

Centre for Medical Education Annual Report

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EXECUTIVE SUMMARY

2011 was a very productive year for the Members of the Centre for Medical Education. Education scholarship and research productivity were key priorities. There was a significant increase in scholarly output, with 17 new research grants for a total of \$4,118,800, 41 ongoing multi-year research grants for a total of \$8,382,514 (2011 total: \$12,501,302), 124 presentations, and 79 scholarly publications. Importantly, we have had approximately a quadrupling of funding dollars, of grant recipients and of publications from 10 years ago, and notably a much larger number of individuals at all levels of medical education involved in dissemination of their scholarly work. As well, six of our faculty members' publications were in the 'top downloads' from *Medical Teacher*, one of the major journals in the field. Another journal, *Advances in Health Science Education* mentioned one Core Faculty Member as one of the 'ten most published' in medical education. Major research themes were around Teaching and Learning, Professionalism, Assessment, Research Methodology, Faculty Development and Core Competencies. Our research productivity is highlighted in the appendices.

The Centre's Committee on Research in Medical Education (McRIME) played a significant role in planning a series of research capacity building sessions for our Members, and served as an important resource by facilitating an increasing number of peer reviews for education projects.

Our other priority was teaching and mentoring in the field of medical education. With future medical educators in mind, educational programs at the Centre continued to thrive. We oversaw nine medical student and resident electives in medical education, and supervised three senior residents in a year-long Postgraduate Fellowship Program in Health Professions Education. Centre Members were highly involved in the planning and delivery (teaching and graduate supervision) of the Master of Arts degree in Educational Psychology, Health Professions stream. In 2011 the first two students in this stream graduated and three more joined for a cohort of 13. Many Centre faculty hold key positions in the Faculty of Medicine and through these are able to apply a scholarly approach to education as well as to ensure that their educational practice informs their research.

The Centre hosted its third cohort of international colleagues for a week as part of the IMEX (International Medical Educators EXchange) program. Medical educators from Canada, the UK, Holland and Sweden spent an intensive week learning about health professions education in Canada and exchanging ideas on curriculum and education research. Collaboration with Université de Montréal continued with the annual joint medical education research day, providing opportunities for collaboration and exchange with colleagues from our sister university. We also welcomed six visiting speakers, a number of visitors and hosted three Visiting Scholars to the Centre, from Finland, Prince Edward Island and Israel. Our faculty members were central in planning many of the important medical education conferences, including the International Conference on Residency Education (ICRE), the Canadian Conference on Medical Education (CCME) and the First International Conference on Faculty Development.

The Centre celebrated the 10th anniversary of its renewal, hosting a day-long event featuring presentations by previous Centre Directors. This special occasion was an opportunity for former and present Core Faculty and Centre Members to reflect on previous accomplishments and look forward to having a significant impact on the future of medical education at McGill.

A number of Core Faculty and Centre Members received prestigious awards on the national and international stage as well as locally at McGill. Notable were the Order of Canada (Sylvia Cruess), the CAME-Ian Hart Award



for Distinguished Contribution to Faculty Development in Canada from the Canadian Association for Medical Education (Yvonne Steinert) and the AFMC John Ruedy Award for Innovation in Medical Education (Kevin Lachapelle).

Thanks to the generosity of four donors (Deirdre Stevenson, Robert Stevenson, Herbert Black and the Molson Foundation) the Centre was able to create an endowed Chair, the Richard and Sylvia Cruess Chair in Medical Education, and Yvonne Steinert was named the inaugural Chair. Funds were also received to launch the position of Cruess Scholar in Medical Education Research. Farhan Bhanji was appointed as the first recipient.



SECTION I – UNIT STATUS UPDATE

IA. Mission and Goals

McGill University's Centre for Medical Education promotes excellence and scholarship across the continuum of health professions education. More specifically, the Centre:

- Encourages innovation and excellence in teaching and learning;
- Serves as a resource for curriculum development in undergraduate, postgraduate and continuing health sciences education;
- Stimulates interest in educational research and development;
- Conducts research and scholarly work in health sciences education; and
- Ensures that research advances the field of health sciences education and informs educational practice.

The Members of the Centre for Medical Education represent diverse backgrounds and disciplines. All are teachers, most are either clinicians or basic scientists, and many have leadership roles in education throughout the Faculty. These multiple roles inform their activities at the Centre for Medical Education and their Centre activities enhance their other roles. At the Centre, they are involved in health professions education research and scholarship; educational development (planning, curriculum design and program evaluation); mentorship of students, residents, fellows and colleagues; faculty development and educational consultations; and dissemination of their educational innovations and research findings

IB. Academic Staff

Centre Membership in 2011 includes 15 Core Faculty, who each devote at least one day a week to research and development in medical education; 38 Centre Members, who spend at least one day a month in medical education activities; two Educational Researchers; one Postdoctoral Fellow; and eight Affiliate Members who represent diverse educational portfolios. All these individuals collaborate with other medical educators, departments and institutions to advocate for education scholarship and excellence in teaching and learning. (**Appendix VII** lists the names and departmental affiliations of all Centre staff.) Of note, the 'population' of the Centre has nearly tripled over the past 10 years.

New appointments in 2011 included Core Faculty Member Aliko Thomas, and Centre Members Lorraine Bell, Olivier Court, Mylène Dandavino, Elaine Doucette, Hélène Ezer, Srinivasan Krishnamurthy, Leonora Lalla, Lily Ha-Nam Nguyen, Geoffroy Noel, James Ross and Hugh Scott.

Within the Centre, Farhan Bhanji succeeded Peter McLeod as Director of the Postgraduate Fellowship in Medical Education, Michelle Elizov succeeded Linda Snell as Director of the Student and Resident Elective Program in Medical Education, and Mary-Ellen MacDonald and Don Boudreau were appointed as co-chairs of the McRIME (McGill Research in Medical Education) committee; all these individuals have advanced their respective portfolios as noted below.

IC. Notable Events and Activities in 2011

The Centre celebrated the 10-year anniversary of its renewal in December 2011, and hosted a day-long event which featured presentations by all previous Centre Directors, Hugh Scott, Dale Dauphinee, Vimla Patel and Peter McLeod, who discussed "The Evolution of Medical Education: Back to the Future." This occasion provided



an opportunity for former and current Centre Members to reflect on previous accomplishments and to look forward to having a significant impact on the future of medical education at McGill and in the broader community.

The Centre received an endowed Chair, the Richard and Sylvia Cruess Chair in Medical Education, ‘to be awarded to a world class scholar who will reinforce McGill’s ability to educate talented clinicians and researchers and who will influence the development of innovative medical curricula and teaching methods around the world.’ The donors were Deirdre Stevenson, Robert Stevenson, Herbert Black and the Molson Foundation. We are delighted that Yvonne Steinert was named the inaugural Chair.

Funds were also received to launch the position of Cruess Scholar in Medical Education Research - this award provides a stipend and research support to a faculty member ‘to improve the quality of the Centre’s research and academic programs and for innovation and program development in medical education’. Farhan Bhanji was appointed as the first recipient.

As well as teaching in their own disciplines, Members of the Centre were extensively involved in teaching and mentoring in medical education both at McGill, in Canada and internationally. Teaching activities at the Centre included:

- The Postgraduate Fellowship in Health Sciences Education program is designed for senior residents and fellows who have a career interest in medical education. We welcomed two Fellows for the academic year 2010-2011 and one Fellow in 2011-2012 (see **Appendix VI** for details of their activities and outcomes).
- Four medical students and five residents took part in the Medical Education Elective program for a total of nine months. (See **Appendix VI** for details of their activities and outcomes).
- Centre Members co-direct, supervise and teach in the Master of Arts in Educational Psychology, Health Professions stream. Three new students were accepted in 2011 to join the current cohort of 11; two students graduated in 2011. (See **Appendix VI** for details) As part of the Master’s program, the Centre offered a graduate course, Current Issues in Health Professions Education, in the winter of 2011. Organized and taught by Linda Snell, invited speakers included Farhan Bhanji, Richard Cruess, Sylvia Cruess, Saleem Razack, Yvonne Steinert and Meredith Young.

The success of our past fellows and elective participants was particularly rewarding. Past Postgraduate Fellow Joanne Alfieri (2008-2009) presented her work at national and international medical education meetings. Preeti Anand (Elective in 2010), presented the results of her project, “Introduction of Simulation-based Crisis Resource Management training for Internal Medicine (IM) Residents: An Assessment of Self-efficacy and Performance,” at ICRE 2011. Michelle Sholzberg (Elective in 2008) was an invited plenary speaker at ICRE 2011 where she discussed the work she did during her elective entitled “Rite of Passage: From Medical Student to Resident.”

Visiting Speakers to a number of the weekly Centre meetings and Medical Education Rounds (the latter planned jointly with the Faculty Development Office) provided the opportunity for Centre Members and the McGill community to hear internationally renowned experts discuss innovations and research in medical education. Details are outlined in **Appendix IV**.



In the area of education leadership, Core Faculty and Centre Members continued to be actively involved in the Faculty of Medicine's educational programs across the educational continuum. Colin Chalk was appointed as Director of Curricular Development by the McGill Faculty of Medicine. Aliko Thomas was named Associate Director of the School of Occupational and Physical Therapy, and Centre Director Yvonne Steinert was reappointed Chair of the Faculty Education Executive. A number of Centre Members contributed as theme leaders and committee members to the 2011 Faculty Postgraduate Strategic Planning process led by Sarkis Meterissian, and others were appointed to the New Curriculum Implementation Committee for undergraduate education

ID. Honors and Awards

A number of Core Faculty and Centre Members were honored this year. At a glance, some of the individuals who were honored and awarded at the national level include: Yvonne Steinert received the CAME-Ian Hart Award for Distinguished Contribution to Faculty Development in Canada from the Canadian Association for Medical Education; Sylvia Cruess was named an Officer of the Order of Canada; Donald Boudreau was inducted into the Gold Humanism Honor Society; Aliko Thomas received the Menges New Researcher Award from the American Educational Research Association; and Kevin Lachapelle received the AFMC John Ruedy Award for Innovation in Medical Education. At McGill, Ilana Bank received the Jonathan Meakins Campbell Fellowship. Please note that **Appendix III** lists the complete details on honors and awards.

SECTION II – GRANTS, PUBLICATIONS AND SERVICE OUTSIDE MCGILL

In the past 10 years we have had a quadrupling of funding dollars, of grant recipients and of publications, and notably a broader range and number of individuals at all levels of involvement in medical education involved in dissemination of their scholarly work. Dissemination of the Centre's scholarly activities was not only through the publications mentioned below. Centre Members gave close to 50 research presentations and over 20 poster presentations at all the major medical education conferences. Our research productivity is highlighted in the appendices.

IIA. Grants and Research Awards Received

In 2011, 10 new grants were awarded to Core Faculty Members for a total of \$2,215,972; Centre Members received 7 new grants for a total of \$1,902,816. In addition, there were 21 ongoing multi-year grants to Core faculty for a total of \$3,767,133, and 20 ongoing multi-year grants to Centre Members for a total of \$6,831,353. One notable evolution has been the acquisition of a number of larger grants from agencies not traditionally associated with our medical education funding (e.g. CIHR, SSHRC, Health Canada) in addition to the more modest grants from the 'usual' funding agencies (e.g. MCC, Colleges, hospital and philanthropic organizations). A brief thematic analysis of the scholarship of Centre faculty showed research projects on the following major themes: Teaching and Learning, Assessment, Research Methodology, Faculty Development, and Competencies in the Health Professions. A brief description of each area, a few significant accomplishments and the main scholars involved, will be highlighted for each major research theme.

Teaching and Learning: Including Clinical teaching (McLeod, Snell, Wiseman, Bhanji); Decision-making and clinical reasoning (Macdonald, Thomas, Young, Lubarsky, Rodriguez, Charlin); Technology-rich environments (Wiseman, Lajoie); Simulation (Bhanji, Gottesman, Bank, Vassiliou, Lachapelle); Technical skills (Nguyen, Vassiliou, Fried); Evidence-based practice (Thomas); Curriculum and program evaluation (Boudreau, Tellier,



Ware, Ruhe); Future of Medical Education in Canada (Meterissian, Bhanji, Cruess R, Cruess S, Razack, Ruhe, Snell, Steinert), Curriculum in nursing (Ezer); Social responsibility / diversity (Razack, King).

Sarkis Meterissian was awarded funding from Health Canada for “The Future of Postgraduate Medical Education in Canada: Post-Graduate”, a national project which examined the structure and processes of the postgraduate medical education system in Canada. The first phase of this national collaboration concluded with the launch of program recommendations. Susanne Lajoie and Jeff Wiseman have received further funding to work on computers as cognitive tools, looking specifically at technology for case-based instruction and problem-solving. Farhan Bhanji and Ron Gottesman are looking at simulation-based education as a means to learn resuscitation. Aliko Thomas is examining the integration of information literacy and evidence-based approaches into teaching.

Assessment: (Young); Script concordance test (Lubarsky, Meterissian, Charlin); assessing professionalism (Cruess R, Cruess S, Steinert, Young); MMI’s and OSCEs (Lubarsky, Razack, Young). Meredith Young, Richard Cruess, Sylvia Cruess and Yvonne Steinert are testing the validity and reliability of a new tool, the MD-ACT, designed to assess the professional and teaching behaviors of clinical teachers and residents, to build on the published work of Sarah Todhunter, a former medical education elective participant from the UK. Stuart Lubarsky was awarded funding from the American Association of Neurology in 2011, for his research project entitled “Assessing the Multiple Mini Interview (MMI) for Use in Selecting Applicants to a Neurology Residency Program.” Meredith Young is examining many approaches to assessment, including those used in high stakes exams, such as OSCEs, and the MCCQE, as well as assessment of clinical reasoning skills.

Research Methodology: Qualitative methodology (Macdonald, Chalk); Information searching and use (Kloda). Mary Ellen Macdonald, as part of the McGill Qualitative Health Research Group (MQHRG) provides a much-needed interdisciplinary forum for scholars and students working with qualitative methodologies. Presentations include discourse analysis, case-study approaches, mixed-methods and phenomenology. Of increasing interest this year has been nursing and occupational therapy research. With an increasing emphasis on qualitative research and mixed methods designs in medical education, the presence of the MQHRG at the Centre offers invaluable opportunities to Core Faculty and Centre Members.

Faculty Development: Teachers and teaching (MacDonald, McLeod, Steinert, Boillat); Mentorship (Elizov); Strategies (Brawer, Čapek, McLeod, Snell); Faculty development for leadership (Steinert, Meterissian, Razack, Snell, Wiseman, Boillat). Peter McLeod and colleagues (Steinert, Ruhe, Brawer, Chalk, Čapek) have finalized work looking at peer mentoring of lecturers and are starting long term outcome evaluation of this activity. Michelle Elizov received further funding to extend her work looking at the role of and nature of mentoring. Mary Ellen MacDonald and Yvonne Steinert are examining why clinicians teach.

Competencies in the Health Professions: (Snell); Professionalism (Cruess R, Cruess S, Steinert); Healer role (Boudreau, Hutchison). Sylvia Cruess and Richard Cruess are examining the role of identity formation and its relationship to professionalism. Tom Hutchison has added to the body of knowledge on Whole Person Care with the publication of a book on the topic.

IIB. Publications

Total scholarly output in 2011 included 56 peer reviewed articles, 16 book chapters and monographs, and seven commissioned reports by over 30 Centre Members. Four Core Faculty publications (Cruess R, Cruess C, Linda Snell, Yvonne Steinert) were in the ‘top downloads’ from *Medical Teacher*, one of the major journals in the field.



Another journal, *Advances in Health Science Education* mentioned Yvonne Steinert as one of the '10 most published' published in medical education. This year we note that, for the first time, over half the publications came from Centre Members, suggesting that this group is able to use the resources at the Centre to increase their education scholarship.

IIC. Research Capacity Building

With the goal of strengthening research activities at the Centre, Mary Ellen Macdonald and Donald Boudreau organized a series of research seminars (details in **Appendix V**). These capacity-building sessions were supplemented by preparatory sessions for grant submissions and conference presentations, formal peer-reviews of grant applications, and manuscript review sessions. These meetings provided a forum where individual and Centre-based research projects could receive constructive feedback.

IID. Academic Collaborations and Community Engagement

In April 2011, the fifth joint meeting of Centre Members and faculty from Université de Montréal's (UdeM) Centre de Pédagogie Appliquée aux Sciences de la Santé (CPASS) took place at UdeM. The event provided an opportunity to discuss common interests, ideas and challenges in health sciences education and develop potential collaborations. The topic was "Core Competencies: Successes, Challenges and Research Questions", with working groups discussing teaching, evaluating and faculty development in this area. A number of research collaborations between universities developed from this event.

In October 2011, the Centre hosted McGill's third cohort of IMEX (International Medical Educators eXchange) Scholars. 2011 participants included: Bo Bertilson (Karolinska Institute, Sweden), Barbara Blackie (Dalhousie University, Halifax), Ron Gottesman (McGill University), Hans Hjelmqvist (Karolinska Institute, Sweden), Wendy Stewart (Dalhousie University, Halifax) and Annika Wernerson (Karolinska Institute, Sweden). The goal of this collaboration between two Canadian and three European medical schools is to broaden the perspective of experienced medical educators by enabling them to visit three different medical schools for a week at a time over the course of two years.

Visiting Scholars: The Centre hosted three Visiting Scholars who spent from one week to five months working on specific projects with Core Faculty. Outi Kortekangas-Savolainen from the University of Turku, Finland worked with Yvonne Steinert and Core Faculty in the areas of 'developing medical educators and developing centres for medical education' and continuing professional development. Barbara Horney from the Atlantic Veterinary College University of Prince Edward Island worked with Sylvia Cruess and Richard Cruess on teaching professionalism. Riva Brik Haifa, Israel worked with Yvonne Steinert on postgraduate education and faculty development. As well, there were a number of visitors from outside McGill who came for short periods to consult with specific faculty members or to observe the Centre 'in action'.

Core Faculty and Centre Members were invited to consult with colleagues at other institutions, to be visiting professors in medical education or to give presentations in medical education across Canada and the USA and in Austria, France, Germany, Holland, Poland, the UK, Brazil, Oman, Kuwait and Saudi Arabia. As well as the research presentations and posters mentioned above, they also presented regularly at medical education conferences: 38 workshops (including 15 invited) and 12 invited oral or keynote presentations. Centre Members were also significantly involved in planning many of the major medical education conferences, including CCME, the ICRE (Linda Snell, co-Chair), the 1st International Faculty Development Conference Yvonne Steinert co-Chair)



and the Montreal Clinical Reasoning Conference, of which Stuart Lubarsky and Meredith Young are co-organizers.

All these collaborations and interactions served to enhance the international reputation of the Centre for Medical Education as well as to advance the scholarly approach to health professions education at McGill.

Acknowledgements

We acknowledge the active support of past Dean Richard Levin for his engagement in the activities of the Centre for Medical Education; Yvonne Steinert for her ongoing leadership and creativity; Ms. Deanna Radford, Ms. Marie-Noël Ouellet, and Ms. Audrey Lew for their invaluable contributions to all Centre activities; Michelle Elizov as Director of the Electives Program; Peter McLeod and Farhan Bhanji as Directors of the Postgraduate Fellowship in Health Sciences Education; Donald Boudreau and Mary Ellen Macdonald as co-chairs of the McGill Research in Medical Education Committee; all members of Centre committees and working groups; and all Core Faculty and Centre Members for their dedication to excellence and scholarship in medical education.



APPENDIX I – GRANTS IN MEDICAL EDUCATION (JANUARY 1 – DECEMBER 31, 2011)

1. Azevedo R, **Lajoie S**, **Lachapelle K**, Muis K, **Wiseman J**, Hmelo-Silver C, Leighton J, Chi M, van Lehn K, Shute V, Pekrun R, Moreno R, Frasson C, Calvos R, Lester J, Jang E, Stupnisky R. Technology rich learning environments: Supporting learning across the disciplines. (Social Sciences and Humanities Research Council: Major Collaborative Research Initiative, 2011-2012, \$20,000)
2. Azevedo R, **Lajoie S**, **Lachapelle K**, Muis K, **Wiseman J**, Hmelo-Silver C, Leighton J, Shute V, Pekrun R, Frasson C, Calvos R, Lester J, Jang E, Stupnisky R. Learning across the disciplines: Supporting technology rich learning across disciplines. (Social Sciences and Humanities Research Council: Partnership Grant, 2011-2013, \$20,000)
3. Azevedo R, **Lajoie S**, Saroyan A, Conati C. Examining the impact of pedagogical agents' scaffolding on students' affect during learning with interactive learning environments. (Social Sciences and Humanities Research Council-Insight Development Grant, 2011-2013, \$75,000)
4. Bates J, **Meterissian S**, Rungta K, Spadafora S. The future of medical education in Canada postgraduate project environmental scan. (Health Canada funded initiative contract: University of Toronto, University of British Columbia & McGill University, 2010-2012, \$200,000)
5. Birnbaum L, **Young ME**, **Snell L**. The influence of medical language on patient relevant outcomes. (McGill University Health Centre Patients Committee, 2011-2012, \$600)
6. Boudreau D. The Gold Professorship (The Arnold P. Gold Foundation, 2009-2012, \$150,000)
7. Bracewell R, **Lajoie S**, Breuleux A, Donin J, Frederiksen C. Cognitive tools to support teaching and learning in technology rich problem solving environments. (Social Sciences and Humanities Research Council, 2008-2011, \$165,250)
8. Bracewell R, **Lajoie S**, Flanagan T, Muis K, Saroyan A. Technology-Enhanced Teaching and Learning In Higher Education. (Social Sciences and Humanities Research Council RDI, 2010-2011, \$2,000)
9. Brassard P, Klein M, **Macdonald ME**. The burden of HIV/AIDS in Nunavik: Identifying gaps and priorities. (Canadian Institutes of Health Research, 2010-2011, \$33,000)
10. Chang A, **Gottesman R**, **Bhanji F** et al. Assessing and improving the quality of cardiopulmonary resuscitation (CPR) delivered during simulated pediatric cardiac arrest using a novel pediatric CPR feedback device. (CIHR/HSFC, 2010-2013, \$446,834)
11. Chin K, Liben S, **Boudreau D**, **Boillat M**, Faremo S, **Steinert Y**. A faculty development workshop on narrative medicine: Assessing the impact on teaching. (Royal College of Physicians and Surgeons of Canada, 2009-2011, \$24,684)



12. Cohen R, Stajduhar K, Baxter S, Bitzas V, Crooks V, Heyland D, Koop P, Lapointe B, **Macdonald ME**, Williams A. Knowledge transfer for family caregiving in P/EOL care. (Canadian Institutes of Health Research, 2010-2011, \$40,000)
13. Dawes M, Bartlett JC, Roland GM, McKibbin A, Nie JY, **Kloda L**. Refining access to health information using a novel indexing approach. (Canadian Institutes of Health Research, 2008-2011, \$101,654)
14. **Elizov M**. Mentorship in clinical medicine. (Royal College of Physicians and Surgeons of Canada, 2010-2011, \$29,000)
15. **Elizov M**. Mentorship in Clinical Medicine. (Jewish General Hospital Department of Medicine Clinical Research Award, 2011-2013, \$12,000)
16. Ellaway R, **Lachapelle K**. Healthcare virtual services organization. (Canarie, 2008-2011, \$2,000,000)
17. Feldman L, **Vassiliou M**, **Fried G**. Mastery versus standard proficiency laparoscopic technical skills training: A randomized controlled trial. (Society of American Gastrointestinal and Endoscopic Surgeons, 2010-2011, \$25,704)
18. Feudtner C, **Macdonald ME**. Decision making in pediatric advanced care. (National Institutes of Health USA R01 Grant, 2010-2015, \$291,013)
19. Girard F, Mathieu L, **Ezer H**, Cardinal S, Goudreau J, Beaulieu M, Boucher P, Schemdt ME, Blais S, Trudeau D. État des lieux sur la Phase I du continuum de formation infirmière intégrée DEC-BAC. Phase II. (Projet provincial des consortiums collèges-universités impliqués dans le programme de formation infirmière intégrée DEC-BAC, 2010-2015, \$258,698)
20. Graves L, **Young ME**. Evaluation of perceived and actual competency in a family medicine OSCE: Insight for a competency-based curriculum. (College of Family Physicians of Canada, 2010-2011, \$10,000)
21. Gilfoyle E, **Gottesman R**, **Farhan B** et al. Can adherence to PALS guidelines be improved by team training of pediatric resuscitation team members? (CIHR-HSFC, 2010-2013, \$474,038)
22. **King N**, Harper S, **Young M**. Measurement, ethics, and health policy: Investigating the role of valued judgements in the measurement and evaluation of health inequalities. (Canadian Institutes of Health Research, 2010-2013, \$190,434)
23. Korner-Bitensky N, Teasell R, Wood-Dauphinee S, Salbach N, Bourbonnais D, Levin M, Jutai J, Menon A, Fung J, Bayley M, Kagan A, Kaizer F, Fellows L, Rochards C, Dumoulin C, Rochette A, **Kloda L**, Thomas A, Martino R, Mayo NE, Eng J, Duncan P, Page S. StrokEngine: An interactive e-learning resource for moving evidence-based stroke rehabilitation into clinical practice – Continuation project. (Canadian Stroke Network, 2010-2013, \$254,700)



24. **Lajoie S.** Advanced technologies for learning in authentic settings: Supporting teaching and learning in technology rich problem solving environments. (Canadian Research Chair Program, 2011-2018, \$1,400,000)
25. **Lajoie S.** Computers as cognitive tools. (James McGill Research Fund, 2004-2011, \$105,000)
26. **Lajoie S, Hmelo-Silver C, Wiseman J, Ki Chan L, Lu J, Moreno R.** Designing technology-rich environments for case-based instruction: A model for life-long learning. (Social Sciences and Humanities Research Council, 2010-2011, \$75,000)
27. **Lajoie S, Saroyan A, Azvedo R.** The Meta-Prof: A self-regulated learning approach to teaching development in higher education. (Social Sciences and Humanities Research Council- Insight Development Grant, 2011-2013, \$69,850)
28. **Lalla L, Young ME.** The integration of simulation in family medicine: Increases in cognitive load as a method to differentiate levels of competence in clinical clerks. (College of Family Physicians of Canada, 2011-2012, \$5,000)
29. **Lang A, Aston M, Brunelle G, Cadell S, Carr T, Chochinov H, Doran D, Downey A, Drouin S, Fleischer A, Glasgow R, Goodwin S, Grinspun D, Mawani A, Macdonald ME, O'Connor P, Strumpf E, Sword W.** Improving the quality of bereavement care to individuals and families: Knowledge translation in action. (Canadian Institutes of Health Research, 2010-2011, \$15,000)
30. **Légaré F, Borduas F, Coutu M, Desroches F, Griffiths M, Labrecque M, Politi M, Rodriguez C, Rousseau M, Stacey D.** Effective continuing professional development for translating shared decision making in primary care. (Canadian Institutes of Health Research, 2010-2011, \$99,984)
31. **Légaré F, Borduas F, Coutu M, Desroches S, Giguere A, Harter M, Leblanc A, Moumid N, Politi MC, Roch G, Rodriguez C, Sargeant J, Stacey D.** Scaling up implementation of evidence-based shared decision making training programs for health professionals. (Canadian Institutes of Health Research, 2011-2012, \$49,990)
32. **Loye N, Laveault D, Charlin B, Nonnon P.** Vers des tests diagnostiques à grande échelle en éducation: Un nouveau cadre de référence. (SSHRC/CRSH: Initiatives de développement de la recherche (IDR), 2009-2011, \$36,634)
33. **Macdonald ME, Brassard P, Salsberg J, Pineau B.** Advancing primary health care for/ and with urban Aboriginal peoples. (Canadian Institutes of Health Research, 2010-2011, \$9,655)
34. **Macdonald ME, Hutchinson T, Allen D, Cohen SR.** Decision-making over time: The care of people with end-stage renal disease (ESRD): Communication among health professionals, patients, and families. (Kidney Foundation of Canada, 2009-2012, \$100,000)



35. **Macdonald ME**, Shrier I, Boivin JF, Brophy J, Carnevale FA, Furlan AD, Kakuma R, Platt RW, Rossignol M, Steele R. Meta-analysis: Understanding the subjective interpretation of an objective analysis. (Canadian Institutes of Health Research, 2009-2012, \$38,033)
36. **Macdonald ME, Steinert Y**. Why do clinicians teach? (Royal College of Physicians and Surgeons of Canada, 2011-2012, \$5,000)
37. **McLeod P, Steinert Y, Ruhe V, Brawer C, Chalk C, Capek R**. Peer assessment of lecturing: An intervention for sustained impact. (Royal College of Physicians and Surgeons of Canada, 2010-2011, \$15,164)
38. Menmon K, **Gottesman R** et al. Understanding the consenting process in pediatric critical care research. (CIHR: Operating Grant, 2009-2011, \$49,000)
39. **Meterissian S**, Rungta K, Spadafora S. The future of medical education in Canada postgraduate project liaison and engagement. (Health Canada funded initiative contract: University of Toronto, University of British Columbia & McGill University, 2010-2012, \$115,000)
40. Norman GR, Wood TG, **Young ME**, Dore K, Gaissmaier W, Sherbino J. Adapting MCCQE part II: Assessing dual processing in clinical reasoning - Does going slow actually prevent errors? (Development funding from the Medical Council of Canada, 2011-2012, \$14,000)
41. Norman GR, Wood TJ, **Young ME**, Dore K, Gaissmaier W, Sherbino J. Adapting MCCQE Part II: Assessing Dual Processing in Clinical Reasoning. (Medical Council of Canada, 2010-2011, \$25,000)
42. **Razack S**, Maguire M, Hodges B, **Steinert Y**. Understanding competing discourses and creating dialogues about equity, excellence and diversity in a medical school admissions process in a diverse urban setting. (Social Science and Humanities Council of Canada, 2010-2013, \$127,678)
43. Rodriguez C, Denis JL, Touati N. Les processus de collaboration médicale entre niveaux de soins: Les comprendre pour mieux les influencer. (Canadian Institutes of Health Research, 2011-2012, \$275,976)
44. Rodd C, **Macdonald ME**. Perceptions and understanding of the role of vitamin D among the midwives of Nunavik: A pilot project. (Montreal Children's Hospital, 2010-2011, \$3,500)
45. Siden H, **Macdonald ME**. PedPalASCNet: A Network for accessible, sustainable and collaborative research in pediatric palliative care. (CIHR Network Catalyst Grant, 2010-2015, \$375,327)



46. **Snell L.** Use of simulation as a teaching/Learning strategy in faculty development. (Association of faculties of Medicine of Canada, 2011-2012, \$4,000)
47. St. Onge C, **Young ME.** Testing one, two, three times: The longitudinal effect of test-enhanced learning and transferability to high-stakes settings. (Medical Council of Canada, 2011-2012, \$36,746)
48. **Steinert Y, Boillat M, Razack S, Snell L, Wiseman J,** Eidelman D, Israel M, Guyda H, **Meterissian S,** Ouellet MN, Moore K. Assessing the impact of a leadership development program for health care professionals. (Royal College of Physicians and Surgeons of Canada, 2010-2011, \$5,000)
49. **Tellier PP, Ware M.** Integrating pain management in the medical school curriculum. (Purdue, Canada, 2010-2012, \$100,000)
50. **Thomas A,** Zidarov D. Impact d'activités de partenariat recherché-clinique sur l'utilisation des resultants de la recherché dans un établissement de réadaptation. (Strauss Knowledge Translation Funds, 2011-2012, \$15,000)
51. Rodriguez C, Touati N, Pare G, Sicotte C, Lapointe L, Barkun J, Valiquette L, Huot J. Agency, information, technology and institutional change in knowledge-based complex professional organizations. (SSHRC: Insight Grant, 2011-2014, \$395,000)
52. **Ware M.** FRSQ Chercheur-boursier clinicien (Senior). (Fonds Québécois de la recherche sur la société et la culture, 2010-2014, \$154,000)
53. Weinstock D, **King N,** McDougall C, Ryoa C, Hirose I, Hunt M, Harper S, Williams-Jones B, **Young ME.** Ethics, social determinants of health and health equity: Integrating theory and practice. (Canadian Institutes of Health Research, 2011-2016, \$1,740,300)
54. **Young ME,** Norman G, Dore K, Watter S, Sherbino J, Woods N. Measures of diagnostic pattern recognition. (Medical Council of Canada, 2010-2011, \$30,000)



APPENDIX II – PUBLICATIONS IN MEDICAL EDUCATION (JANUARY 1 – DECEMBER 31, 2011)

Journal Articles

Amini M, Moghadami M, **Charlin B** et al. An innovative method to assess clinical reasoning skills: Clinical reasoning tests in the second national medical science Olympiad in Iran. *BMC Res Notes*. 2011; 4:418.

Audétat MC, Faguy A, Jacques A, Blais JG, **Charlin B**. Étude exploratoire des perceptions et pratiques de médecins cliniciens enseignants engagés dans une démarche de diagnostic et de remédiation des lacunes du raisonnement clinique. *Pédagogie Méd*. 2011; 12(1): 7-16.

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Bhanji F, **Gottesman R**, de Graves W, **Steinert Y**, **Winer L**. Paediatric resuscitation training - Do medical students believe it should be a mandatory component of the curriculum? *Resuscitation*. 2011; 82(5):584-587.

Bhanji F, Soar J. Do smartphones help deliver high-quality resuscitation care? *Resuscitation*. 2011; 82(11):1424-7.

Boruff J, **Thomas A**. Integrating evidence-based practice and information literacy skills in teaching physical and occupational therapy students. *Health Info Libr J*. 2011; 28(4):264-72.

Boudreau D. Physician-assisted suicide and euthanasia: Can you even imagine teaching medical students how to end their patients' lives? *Perm J*. 2011; 15(4): 79-84.

Boudreau D, **Cruess SR**, **Cruess RL**. Physicianship: Educating for professionalism in the post-Flexnarian era. *Perspect Biol Med*. 2011; 54: 89-105.

Bruppacher HR, Chen RP, **Lachapelle K**. First do no harm: Using simulated patient death to enhance learning. *Med Educ*. 2011; 45(3): 317-8.

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Cruess RL, **Cruess SR**. Commentary: Professionalism, unionization and physicians' strikes. *Acad Med*. 2011; 86: 548-551.

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Ghaderi I, Vaillancourt M, Sroka G, Kaneva PA, Seagull FJ, George I, Sutton E, Park AE, **Vassiliou MC**, **Fried GM**, Feldman LS. Performance of simulated laparoscopic incisional hernia repair correlates with operating room performance. *Am J Surg*. 2011; 201(1): 40-45.

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Holmgren L, Fuks A, **Boudreau D**, Sparks T, Kreiswirth M. Terminology and praxis: Clarifying the scope of 'narrative' in medicine. *Lit Med*. 2011; 29(2): 246-273.

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Monographs, Books and Book Chapters

Blais J-G, **Charlin B**, Grondin J, Lambert C, Loye N et Gagnon R. L'estimation de l'accord entre des experts lors du calibrage d'un test de concordance de script avec le modèle à facettes de Rasch. In: Magis D, Raïche G, Paquette-Côté K, editors. *Des mécanismes pour assurer la validité de l'interprétation de la mesure en éducation*, volume 2 : L'évaluation. Les Presses de l'Université du Québec; 2011. p. 139-62.

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Kloda LA. Searching the literature to create a literature review. In: Harvey BJ, Lang ES, Frank JR, editors. The research guide: A primer for residents, other health care trainees and practitioners. Ottawa: Royal College of Physicians and Surgeons of Canada; 2011. p. 41-49.

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Waschke KA. How endoscopy is learned: Deconstructing skill sets. In: Cohen J, editor. Successful training in gastrointestinal endoscopy. Oxford: Wiley- Blackwell; 2011. p. 16-21.



Commissioned Reports

Bhanji F, Bandiera G, Bhandi F, Lendrum D, Nichols D, Sosnowski T, Blouin D, Woods R, Sherbino J. CanMEDS teaching springboards: Emergency medicine. Royal College of Physicians and Surgeons of Canada. Ottawa 2011.

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Maman-Dogma J, Rousseau M, Dove M, **Rodriguez C, Meterissian S**. Length of training in Postgraduate Medical Education in Canada. Association of Faculties of Medicine of Canada: Postgraduate Project, 2011.

Razack S, Bhanji F, Ardenghi L, Lajoie MR. Training residents to address the needs of a socially diverse population. Members of the FMEC Post Graduate Consortium. 2011.

Steinert Y. Faculty development for postgraduate medical education: The road ahead. Association of Faculties of Medicine of Canada: The Future of Medical Education in Canada, 2011.



APPENDIX III – HONORS, AWARDS AND PRIZES

Ilana Bank

- Jonathan Meakins Campbell Fellowship, January 2011

Donald Boudreau

- Inducted into the Gold Humanism Honor Society, 2011

Sylvia R. Cruess

- Officer, Order of Canada, April 2011

Gerald M. Fried

- Elected to Canadian Academy of Health Sciences, May 2011
- SAGES Distinguished Service Award for a significant, long-term educational, research, clinical and/or technological contribution to the field of surgical endoscopy as well as to SAGES, 2011

Kevin Lachapelle

- AFMC John Ruedy Award for Innovation in Medical Education, May 2011

Linda Snell

- Phil Hill Award for Outstanding Clinical Teaching by the McGill University Health Centre, Department of Medicine, May 2011

Yvonne Steinert

- CAME-Ian Hart Award for Distinguished Contribution to Medical Education, Canadian Association for Medical Education, May 2011
- Richard and Sylvia Cruess Inaugural Chair in Medical Education, Faculty of Medicine, McGill University, September 2011

Aliki Thomas

- Post-doctoral fellowship at the CanChild Centre for Childhood Disability Research at McMaster University, 2011
- Menges New Researcher Award from the American Educational Research Association, 2011

Melina Vassiliou

- Third prize, Best paper Fraser Gurd Day. "Using Videos for Surgical Education", Yo Kurashima, MD, PhD, Montreal, Canada. Supervisor, 2009-2011
- Henry K.M. de Kuyper Distinguished Educator in Surgery Award, Montreal, 2011



APPENDIX IV – VISITORS TO THE CENTRE

Visiting Speakers at the Centre	Topic
Brian Hodges Wilson Centre, University of Toronto	“A Tea-Steeping or i-Doc Model for Medical Education?”
Brian Hodges Wilson Centre, University of Toronto	“Navigating the Tensions between Prestige and Access in Medical School Admissions,” Medical Education Rounds (Discussant)
Kevin Souza UCSF Marc Triola NYU	“Best Practices in Online Technologies and Lessons Learned”
Kevin Souza UCSF Marc Triola NYU	“How Online Technologies Can Enhance Student Learning,” Medical Education Rounds
Barry Issenberg University of Miami Miller School of Medicine	“Simulation-Based Assessment,” Flanders Visiting Professor, Arnold and Blema Steinberg Medical Simulation Centre
Eduardo Salas University of Central Florida	“How do you Turn a Team of Experts into an Expert Team?”
Brian Hodges Wilson Centre, University of Toronto	“Thinking about the Subjective and the Collective in Assessment.”

Visiting Scholars	Institution
Riva Brik	Meyer Children's Hospital of Haifa, Israel
Barbara Horney	Atlantic Veterinary College University of Prince Edward Island
Outi Kortekangas-Savolainen	University of Turku, Finland

Visitors	Institution
Joel Lanphear	Northern Ontario School of Medicine
Antonella Lotti	University of Genoa, Italy
Loredana Sasso	University of Genoa, Italy



APPENDIX V – RESEARCH CAPACITY BUILDING SESSIONS

2011 Research Capacity Building Sessions	
Facilitator	Session Title
Stuart Lubarsky and Meredith Young	The Multiple-Mini Interview Admissions Process
Pierre Pluye (Research Division, Department of Family Medicine) with Mary Ellen Macdonald	Mixed-Methods Research
Ilde Lepore (Faculty of Medicine Institutional Research Board)	The IRB Submission Process
Peter McLeod, Yvonne Steinert and Meredith Young	Manuscript Reviews
Peter McLeod, Saleem Razack, Robert Sternszus, Teresa Valois and Meredith Young	CAME 2011 Dry-Run Presentations



APPENDIX VI – POSTGRADUATE FELLOWS, ELECTIVES PARTICIPANTS AND MA STUDENTS

2010-2011 Postgraduate Fellows			
Name	Supervisor	Project	Outcome
Catherine Patocka R2 Emergency Medicine	Jeffrey Wiseman	“An Assessment Tool for Emergency Medicine Resident ECG Decision Making”	Presented at Society for Academic Emergency Medicine Annual Meeting, Chicago, May 2012 & Canadian Association for Emergency Physicians Annual Meeting, Niagara, June 2012.
Daniel Zigman R4 Psychiatry	Colin Chalk	“Evaluating an Activity to Teach Psychiatry Residents to Work with Agitated Patients”	“Using Simulation to Train Junior Psychiatry Residents to Work with Agitated Patients: A Pilot Study” accepted for publication in <i>Academic Psychiatry</i> .
2011-2012 Postgraduate Fellow			
Name	Supervisors	Project	Outcome
Sonia Macfarlane R5 Obstetrics and Gynecology	Jeffrey Wiseman Srinivasan Krishnamurthy	“Theatre Techniques and the Training of Obstetricians and Gynecologists”	Ongoing: Presentation to Centre for Medical Education Members

2011 Elective Participants			
Name	Supervisor(s)	Topic	Outcome
Mino Helmi MDCM4	Colin Chalk Stuart Lubarsky	“Formalized Near Peer Teaching Program”	- Presentation to Centre for Medical Education
Robert Sternszus R2 Pediatrics	Richard Cruess Sylvia Cruess Yvonne Steinert	“Resident Role Models: Impact on Undergraduate Trainees”	- Presentation to Centre for Medical Education - First prize at Montreal pediatric resident research competition, Ste-Justine Hospital. Selected to represent MGH and McGill at the National Pediatric Resident Symposium, Winnipeg, May 2011. - “Role Models: Impact on Undergraduate Trainees” accepted for publication in <i>Academic Medicine</i> .



Catherine Patocka R4 Emergency Medicine	Farhan Bhanji Jeff Wiseman	"The Impact of Bolus versus Spaced Instruction on Learning in Pediatric Resuscitation"	- Presentations to Centre for Medical Education - Research project in progress
Nathalie Gans MDCM3	Peter McLeod Alik Thomas	"Did the Resident Strike Influence Student Learning?"	- Presentation to Centre for Medical Education
Alex Pagé R2 Orthopaedics	Olivier Court Linda Snell	"The Use of an Evaluation Tool (BAKSS) in the Arthroscopic Surgery Setting"	- Presentation to Centre for Medical Education - Research project in progress
Noura Hassan MDCM4	Linda Snell	"Duty Hour Regulations and Surgical Residencies: A Comprehensive Review of Potential Strategies"	- Presentation to Centre for Medical Education
NingZi Sun R5 Medicine	Linda Snell	"The Effect of Structured Peer Review and Feedback on Residents' Ability to Write Effective Consultation Letters" "Observership as a Means of Career Exploration"	- Presentation to Centre for Medical Education - Presentation on Consultation Letters at General Internal Medicine Residents' Research Day - Paper on Observership submitted to <i>Medical Education</i>
Valeria Stoyanova MDCM3	Jeff Wiseman	"From the Lecture Hall to the Battlefield: How to Help Students Change Their Thinking From Systems to Approaches"	- Presentation to Centre for Medical Education
Elisa Ruano Cea R5 Pediatrics	Mylène Dandavino	"The Resident-led Healthy Active Living in Youth (RHLY) Program: Impact on Pediatric Residents' Behavioral Intentions and Skills in Counseling on Childhood Obesity"	- Presentation to Centre for Medical Education - Poster presentation at Canadian Pediatric Society meeting in June 2012

Masters Students



Name	Discipline
Khalid Mohsin Al-Ejji	Gastroenterology
May Bader	Dentistry
Genevieve Chaput	Family Medicine (<i>Graduated in 2011</i>)
Heidi Clavet	Physiotherapy (<i>Graduated in 2011</i>)
Nicholas G�elinas-Phaneuf	Neurology and Neurosurgery
Wid Kattan	Psychiatry
Inas Fakhry Kostandi-Malaty	Internal Medicine
Yvette Marks	Educational Psychology (<i>New to program</i>)
Fareeda Hani Mukhtar	Educational Psychology (<i>New to program</i>)
Nisreen Nagrahby	Emergency Medicine (<i>New to program</i>)
Ali Samkari	Surgery
Donna Stanbridge	Nursing
Christina Summerside	Educational Psychology
Marilou Vaillancourt	Surgery
Kevin Waschke	Gastroenterology

APPENDIX VII – FACULTY, CENTRE FOR MEDICAL EDUCATION

Core Faculty	
Name	Department
Donald Boudreau	Internal Medicine
Jim Brawer	Anatomy and Cell Biology
Radan Čapek	Pharmacology and Therapeutics
Colin Chalk	Neurology and Neurosurgery
Richard Cruess	Centre for Medical Education
Sylvia Cruess	Centre for Medical Education
Stuart Lubarsky	Neurology and Neurosurgery
Mary Ellen Macdonald	Oncology and Nursing
Peter McLeod	Internal Medicine, Pharmacology and Therapeutics
Sarkis Meterissian	Surgery and Oncology
Saleem Razack	Pediatrics
Linda Snell	Internal Medicine
Aliki Thomas	Physical and Occupational Therapy
Jeffrey Wiseman	Internal Medicine
Yvonne Steinert	Family Medicine

Educational Researchers	
Name	Area of Specialty
Valerie Ruhe	Education (<i>Until May 2011</i>)
Meredith Young	Cognitive Psychology

Richard & Sylvia Cruess Faculty Scholar	
Name	Area of Specialty
Farhan Bhanji	Pediatrics

Postdoctoral Fellow	
Name	Area of Specialty
Claire Trottier	Biomedical Science



Centre Members	
Name	Department
Ilana Bank	Pediatrics
Lorraine Bell	Pediatrics
Laeora Berkson	Internal Medicine
Farhan Bhanji	Pediatrics
Miriam Boillat	Family Medicine
Olivier Court	Surgery
Beth-Ann Cummings	Internal Medicine
Mylène Dandavino	Pediatrics
Elaine Doucette	Nursing
Michelle Elizov	Internal Medicine
Hélène Ezer	Nursing
Robin Featherstone	Life Sciences Library
Ron Gottesman	Pediatric Critical Care Medicine
Jim Henderson	Life Sciences Library (<i>Until May 2011</i>)
Nicholas King	Biomedical Ethics, Social Studies of Medicine
Lorie Kloda	Life Sciences Library
Srinivasan Krishnamurthy	Obstetrics and Gynecology
Susanne Lajoie	Educational and Counselling Psychology
Leonora Lalla	Family Medicine
Markus Martin	Obstetrics and Gynecology
Helen McNamara	Obstetrics and Gynecology
Christine Meyers	Emergency Medicine (<i>Until May 2011</i>)
Fraser Moore	Neurology and Neurosurgery
Jay Nadeau	Biomedical Engineering
Lily Ha-Nam Nguyen	Otolaryngology
Geoffroy Noel	Anatomy and Cell Biology
David Ragsdale	Neurology and Neurosurgery
Frank Ramadori	Anesthesia (<i>Until May 2011</i>)
Charo Rodriguez	Family Medicine
James Ross	Psychiatry (<i>Until December 2011</i>)
Ruth Russell	Psychiatry
Hugh Scott	Medicine
Pierre-Paul Tellier	Family Medicine
Teresa Valois	Anesthesia and Pediatrics
Melina Vassiliou	Surgery
Adrianna Venturini	Physical and Occupational Therapy
Mark Ware	Anesthesia, Family Medicine and Pain Centre
Kevin Waschke	Gastroenterology



Affiliate Members	
Name	Department / Organization
Bernard Charlin	Director, URDESS, Université de Montréal
Deborah Danoff	Canadian Medical Protective Association
Adam Finkelstein	Educational Developer, Teaching and Learning Services
Gerald Fried	Surgery, Adair Chair of Surgical Education
Thomas Hutchinson	Medicine, McGill Programs in Whole Person Care
Kevin Lachapelle	Director, Medical Simulation Centre
Joyce Pickering	Associate Dean, Medical Education and Student Affairs
Laura Winer	Associate Director, Teaching and Learning Services