

Public Health Research, Education & Development (PHRED) Program

2010 Provincial Work Plan

Presented to the Ministry of Health and Long-Term Care,
Public Health Division

City of Hamilton Public Health Services

Kingston, Frontenac and Lennox & Addington
Public Health

Middlesex-London Health Unit

Ottawa Public Health

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For more information contact:

Isabelle Michel
Chair, Provincial PHRED Operations Committee
Sudbury & District Health Unit
1300 Paris Street
Sudbury, ON P3E 3A3
705-522-9200, ext. 258
micheli@sdhu.com

Kate Pautler
PHRED Operations Committee Manager
Caislyn Consulting Inc.
P.O. Box 24 Stn. Main
Parry Sound, ON P2A 2X2
705-746-2073
pautlerk@sdhu.com

Contact information for all provincial PHRED Program sites is provided on page 13.

This work plan is also available on the PHRED Program website at: www.phred-redsp.on.ca.

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Introduction

The Public Health Research, Education and Development (PHRED) Program is a reliable source of information and expertise related to research, knowledge exchange, education and development to support public health practice. The PHRED Program serves as a bridge between public health practitioners and policy makers, and education/academia.

The PHRED Program operates in five Ontario health unit sites: Hamilton, Kingston, Middlesex-London, Ottawa and Sudbury. Its strength lies in its people—who possess a unique mix of academic and public health practice backgrounds—and their ability to build local and provincial partnerships and relationships that facilitate generating and applying knowledge. The Program's roots extend back almost three decades having evolved from the teaching health units established by the Ministry of Health in 1983. The year 2010 marks the end of the PHRED Program with the transfer of the provincial PHRED funding and functions to the Ontario Agency for Health Protection and Promotion.

The purpose of the 2010 Work Plan is to describe the current projects in the areas of research, knowledge exchange, education and development. The provincial-level PHRED initiatives have a strategic focus this year to ensure that the Program is completed in an efficient manner, ensuring all relevant parties are aware of developments, ensuring the PHRED legacy is documented and that relevant PHRED deliverables and products continue to be made available to partners who can best use them.

This document presents the provincial level initiatives first, followed by the joint initiatives organized according to key PHRED Program functions: Applied Public Health Research and Evaluation, Education and Development, Knowledge Exchange, Workforce Development and Core Competencies.

All of these projects continue to be relevant to the delivery of public health services across the province. They have implications for public health policy, practice, and the overall growth and development of the public health system at local and provincial levels.

As the 36 Ontario public health units implement the newly revised Ontario Public Health Standards, we recognize that many projects led by the PHRED Program reflect elements of the Foundational Standard including research, evaluation and knowledge exchange. This represents a unique and timely opportunity to bring forward many outcomes and lessons from this and previous years' work to support the delivery of public health across the province.

Goals of the PHRED Program

The goals of the PHRED Program are to:

1. Provide evidence to support effective and efficient public health practice and improve accountability in public health practice.
2. Increase capacity within the public health system by providing leadership in the education of future public health professionals.
3. Provide leadership in research, knowledge exchange and education through strategic partnerships.

PHRED Program 2010 Provincial Work Plan

1.0 Provincial Planning and Coordination

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
1.1 Provincial PHRED Secretariat	SDHU All PHRED Sites	<p>The PHRED Secretariat, under the direction of the PHRED Operations Committee will:</p> <ul style="list-style-type: none"> • Facilitate an annual planning process and create a plan that then guides the annual budget cycle/work planning cycle. • Coordinate dissemination of lessons learned from all types of PHRED projects, regarding how to improve public health practice through research, evaluation, education and staff development, and about knowledge exchange in particular. • Facilitate Provincial PHRED Operations monthly, and special meetings. • Facilitate production and dissemination of regular internal newsletters to support communication with PHRED staff, public health practitioners, PHRED Medical Officers of Health (MOHs). • Prepare PHRED Steering Committee reports, annual work plan and deliverables report. • Undertake necessary research and prepare Briefing Notes on key issues as needed. • Manage all communications and maintain PHRED documentation and archives. • Facilitate the Wind Down Management Plan including oversight the PHRED archiving project. 	Funded to end of December 2010
1.2 PHRED Staff Professional Development	All PHRED Sites	A professional development workshop for PHRED staff to be defined in partnership with National Collaborating Centre for Methods and Tools (NCCMT); to be held in Toronto; and to focus on Knowledge Translation in Public Health. The purpose of the workshop is to help public health staff develop skills to apply evidence in practice and policy. This topic is of particular relevance to the Foundational Standard.	April 2010
1.3 PHRED Glossy	All PHRED Sites	The PHRED Operations Committee will oversee the development and production of a 2010 summarizing account of the PHRED history and story.	December 2010

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
1.4 PHRED Archiving	All PHRED Sites	The PHRED Operations Committee will oversee the archiving of key provincial PHRED products: <ul style="list-style-type: none"> • Working group to be established. • Host for archive to be identified. • Comprehensive inventory of documents created. • Identified materials to be collected. • Retention record to be created. • Storage and shipping arrangements to be made and implemented. 	December 2010
1.5 PHRED Closure at Site Level	All PHRED Sites	PHRED Operations Committee to create a Wind Down Management plan including but not limited to: <ul style="list-style-type: none"> • Consideration of staff impact, contracts, and commitments. • Dissolution of formal relationships. • Archiving of program records at individual sites. • Identification of point person at each site to respond to PHRED enquiries post-closure. 	MLHU May 14, 2010 All other sites December 2010
1.6 PHRED Communications	SDHU HPH All PHRED Sites	<ul style="list-style-type: none"> • Development and implementation of a communication plan to apprise the Public Health community of the dissolution of the PHRED Program. • Develop two issues of PHRED internal newsletter. • Maintain and update PHRED Website (Hamilton). 	December 2010 May 2010 December 2010
1.7 Journal Articles	All PHRED Sites	PHRED leads to collaborate on publishing academic articles: <ul style="list-style-type: none"> • To include evaluation piece focussing on the Teaching Health Unit/PHRED Model. • Other themes/ topics to be identified drawing from the PHRED's contributions to the field of public health in Ontario. 	December 2010
1.8 Sustainability of select PHRED products	All PHRED Sites	PHRED leads to advocate for sustainability of key PHRED products such as: <ul style="list-style-type: none"> • email notification of funding opportunities, • benchmarking, and • PHRED Connection. 	December 2010

2.0 Applied Public Health Research and Evaluation

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
2.1 PRIMARY RESEARCH PROJECTS: Chronic Disease Prevention			
2.1.1 Latino Families in Action: A Community-Based Obesity Intervention Program	MLHU	<ul style="list-style-type: none"> • <i>Families in Action</i> is a community-based obesity intervention program which offers a promising strategy for screening and engaging overweight Latino-Canadian children and their families. • This research supports the Foundational Standard—research and knowledge exchange and other relevant program standards. 	July 2010
2.1.2 Healthy & Active Preschooler Program – YMCA (HAPPY): Issues, Challenges, and Perspectives Regarding Physical Activity at Daycare	MLHU	<ul style="list-style-type: none"> • This research is designed to explore issues around the provision of physical activity in childcare facilities. • The purpose of this project is to gain an understanding of childcare providers' perspectives on their daycare's current physical activity curriculum; the barriers and facilitators to effectively engaging preschool-aged children in physical activity; and possible opportunities to advocate for enhanced physical activity participation among preschoolers attending daycare. • A community advocacy plan will be developed based on the focus group findings to aid stakeholders in: 1) understanding current physical activity practices; 2) overcoming the barrier(s) identified by frontline childcare providers; and 3) facilitating improved physical activity opportunities in daycares. • Supports Foundational Standard—research and knowledge exchange and other relevant program standards. 	June 2010
2.1.3 Locating Barriers and Supports to Risk Modification in Coronary Heart Disease (CHD)	SDHU Laurentian University University of Toronto University Health Network	This study is nested within the Community Outreach in Heart Health and Risk Reduction Trial (COHRT). This qualitative study strives to learn more about the experiences of COHRT or Cardiac Rehabilitation Program participants within 6 to 12 months after completing the intervention. Photo-elicitation interviews are used to explore the experiences of urban Anglophones, northern Anglophones and northern Francophones.	Timeline for manuscript: December 2010
2.1.4 Public Health-Primary Care Collaboration for Diabetes Prevention	HPH	Phase II will focus on piloting and evaluating a direct link between Public Health Services (specifically Women Health Educators and Public Health Nurses) and 1–2 primary care agencies committed to diabetes prevention. Phase II will provide an opportunity to pilot the draft process template for collaboration and implement recommendations produced in Phase I of the project, such as facilitating knowledge exchange, building relationships through on-site presence, improving communication, linkage to services through a client goal oriented approach, and addressing cultural needs.	December 2010

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
2.2 PRIMARY RESEARCH PROJECTS: Environmental Health			
2.2.1 Hamilton Child Blood Lead Research Study	HPH	The main objective of the study is to provide an estimate of the prevalence of blood lead levels ≥ 0.48 $\mu\text{mol/L}$ as well as clinically actionable blood lead levels (> 0.19 $\mu\text{mol/L}$) among children six years of age or under residing within a targeted geographic area in the City of Hamilton judged to be at increased theoretical risk of environmental lead exposure. A secondary objective is to explore the influence of risk factors and environmental lead levels on children's blood lead levels within our sample.	Final report in early 2010
2.2.2 McMaster Institute for the Environment and Health (MIEH)	HPH MIEH	MIEH will continue to work with Hamilton Public Health on such projects as: Beach Water Quality Modeling and Surveillance; Air Quality Modeling; Testing and evaluation of Microcystin Testing Kits for Cyanobacteria (blue-green algae); Revisions to Current Food Handler Certificate Program, and Geographic Information System (GIS) and Spatial Analysis of Blood Lead Data.	December 2010
2.2.3 Interactive Outbreak Module	HPH	This project involves the development of an interactive, computer-based Outbreak Investigation Learning Module. The first full draft of the module has been completed and is currently being reviewed for content and technical integrity. User piloting will be completed by May 31 st with any corrections coming out of the piloting being made in June. Arrangements for posting the module on the Canadian Institute of Public Health Inspectors (CIPHI) website will be made over the summer with the product going live in September.	December 2010
2.2.4 Predictive Modeling of Beach Water	HPH	This project will collect data to identify potential environmental variables that might affect E. Coli levels in the water at Hamilton beaches and determine if a statistical model can be developed to identify correlations between measured environmental variables and E. Coli levels in beach water. Findings will assist with improving recreational use of Hamilton's beaches, reduce the risk of human exposure to polluted waters, and assist with reducing adverse environmental impacts on Hamilton Beach Water Quality.	December 2010
2.2.5 Air Quality and Health Study	HPH	This project will estimate the public health impact of exposure to air pollutant concentration levels, as well as assign a monetary value to these impacts within the City of Hamilton. Health Canada's Air Quality Benefits Assessment Tool will be used to estimate the human health and welfare benefits or damages associated with changes to ambient air quality.	2010

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
2.3 PRIMARY RESEARCH PROJECTS: Family Health			
2.3.1 Nutrition Screening Tool for Every Preschooler (NutriSTEP®) Project	Nutrition Resource Centre (NRC) SDHU University of Guelph: Dr Heather Keller and Dr Janis Randall Simpson	Nutrition Screening Tool for Every Preschooler Supporting Implementation in Ontario: <ul style="list-style-type: none"> • Develop evaluatino plan and begin work on key tools. • Members of Provincial Program Advisory Committee (PAC), meet quarterly. • Advocate for enhanced NRC capacity (via inclusion of NutriSTEP® program in various proposals/briefing notes submitted from key stakeholders); successful inclusion of NutriSTEP® in at least one stakeholder proposal. • Explore feasibility of including NutriSTEP® as component of provincial child healthy weights/health surveillance system/data sources; contact/presentations made to at least two provincial bodies responsible for child health surveillance. *Evaluation Plan covers: Program Uptake; Program Materials; NRC Capacity; Parent Participation/Effective Recruiting; Parent Nutrition Education Awareness; Screening of Children; NutriSTEP® as a Surveillance Tool; Overall Effectiveness; NutriSTEP® Tool Revision.	On-going into 2010 to 2011. Many activities are listed in the Evaluation and Strategic Framework Plan and are contingent upon external funding success.
2.3.2 Development and Validation of Toddler NutriSTEP®	University of Guelph: Dr Heather Keller and Dr Janis Randall Simpson NRC SDHU	NutriSTEP® has gone through extensive development to ensure that it meets the needs of Canadian preschoolers (ages 3–5 years)and is understood by parents. The specific objective for this research funded by CIHR is to adapt/ develop the current NutriSTEP® questionnaire for toddlers (ages 18–35 months) using the previously-established methodological template.	April 2010 to March 2012
2.3.3 Rapid Risk Factor Surveillance System (RRFSS) Analysis— Healthy Eating & Active Living (HEAL) Awareness & Waist Circumference (WC) Modules	MLHU	Data from all health units participating in two RRFSS modules, 1) the Awareness of the Action Plan’s key messages and 2) WC developed for the evaluation of the HEAL Action Plan will be analyzed. A summary report will be produced. Overall results will provide a measurement of the level of awareness of a sample of Ontarians to the Action Plan’s key messages and an estimate of the percentage of Ontarians who are at risk of obesity-related diseases based on their predicted WC.	January 2009 to Spring 2010

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
2.3.4 Perinatal Mood Disorder Desk Reference: Evaluating Primary Care Providers' Acceptance and Use	HPH McMaster University	This project will evaluate the acceptance by physicians and primary care providers of a tool designed to bridge primary care and mental health services in order to enhance women's care seeking and increase the likelihood they would receive appropriate assessment and treatment when experiencing, or at risk for experiencing, perinatal mood disorders. The project will evaluate the use and effectiveness of a tool for physicians and primary care providers designed to improve Perinatal Mental Health care provision and care coordination.	December 2010
2.3.5 Infant Feeding Survey	HPH	This project will look at factors that influence infant feeding intentions and practice among women of infants 0–12 months within 11 health units in Ontario including Hamilton.	December 2010
2.3.6 Nurse Family Partnership (FNP)	HPH McMaster University	The NFP is an effective, evidence-based approach to improving the health and life-course of low-income, first-time mothers and their children. This research study is testing the feasibility and acceptability of implementing the NFP program with Public Health Nurses (PHNs) in Hamilton and local first-time mothers. In addition, we are testing procedures for recruitment, strategies for retention of the sample, the feasibility and methods for collecting child maltreatment data from local child protection agencies, collecting hospital visit data for mothers and children, and collecting clinical and interview data from participants.	December 2010
2.3.7 Expansion of the PHN Secondment Evaluation	HPH Hamilton Family Health Team	This project evaluates the Public Health Nurse Secondment to the Hamilton Family Health Team to increase capacity in primary care practices to implement the enhanced 18-month well baby visit. The evaluation will describe the process and lessons learned in the development of the PHN Secondment model to inform future collaboration with primary care.	December 2010
2.3.8 Maternal Sensitivity	HPH McMaster University	The goals of the pilot study are: 1) to determine the feasibility of utilizing Public Health Nurses to use the Dutch sensitivity intervention during home visits with mothers diagnosed with Post Partum Depression; and 2) to determine if the use of this intervention is potentially effective in increasing maternal sensitivity. This feasibility study is designed to identify challenges in the identification of the sample, the enlistment and recruitment of participants, the acceptance of the measures, and the implementation of the intervention.	December 2010

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
2.4 PRIMARY RESEARCH PROJECTS: System Level			
2.4.1 Renewal of Public Health Systems (RePHS)	McMaster University Ontario Agency for Health Protection and Promotion (OAHPP) Ministry of Health and Long-Term Care (MOHLTC) – Public Health Division MLHU OPH SDHU	Compares and contrasts the implementation of the core public health functions in British Columbia and the Ontario Public Health Standards (OPHS) in Ontario. Elements being evaluated include process, impact, workforce implications, primary care and equity.	2014
2.4.2 Ontario Childhood Healthy Weights Surveillance System	Association of Local Public Health Agencies (aLPHa) OAHPP PHRED (MLHU) Association of Public Health Epidemiologists in Ontario (APHEO) Ontario Society of Nutrition Professionals in Public Health (OSNPPH) Council of Medical Officers of Health of Ontario (COMOH) Ministry of Education Ministry of Health Promotion (MHP)	The intended outcome is a sustainable surveillance system to monitor the heights and weights of Ontario's Grade 2 children.	Development of a surveillance system which will be piloted and evaluated in 2010.

3.0 Education and Development

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
<p>3.1 Provide Student Experiences Relevant to Public Health</p>	<p>All PHRED Sites</p>	<ul style="list-style-type: none"> • Students in public health related disciplines, including graduate, undergraduate and post professional licensure students, including community medicine residents are offered a variety of placement opportunities in public health units. Staff provide a variety of supports to students and serve on program advisory committees. • Specific examples for community/public health nutrition student development include: Research training for Northern Ontario Dietetic Internship Program (NODIP) interns; Coordination of South Eastern Ontario Dietetic Internship Program; and teaching and Program Advisory Committee membership at the University of Toronto Master of Science Community Health. • KFL&A Public Health has, for the past 17 years, sponsored the Southeastern Ontario Dietetic Internship Program. Six dietetic interns are scheduled to graduate in June 2010 and thus be able to write their registration exam to become Registered Dietitians with the College of Dietitians of Ontario. • Six dietetic interns with a minimum of an Honours degree in Food & Nutrition have been accepted at KFL&A Public Health for the 2010 to 2011 year. Placement locations in this regional program spread from Lanark to Cobourg. • 16 dietetic interns have been accepted at SDHU for the 2010 to 2011 year. 	<p>December 2010</p> <p>September 2009 to June 2010</p> <p>September 2010 to June 2011</p>
<p>3.2 Sponsor and Support Student Research</p>	<p>All PHRED Sites</p>	<ul style="list-style-type: none"> • Students are supported to conduct relevant research within PHRED sites. • Research for graduate thesis projects is conducted in PHRED sites, with PHRED staff providing supervision. • SDHU's and Laurentian University's Louise Picard Public Health Research Grant routinely includes students as project research assistants. • MLHU PHRED, supported the development of a thesis topic: Physical activity in preschool-aged children: A meta-analysis. • KFL&A PHRED provides a PHRED studentship, consisting of financial support for one year to a master's level graduate student doing a project at KFL&A Public Health in an area of relevance to public health practice. The 2009 to 2010 student is looking at the safety of human papillomavirus (HPV) vaccine. A student will be accepted for 2010 to 2011. 	<p>Students are encouraged to continue to study issues related to public health. Provide research related student placements.</p> <p>December 2009</p>

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
3.3 Focus on Feedback®	KFL&A	Focus on Feedback® is a Dietitians of Canada “train-the-trainer” approach to preceptor professional skill development. It will continue to be provided to the Southeastern Ontario Dietetic Internship program preceptors as well as to preceptors from a variety of public health professions.	2010
3.4 Evaluation of the Enhancing Your Preceptor Practice: Workshop Reach And Teach Kits	PHRED Connection – All PHRED Sites	This evaluation which was initiated in 2009 will be completed and will provide feedback on the utility of the Reach and Teach Kits.	2009 – Disseminate the resource 2009 to June 2010 – Evaluation

4.0 Knowledge Exchange

Project	Project Lead (Bolded) Project Partners	Description of Work/Deliverables	Timeline
4.1 RRFSS Website Evaluation	KFL&A	<ul style="list-style-type: none"> • Relevant to all health units. Of strategic importance as the final report (2008) identified issues to be considered in the transition of RRFSS to the Agency. • A publication regarding the RRFSS Website Evaluation will be produced. 	2010
4.2 Evaluation of the Health Effects of Wind Turbines	KFL&A	Wind turbines have been or are being considered in multiple health unit areas. There is much controversy about the health effects of wind turbines, and there is a vast range in the quality of supporting evidence. This report will assess the quality of available research and summarize the findings.	2010

5.0 Workforce Development and Core Competencies

Project	Project Lead (Bolted) Project Partners	Description of Work/Deliverables	Timeline
5.1 Benchmarking Website	OPH	<ul style="list-style-type: none"> • Sustain website; identify a long term strategy. • Continuously monitor use. <p>The web site will be sustained until December 2010. A user survey will be conducted in September. Discussions will be initiated with the MOHLTC and the Ontario Agency for Health Protection and Promotion, to explore maintenance and sustainability of this resource.</p>	December 2010
5.2 West End Flood Manuscript	OPH	A manuscript describing OPH's response to the July 2009 flood in the Ottawa's west end, and discussing the role of, and implication for Public Health in responding to floods.	Fall 2010
5.3 Adaptation of the Competency- Based Performance Management for Public Health Toolkit (Ontario Public Health Association (OPHA) & Partners, 2009) for Use with Public Health Nurses	HPH OPHA & Partnering Health Units	<p>The project will focus on:</p> <ol style="list-style-type: none"> 1. Evaluating the potential for adapting the Competency-Based Performance Management for Public Health Toolkit (OPHA & Partners, 2009) for use with Public Health Nurses. 2. Adapting the tools within the toolkit to align with the new Public Health Nursing Discipline Specific Competencies Version 1.0. 3. Developing a plan for pilot testing the use of the adapted tools, on a limited basis, in 2011. 	December 2010

Contact Information – Provincial PHRED Program Sites

City of Hamilton Public Health Services (HPH)

1 Hughson Street North, Hamilton ON L8R 3L5

Colleen Van Berkel
Manager, Planning & Business Improvement
Tel: 905-546-2424, ext. 5916
Fax: 905-546-2203
Email: Colleen.Vanberkel@hamilton.ca

Elizabeth Richardson
Medical Officer of Health
Tel: 905-546-2424, ext. 3501
Fax: 905-546-4075
Email: Elizabeth.Richardson@hamilton.ca

Kingston, Frontenac and Lennox & Addington Public Health (KFL&A)

221 Portsmouth Avenue, Kingston ON K7M 1V5

Kathleen O'Connor
Director, Research and Education Division and
PHRED Program
Tel: 613-549-1232, ext.1578
Fax: 613-549-7896
Email: koconnor@kflapublichealth.ca

Ian Gemmill
Medical Officer of Health
Tel: 613-549-6420, ext. 1234
Fax: 613-549-7896
Email: igemmill@kflapublichealth.ca

Middlesex-London Health Unit (MLHU)

50 King Street, London ON N6A 5L7

Charlene Beynon
Director, PHRED Program and Research Education
Evaluation & Development (REED) Services
Tel: 519-663-5317, ext. 2484
Fax: 519-432-9430
Email: charlene.beynon@mlhu.on.ca

Graham Pollett
Medical Officer of Health
Tel: 519-663-5317, ext. 2444
Fax: 519-663-9581
Email: graham.pollett@mlhu.on.ca

Ottawa Public Health (OPH)

100 Constellation Crescent, 7th Floor West, Nepean ON K2G 6J8

Orhan Hassan
Program Manager, Evidence Unit
Tel: 613-580-6744, ext. 43689
Fax: 613-580-9601
Email: orhan.hassan@ottawa.ca

Isra Levy
Associate Medical Officer of Health
Tel: 613-580-6744 , ext. 23675
Fax: 613-580-9601
Email: Isra.Levy@ottawa.ca

Sudbury & District Health Unit (SDHU)

1300 Paris Street, Sudbury ON P3E 3A3

Isabelle Michel
Director, PHRED Program and Resources, Research,
Evaluation and Development Division
Tel: 705-522-9200, ext. 258
Fax: 705-677-9602
Email: micheli@sdhu.com

Penny Sutcliffe
Medical Officer of Health
Tel: 705-522-9200, ext. 291
Fax: 705-677-9606
Email: sutcliffep@sdhu.com