2011 Clinical Health Professionals Research Inventory Report

Hamilton Health Sciences
When the scholarship of discovery meets the relationship between patients and health professionals, evidence-informed practice takes place. In this integration of knowledge and practice, new relationships among disciplines are explored and discovered. Ideally, all members learn to function as equal partners of the health care team.

There is a growing emphasis on interprofessional practice in health care as a result of research that demonstrates the benefits of interprofessional collaboration. Collaboration in the provision of health care requires continuous interaction, synchronized efforts, and knowledge sharing among health care professionals. Demonstrated benefits of interprofessional collaboration are improved patient outcomes, enhanced provider satisfaction, and more effective utilization of resources.

As partners in care, all health professionals should aim to be effective users of health research findings; for some, there will be an interest in the discovery of new knowledge related to their fields of practice. Both scientific inquiry, and application of the best products of such inquiry, serve to advance each health professional group, raise the standard of practice, foster greater team communication and improve care. A critical task facing researchers, managers, and clinicians is to work together to create, share and use all forms of evidence, including best approaches to effective implementation.

This inventory is a compilation of research activities and knowledge dissemination carried out by health professional staff members of Hamilton Health Sciences from 2008-2010. With very little time dedicated solely to research-related activities, these professionals have demonstrated curiosity, commitment to their practice, and tenacity. In the process of so doing, they have brought recognition to their professions and to Hamilton Health Sciences. I am proud to present their work to you!

Heather M. Arthur, RN, PhD, FESC
Chief Scientific Officer, Hamilton Health Sciences
Professor, McMaster University
Heart and Stroke Foundation of Ontario/Michael G. DeGroote Endowed Chair in Cardiovascular Nursing Research
I am pleased to welcome you to this inaugural publication that provides a comprehensive report on the research activities of our non-medical health professionals here at Hamilton Health Sciences (HHS).

This publication serves as a testament to the dedication and commitment of our approximately 4,500 healthcare professionals at HHS to research activities and bringing this evidence into practice. It is through these activities that HHS health professionals are ensuring the quality and sustainability of the care we provide to our patients and families. I am continually inspired by the passion and commitment that is demonstrated to asking the “questions” and then setting about to answer them systematically by applying research methodologies.

This publication also demonstrates the high level of inquiry that exists within our clinical teams across HHS. It is through collaboration and partnerships within and across teams and with our academic partners that this work is possible. HHS is in a unique position to leverage our close relationship with McMaster University and clearly we are doing this! These partnerships are ensuring that the research capacity across HHS continues to grow and develop and that novice researchers are supported in their journey of inquiry.

I want to extend my personal thank you to all health professionals at Hamilton Health Sciences for your tremendous contributions to patient care through your research endeavours and to ensuring our patients and families receive the best possible care.

Nancy Fram

Vice President Professional Affairs and Chief Nursing Executive
## Contents

<table>
<thead>
<tr>
<th>Field</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical and Organizational Ethicist</td>
<td>6</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Dietetics</td>
<td>7</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Unfunded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td>8</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Unfunded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>12</td>
</tr>
<tr>
<td>Unfunded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td>13</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Physiotherapy</td>
<td>14</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Unfunded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Prosthetists and Orthotists</td>
<td>15</td>
</tr>
<tr>
<td>Unfunded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Psychological Services</td>
<td>16</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Unfunded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Social Work</td>
<td>21</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Collaboration with Academic Partners</td>
<td>22</td>
</tr>
<tr>
<td>Funded Research</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td></td>
</tr>
<tr>
<td>Legend of Abbreviations</td>
<td>23</td>
</tr>
</tbody>
</table>
Clinical and Organizational Ethicist

Funded Research

Symposium on practicing healthcare ethics in Canada.
PRIMARY INVESTIGATOR: Frolic A
2010 - 2011 | CIHR $24,855

Presentations


Frolic A. Ethical leadership in troubling times. HNHB Local Health Integration Network, Hamilton, Ontario, October, 2009.


Publications


Funded Research

**Milk for lean mass for overweight kids: the milk with exercise study.**

*PRIMARY INVESTIGATOR:* Gillis L  
*CO-INVESTIGATORS:* Phillips S, Timmons B  
*2010 - ongoing*  
| National Dairy Council (USA) | **$105,741**

Unfunded Research

**Using BMI index percentiles to predict weight in anorexia nervosa.**

*CO-INVESTIGATORS:* Toombs I, Van Blyderveen S, Findlay S, Grant C, Smith D, Seifried P  
*2007 - ongoing*

**Initial success predicts success at 6 months in pediatric obesity program.**

*PRIMARY INVESTIGATOR:* Gillis L  
*CO-INVESTIGATORS:* Timmons B, Brennan S, Musico A  
*2008 - 2009*

**Effects of healthy and unhealthy evening snacks on following day satiety, food intake, fatigue and activity in overweight children. (Pilot Study)**

*PRIMARY INVESTIGATOR:* Gillis L  
*CO-INVESTIGATORS:* Robinson R, Yantzi L  
*2009 - 2010*

**Family structure pediatric obesity.**

*PRIMARY INVESTIGATOR:* Gillis L  
*CO-INVESTIGATORS:* Witt C, Berg J, Falcone A  
*2010 - ongoing*

**Reasons for dropping out of a pediatric weight control program.**

*PRIMARY INVESTIGATOR:* Gillis L  
*CO-INVESTIGATORS:* Smith S, Lau L  
*2010 - ongoing*

**Does family structure affect success and retention in a weight control program?**

*PRIMARY INVESTIGATOR:* Gillis L  
*CO-INVESTIGATORS:* Berg J, Falcone A, Witt C, Toews H  
*2010*

Presentations


Publications

Mitigation of interruption effects on delivery of routine high risk medical procedures through the design and implementation of effective interventions.
PRIMARY INVESTIGATOR: Wiernikowski J
2010 - 2011 | Canadian Patient Safety Institute $298,000

Evaluation of post-partum newborn teaching related to infant crying.
PRIMARY INVESTIGATOR: Dore S
CO-INVESTIGATORS: Cooper T, Seigel S, Quinn R, Niec A, Kane-Corriveau S
2010 - 2011 | Ontario Neurotrauma Foundation $10,000

Maternal sensitivity and infant attachment security in the context of post-partum depression: an intervention pilot project.
PRIMARY INVESTIGATOR: Sheehan D
CO-INVESTIGATORS: Schofield R, Nicols A
2008 - 2011 | PHRED Hamilton City Public Health $40,000

Understanding patient preferences for receiving nursing interventions for breathlessness in patients with lung cancer.
PRIMARY INVESTIGATOR: Martelli-Reid L
CO-INVESTIGATOR: Bryant-Lukosius D
2008 - 2009 | Juravinski Cancer Centre Foundation $7,525

Patient safety culture in complex continuing care.
PRIMARY INVESTIGATOR: Zimmerman R
CO-INVESTIGATOR: Law M
2010 - 2011 (Estimated) Brock University SSHRC Institutional Grant $2,500

Implementation of gentle persuasive approaches in acute care (GPA).
PRIMARY INVESTIGATOR: Gillies L
2010 - 2011 CHORD $150,000 | Professional Affairs $50,000

The impact of mild cognitive impairment on self-care in older, stable patients with heart failure.
PRIMARY INVESTIGATOR: Harkness K
CO-PRINCIPAL INVESTIGATOR: McKelvie R
2010 - 2012 | HHS New Investigator Fund $31,000

Tailored interventions to improve risk management in stroke (TIMS Study).
PRIMARY INVESTIGATOR: Ireland S
2008 - 2009 | Ontario Stroke System $34,900

Tailored interventions to improve management after stroke (TIMS II).
PRIMARY INVESTIGATOR: MacKenzie G
2010 - 2011 | Ontario Stroke System $60,395

PRIMARY INVESTIGATORS: Ireland S, Ploeg J
CO-INVESTIGATORS: Davis B, Higuchi K, Cziraki K
2010 - 2012 | RNAO/ MOHLTC $30,000

Implementation and evaluation of the RNAO prevention of falls and fall injuries in the older adult best practice guideline in three acute care hospitals: a case study.
PRIMARY INVESTIGATORS: Ireland S, Kirkpatrick H
CO-INVESTIGATORS: Boblin S, Robertson K
2008 - 2009 | RNAO/ MOHLTC $60,000

Heart failure and self-care needs.
PRIMARY INVESTIGATOR: Harkness K
CO-INVESTIGATOR: Clark A
2010 - 2011 | CIHR Knowledge Synthesis Grant $91,453
Canadian heart failure patient and caregiver emotions.
**PRIMARY INVESTIGATOR:** Harkness K  
**CO-INVESTIGATOR:** McKelvie R  
2009 - 2010 | Canadian Heart Failure Network $5,000

**CARD clinical pathway.**  
**PRIMARY INVESTIGATOR:** Sherifali D  
**CO-PRINCIPAL INVESTIGATOR:** Fusak B, Chagon C  
2010 - in progress | HHS Health Professional Research Award $4,200

**Phase II study of acupuncture-like transcutaneous stimulation (ALTENS) in the management of vasomotor symptoms induced by breast cancer treatments.**  
**PRIMARY INVESTIGATOR:** Wong R  
**CO-INVESTIGATORS:** Sagar S, Levine M, Hayward J  
2010 - 2011 | Juravinski Cancer Centre Foundation  
BRIGHT Run Funds $43,776

Back to basics: building nursing capacity to improve the quality of care to patients and developing healthy workplace environments.
**PRIMARY INVESTIGATOR:** Caron C  
**CO-INVESTIGATOR:** Ireland S  
2009 - 2010 | New Graduate Guarantee Nursing Reinvestment Funds HHS $20,470

A study evaluating the satisfaction of patients seen by advanced clinician practitioner in arthritis care (ACPAC) program-trained advanced practice practitioners in Ontario.
**PRIMARY INVESTIGATORS:** Kennedy C (Local PI), Samanta S  
**CO-INVESTIGATORS:** Kennedy C, Warmington K  
2009 - 2010 | $19,130

Oncology nurse perceptions of clinical priorities and strategies for promoting evidence-based practice.
**PRIMARY INVESTIGATOR:** Bryant-Lukosius D  
**CO-INVESTIGATORS:** Martelli-Reid L, Wiernikowski J  
2008 - 2008 | Juravinski Cancer Centre $7,409

**Unfunded Research**

**Generating a patient safety culture profile using 3 research tools.**  
**PRIMARY INVESTIGATOR:** Zimmerman R  
**CO-INVESTIGATOR:** Law M  
2009 - 2009

**Pediatric surgical safety: we’re doing it here.**  
**PRIMARY INVESTIGATOR:** Mitchell C  
**CO-INVESTIGATORS:** Young A, Bailey A  
2010 - ongoing

**Exploring health care teamwork in adult neuroscience rehabilitation.**  
**PRIMARY INVESTIGATOR:** Haycock P  
**CO-INVESTIGATOR:** Low K  
2010 - 2011

**Cost and outcome of endovascular coiling versus surgical clipping for subarachnoid hemorrhage patients: 2 year analysis.**  
**PRIMARY INVESTIGATOR:** Martin-Gaspar C  
**CO-INVESTIGATORS:** Gunnarsson T, Klurfan P  
2007 - 2009

**Outcomes of patients lost to follow-up post joint replacement.**  
**PRIMARY INVESTIGATOR:** Seaborne E  
**CO-INVESTIGATOR:** Debeer J  
2008 - 2011

**Enhancing professional competencies by bridging the research practice gap.**  
**PRIMARY INVESTIGATOR:** Martelli-Reid L  
**CO-INVESTIGATORS:** Hapke S, Know N, Micsone M, Poirier J, Zywine C  
2008 - 2008
Presentations


Harkness K, Makdessi A, McKelvie RS. The Dutch Objective Burden Inventory - validity and reliability testing in Canada. Heart Failure Society of America, San Diego, California, September, 2010.


Harkness K. Symptoms of anxiety and depression in heart failure patients and their caregivers. Heart Failure Society of America, Boston, Massachusetts, September, 2009.


Martelli-Reid L, Hapke S, Know N, Miscione M, Poirier J, Zywine C. Enhancing professional competencies by bridging the research practice gap. Canadian Association of Nurses in Oncology (CAnO) Conference, Montreal, Quebec, October, 2009.


Publications

Unfunded Research

Utilization of AFIM to triage stroke patients.
PRIMARY INVESTIGATOR: Rehel D
CO-INVESTIGATORS: McKay E, Whiteman R
2008 - 2010

Is the assessment of motor and process skills (AMPS) an effective outcome measure for inpatient rehabilitation?
PRIMARY INVESTIGATOR: Pettit S
CO-INVESTIGATORS: Ansley B, Woodhouse L
2009 - 2009

Presentations


“...enabling people to perform meaningful and purposeful activities.”
Funded Research

The NAPS pilot trial – new approaches to pediatric sedation: adjunctive clonidine in the sedation of mechanically ventilated children.

**PRIMARY INVESTIGATOR:** Duffet M  
**CO-INVESTIGATORS:** Cook D, Meake M, Choong K, Menon K  
2009 - 2010 | HHS New Investigator Fund **$24,000**

Presentations


...focusing on safe and effective medication use.

"
Funded Research

**CanWell: a pilot exercise and education program for well cancer survivors.**

**PRIMARY INVESTIGATOR:** Cheifetz O  
**CO-INVESTIGATORS:** Serediuk F, Hladysh G, Woodhouse L, Park Dorsay J, CanWell  
2008 - 2009 | HealthForceOntario Ministry of Health and Long-Term Care $256,000

Unfunded Research

**Evaluating physician perceived barriers to exercise in people with cancer.**

**PRIMARY INVESTIGATOR:** Cheifetz O  
**CO-INVESTIGATORS:** Woodhouse L  
2010 - 2010

**Acupuncture for patients with breast cancer treatment related side effects: a systematic review.**

**PRIMARY INVESTIGATOR:** Cheifetz O  
2009 - 2009

**Effects of physical activity on cancer survival: a systematic literature review.**

**PRIMARY INVESTIGATOR:** Cheifetz O  
2008 - 2008

**Exercise activities, activity levels, and fatigue in adolescents during and following cancer treatment.**

**PRIMARY INVESTIGATOR:** Wright M  
2010 - ongoing

Presentations


Park Dorsay J, Cheifetz O. *Cancer and exercise: let’s get moving!* Canadian Association of Nurses in Oncology Annual Conference, St. John’s, Newfoundland, September, 2008.


Publications


Unfunded Research

**Determining the most efficacious age to fit cranial molding helmets to infants with plagiocephaly and brachiocephaly.**

**PRIMARY INVESTIGATOR:** Litman K  
**CO-INVESTIGATORS:** Reilly P, Hall M, Fung A, Thomas M, Pauley T  
**2009 - 2010**

Presentations

Evaluating the impact of clinical guidelines on therapists’ adoption of virtual reality for brain injury rehabilitation.

PRIMARY INVESTIGATOR: Velikonja D
CO-INVESTIGATORS: Ansley B, Zsofscin J
2010 - ongoing

Developing an assessment battery to study learning, memory and motor performance in children with Angelman Syndrome.

PRIMARY INVESTIGATOR: Summers J
2008 - 2010 | Angelman Syndrome Foundation $31,000

Phase II: evaluating the effectiveness of clinical protocols for therapists using virtual reality in brain injury rehabilitation.

PRIMARY INVESTIGATOR: Velikonja D
CO-INVESTIGATORS: Ansley B, Brum C
2009 - TBD | $20,000


PRIMARY INVESTIGATOR: Couturier J
2009 - 2010 | $98,000

Delivering treatment for oppositional defiant disorder at a distance: a randomized trial. (RCT)

PRIMARY INVESTIGATORS: McGrath P, Cunningham C
2008 - 2012 | CIHR $1,445,704

Optimizing the health of women with substance use issues and their children (Connections).

PRIMARY INVESTIGATOR: Niccols A
2008 - 2013 | $588,231

The early social anxiety project: parenting, social, diagnostic, and psychophysiological correlates of two-year developmental trajectories of children with selective mutism and social phobias.

PRIMARY INVESTIGATOR: Cunningham C
CO-INVESTIGATORS: Boyle MH, Schmidt L, Deal K, St. Pierre J
2007 - 2009 | $149,660

Functional behavioural skills training for young children with autism.

PRIMARY INVESTIGATOR: Reitzel, J
CO-INVESTIGATORS: Szatmari P, Summers J
2007 - 2010 | $150,000

Unfunded Research

Fear avoidance in patients with chronic pain.

PRIMARY INVESTIGATORS: Hapidou E, O’Brien MA
CO-INVESTIGATORS: Patel M, Patla T, des las Heras E
2009 - 2010

Ongoing outcome research of cognitive behavior therapy groups (anxiety, body satisfaction) offered through the pediatric eating disorders and adolescent medicine clinic.

PRIMARY INVESTIGATORS: Van Blyderveen S, Mac Neil B
2009 - ongoing

Causal explanations for success and failure in spinal cord rehabilitation.

PRIMARY INVESTIGATOR: Belciug MP
2006 - 2009
Presentations


McGrath PJ, Cunningham CE, Whitney M, Varalli V, Lingley-Pottie P. *The development of the computer automated telephone help and information system (CATHI) for use in a parenting program.* The Annual Meeting of the Canadian Psychological Association, Montreal, Quebec, 2009.


Publications


Funded Research

**Measuring quality of life in patients with dementia.**
**PRIMARY INVESTIGATOR:** Lamb L  
**CO-INVESTIGATORS:** Montemuro M, Humphrey J  
2009 - 2011 | Juravinski Research Centre **$1,100**

**Genetics uptake study.**  
**PRIMARY INVESTIGATOR:** Bell K  
**CO-INVESTIGATORS:** Zbuk K, Bordeleau L, Learn L  
2009 - 2011 | Juravinski Cancer Centre **$13,000**

Presentations


“…providing psychosocial support to individuals, families, or vulnerable populations so they can cope with chronic, acute, or terminal illnesses.”

Social Work
Funded Research

School reintegration for children and youth with acquired brain injury.

2008 - 2011 | Ontario Neurotrauma Foundation $360,000

Ontario Ministry of Health Promotion. Expansion of the total bone and joint health community based program to 5 YMCA sites.

Hladys G (YMCA), Cripps D (HHS), Hall J (HHS), Woodhouse L (McMaster University), Rand I (Arthritis Society)
2009 - 2010 | HealthForceOntario $308,600

Pilot study of a comprehensive lifestyle program in children receiving treatment for acute lymphoblastic leukemia.

INVESTIGATORS: Nathan P, Wright M, Collins L, Birken C, Dettmer E
2008 - 2009 | Hospital for Sick Children, New Ideas Grant $46,000

Guideline implementation for improvement in client outcomes.

PRIMARY INVESTIGATORS: Davies B, Higuch K
CO-INVESTIGATORS: Ireland S, Ploeg J, Murray MA
2010 - 2012 | RNAO/MOHLC $224, 952

How do patients in a spinal cord injury (SCI) regional rehabilitation centre envision their role within the health care team.

PRIMARY INVESTIGATOR: Draaistra H
CO-INVESTIGATORS: Ireland S, Duff D, Harpe T, Ratti R
2010 - 2011 | $1,000

Job satisfaction among advanced practice physiotherapists working in Canada.

PRIMARY INVESTIGATOR: Boljanovic-Susic D
CO-INVESTIGATORS: Toffolo N, Woodhouse L
2010 - ongoing

Presentations


---

**Legend of Abbreviations**

**CHORD**
- Centre for Healthcare Optimization
- Research and Delivery

**CIHR**
- Canadian Institutes of Health Research

**HHS**
- Hamilton Health Sciences

**MOHLTC**
- Ministry of Health and Long Term Care

**PHRED**
- Public Health Research, Education and Development

**RNAO**
- Registered Nurses’ Association of Ontario

**SSHRC**
- Social Sciences and Humanities Research Council
For information on how to contribute to Hamilton Health Sciences' research vision, contact:
Hamilton Health Sciences Foundation
P.O. Box 739, LCD 1
Hamilton Ontario L8N 3M8
905.522.3863

www.hamiltonhealth.ca