Board, Pfizer			

Submitted by:



Ruby Friedman, MD  
Site Director, Division of Geriatric Medicine



José A. Morais, MD  
Director, McGill Division of Geriatric Medicine