

2007 Annual Report

May 14, 2008

The Public Health Research, Education and Development Program of
Kingston, Frontenac and Lennox & Addington Public Health



An accredited local public health agency affiliated with Queen's University

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Director's Report

It has been a busy year for PHRED. All PHRED staff were engaged to some extent in provincial work, encompassing evaluations of Ontario's Healthy Eating, Active Living strategy, an evaluation of the Rapid Risk Factor Surveillance System website and participation on many advisory committees, including those guiding a literature review of Food Security and Obesity for the Effective Public Health Practice Project and an analysis of Canadian Community Health Survey, Cycle 2.2. nutrition data.

At the same time, the number of internal program evaluations and community health status reports has grown over the past year. Two major research projects that were initiated in 2007 are especially ambitious and deserve special mention. *Motiv8* is an initiative of KFL&A Public Health targeting adults in multiple settings. *Motiv8* encourages all adults to eat well, get fit and live life through the promotion of eight healthy behaviours—*Eat a healthy breakfast every day, Re-think your snack, Be active every day, Choose water, Enjoy more vegetables and fruit, Make meals at home, Breastfeed your baby, and Watch less TV.* A comprehensive evaluation will address both long-term and short-term objectives over a five year period. The second project is an Infant Feeding Survey following mothers of infants from birth to twelve months to determine local feeding practices. Variables to be examined include breastfeeding initiation rates, the extent and duration of breastfeeding, and practices related to the introduction of solid foods. The survey will also collect data to allow us to evaluate a related project, which is the introduction of the services of a Public Health Nurse trained as a Lactation Consultant into the hospital setting. The study is designed to determine whether access to a Lactation Consultant immediately after birth affects breastfeeding initiation and duration rates.

We offered placements to 75 students in 2007 and the number of lectures and presentations by KFL&A Public Health staff to students doubled in 2007. Our Research Scientist was engaged in teaching two courses to medical students. We continue to have an extensive list of publications, reports and presentations, and our library remains a busy place.

The legislation establishing the Ontario Agency for Health Protection and Promotion received Royal Assent on June 4, 2007. An inaugural board was formed with Dr. David Walker as chair. At the time of writing, Dr. Vivek Goel has been appointed as the President and Chief Executive Officer, effective July 1, 2008. It was recommended in the final report of the Capacity Review Committee, *Revitalizing Ontario's Public Health Capacity*, that funding and direction of the PHRED Program would be undertaken

by the Ontario Agency. As we look forward to 2008, therefore, we anticipate further changes for the PHRED Program with the accomplishment of this goal. Change has been part of PHRED's history since the early 1990's, so we are well acquainted with some degree of uncertainty. While we embrace the opportunities that transition to the Ontario Agency will undoubtedly open up, we hope that here PHRED will find a comfortable home for the foreseeable future.

Respectfully submitted,

Kate O'Connor,

Director of the PHRED Program,
KFL&A Public Health.

Public Health Research

Research Projects Completed in 2007

Provincial (Collaborative) PHRED Projects

Systematic Review of Food Security and Obesity

Description: A systematic review of literature investigating the association between food insecurity and obesity. This review was conducted by the Effective Public Health Practice Project.

Investigators: Marlene Mirza and Sandra Micucci (EPHPP)

Local PHRED Staff: Marie Traynor

Funding: Ontario Ministry of Health and Long-term Care, Ontario Ministry of Health Promotion

Completion Date: May 2007

Northern Ontario Fruit and Vegetable Pilot Program

Description: A comprehensive evaluation of the Northern Ontario Fruit and Vegetable program, which supplies fresh fruit and vegetables to students in selected schools in Northern Ontario.

Investigators: Charlene Beynon, Meizi He, Betty Anne Horbul, Linda Khoshaba, Suzanne Lemieux, Elaine Murkin, Michelle Sangster-Bouck, Renée St. Onge, Susan Stewart

Local PHRED Staff: Susan Stewart

Funding: Ministry of Health Promotion (\$155,000)

Completion Date: December, 2007.

Public Health Research Ethics Toolkit

Description: This project was designed to assess the needs of Ontario public health units (PHU) for information about processes for the ethical review of research projects. The project included a survey of PHU with respect to current practice.

Investigators: Jo Beyers, Sherry Biscope, Donna Ciliska, Susan Moxley, Kathleen O'Connor, Michelle Sangster Bouck, Ido Vettoretti

Local PHRED Staff: Kathleen O'Connor

Funding: Internal

Completion Date: December, 2007.

Analysis of CCHS Cycle 2.2 Nutrition Data

Description: Analysis of CCHS Cycle 2.2 data on body weight status, dietary intake patterns and nutritional vulnerability. Results will contribute to policy development and program decisions.

Investigators: Valerie Tarasuk, Janet Vogt

Advisory Committee: Katherine Haimes, Meizi He, Colleen Kiel, Bridget King, Dar Malavariarcci, Mary-Jo Makarchuk, Elizabeth Rael, Renée St. Onge, Marie Traynor

Local PHRED Staff: Marie Traynor

Funding: Ministry of Health Promotion

Completion Date: December, 2007.

Local PHRED Projects

Family Enrichment Program

Description: An evaluation of the Family Enrichment Project, which is a joint project of Lennox & Addington Child and Family Services and the Healthy Babies, Healthy Children program. The evaluation of this pilot project was used to determine if the project would continue and, if so, future direction for this collaborative effort.

Investigators: Heather Johnston, Darlene Keech, Susan Stewart

PHRED Staff: Susan Stewart

Funding: Internal

Completion Date: June, 2007.

A Review of the Literature on Driver Distraction

Description: A review of the literature concerning outcomes of various forms of driver distraction including cell phone use.

PHRED Staff: Deborah Crooke, Melanie Dittburner

Funding: Internal

Completion Date: July, 2007.

Response to a Physical Activity Specialist in Elementary Schools

Description: A secondment agreement between KFL&A Public Health and the Limestone District School Board allowed a teacher to become a Physical Activity Specialist with Public Health. The Physical Activity Specialist was responsible for promoting physical activity and assisting with provincial requirements to conduct Daily Physical Activity in elementary schools. This project collected feedback from 16 key stakeholders, in the form of qualitative data.

Investigators: Jennifer Robertson, Darlene Mecredy, Janine Monahan

PHRED Staff: Jennifer Robertson

Funding: Limestone and District School Board (\$27,400) and Internal (\$77,223)

Completion Date: November, 2007

Survey of Knowledge, Attitudes and Practices about HPV Vaccines Use and their Potential Impact on Cervical Screening Interventions

Description: This study surveyed the knowledge, attitudes and practices of Ontario physicians regarding HPV immunization.

Principal Investigators (Ontario): Peter Bryson, Saul Greenberg, Robbi Howlett, Susan MacDonald, Joan Murphy

PHRED Investigators: Dr. I. Gemmill, Susan Stewart, Kathleen O'Connor

Completion Date: December 2007.

Parents' Knowledge of Childhood Immunizations, and Barriers to the Immunization of their Children

Description: This study assessed parental knowledge of the components and side effects of Prevnar and Pentacel as indicators of their knowledge of childhood immunizations in general. In addition, this study assessed barriers to immunization among parents whose children were not immunized according to the schedule recommended by the Ontario Ministry of Health.

Investigator: Kathleen O'Connor

PHRED Staff: Kathleen O'Connor, Jennifer Robertson

Funding: Wyeth Pharmaceuticals (\$42,279)

Completion Date: December, 2007.

Health Status Reports

Community Profiles: Indicators for Children and Youth in the South East Region

Description: The Community Profiles reports provide detailed information on the demographics, health and well-being for children and youth in four Eastern Ontario health units.

Authors: S. Lehtimaki, P. Jones, M. Hughes, E. Sheridan, E. Cassell, J. Deschamps-Baird, S. Sinclair, D. Remington.

Completion Date: May, 2007

RRFSS in KFL&A January – December 2006

Description: An analysis of health indicators in KFL&A collected through the Rapid Risk Factor Surveillance System (RRFSS) in 2006.

Author: Suzanne Sinclair

Funding: Internal

Completion Date: July, 2007

A KFL&A Community Health Status Report: Focus on Overweight, Obesity and Physical Activity.

Description: An analysis of indicators related to weight, physical activity and sedentary behaviours in KFL&A.

Author: Suzanne Sinclair

Funding: Internal

Completion Date: December, 2007

Ongoing Research

Provincial (Collaborative) PHRED Projects

Measuring Fruit and Vegetable Intake Among Young Children: A Search for a Valid and Reliable Tool

Description: This project aims to find a valid, reliable tool to measure fruit and vegetable consumption in children aged 4-9. Search strategies include a thorough search of the literature, including grey literature, as well as interviews with content experts.

Investigators: Danielle Battram, Charlene Beynon, Paula Dworatzek, Meizi He, Larissa Lenhardt, Elaine Murkin, Michelle Sangster-Bouck, Renée St. Onge, Susan Stewart

Local PHRED Staff: Susan Stewart

Funding: Ministry of Health Promotion (\$38,851)

Start and Anticipated Completion Dates: October, 2006 – March, 2007.

Process Evaluation of Ontario's Action Plan for Healthy Eating and Active Living

Description: The Process Evaluation for the implementation of Ontario's *Action Plan* aims to identify factors that are facilitators or barriers (challenges). The Process Evaluation will include exploratory interviews with key informants, a web-based survey, and in-depth interviews.

Investigators: Danielle Battram, Charlene Beynon, Meizi He, Elaine Murkin, Michelle Sangster-Bouck, Renée St. Onge, Susan Stewart

Local PHRED Staff: Susan Stewart

Funding: Ministry of Health Promotion (\$348,931)

Start and Anticipated Completion Dates: Phase I: January, 2007 – March, 2008; Phase II: May, 2008 – December, 2008.

Evaluation and Enhancement of the Rapid Risk Factor Surveillance System (RRFSS) Website

Description: This evaluation was designed to determine how the RRFSS website can be enhanced to meet the needs of public health, to develop and test enhancements to the website, to determine what resources, financial and personnel, are required to maintain the enhanced website and to suggest further, long-term improvements.

Investigators: Amira Ali, John Barbaro, Nancy Churchman, Alanna Leffley, Karen Moynagh, Kathleen O'Connor, Lynn Russell

Local PHRED Staff: Kathleen O'Connor

Funding: Public Health Agency of Canada (\$115,974)

Start and Anticipated Completion Dates: April, 2007 – March, 2008.

Enhancing Your Preceptor Practice: Workshop Reach and Teach Kits.

Description: This project is developing four workshop modules to be used for preceptor education: Critical Thinking, Conflict, Constructive Feedback and Culture and Diversity.

Investigators: London PHRED and PHRED Connection

Local KFL&A Public Health Staff: Cheri O'Dette

Funding: Internal

Anticipated Completion Date: September, 2008.

Validity and Reliability of Self Reported or Self Measured Waistline Among Adult Ontarians

This study will use a cross-sectional sample of adult Ontarians to test the validity and reliability of self-reported, self-measured waistline, along with self-reported clothing size, as compared to professionally measured waistline. A telephone survey module consisting of questions about self-reported waistline and pant size will be tested for validity and reliability against professionally measured waistline.

Investigators: Danielle Battram, Charlene Beynon, Meizi He, Emily Hill, Elaine Murkin, Michelle Sangster-Bouck, Renée St. Onge, Susan Stewart

Local PHRED Staff: Susan Stewart

Funding: Ministry of Health Promotion (\$50,675)

Start and Anticipated Completion Dates: May, 2007 – May, 2008.

Development of RRFSS Modules for Use in the Evaluation of Ontario's Action Plan for Healthy Eating and Active Living

Two RRFSS modules are being developed for use in the evaluation of Ontario's Action Plan. One is a module to assess community awareness of the Action Plan and the other is a module to collect self-reported waistline measurement.

Investigators: Danielle Battram, Charlene Beynon, Evelyn Cross, Melanie Garbarz, Meizi He, Bridget King, Elaine Murkin, Michelle Sangster-Bouck, Renée St. Onge, Susan Stewart, Heather Thomas,

Local PHRED Staff: Susan Stewart

Funding: Ministry of Health Promotion (\$89,030)

Start and Anticipated Completion Dates: May, 2007 – December, 2008.

Public Health Nutrition Practice Enhancement

Description: This project will result in the development of a three year action plan to define public health nutrition practice through consultation within and beyond the discipline, to map existing competency sets found through situational assessment to PHAC's core competencies for public health, and to investigate potential models for a national organizational structure.

Investigators: The Pan-Canadian Task Force on Public Health Nutrition Practice

Local PHRED Staff: Marie Traynor

Funding: Public Health Agency of Canada

Start and Anticipated Completion Dates: 2007-2010.

Local Projects

Evaluation of Breastfeeding Classes Conducted by KFL&A Public Health

Description: An evaluation of parental satisfaction, knowledge retention and breastfeeding behaviour resulting from a prenatal Breastfeeding Class.

Investigators: Pam Carr, Kathleen O'Connor, Michael Schmidt, Susan Stewart

PHRED Staff: Kathleen O'Connor, Susan Stewart

Funding: Internal

Start and Anticipated Completion Dates: May, 2005 – June, 2008.

Computerized Digital Photoscreening for Amblyopiogenic Factors

Description: This study will determine the feasibility of using a school-based program to screen for amblyopiogenic factors in four-year old children.

Principal Investigator: Dr. Brian Arthur

Partner: Limestone District School Board

KFL&A Public Health Collaborators: Kathy MacRae, Kathleen O'Connor

PHRED Staff: Kathleen O'Connor

Funding Agency (Amount): Queen's University (\$30,000)

Start and Anticipated Completion Dates: August, 2005 – March, 2008.

"Every Drink is a Choice" Campaign: A Process Evaluation

Description: An evaluation of a poster campaign targeting local post-secondary students and evaluation of the everydrinkisachoice.com website.

Investigators: Susan Stewart, Cathy Edwards

PHRED Staff: Susan Stewart

Funding: Internal

Completion Date: October, 2005 – May, 2008

Follow-up Study of Mothers' Knowledge, Attitudes and Behaviours on Parent Education, Family Violence and Childhood Injury Issues

Description: A study to determine changes in knowledge, attitudes and behaviours of mothers over a three year period. A previous baseline study was conducted in 2002.

Investigators: Pam Carr, Susan Stewart

PHRED Staff: Susan Stewart

Funding: Internal

Start and Anticipated Completion Dates: January, 2006 – June, 2008.

Evaluation of the Alcohol, Smoking and Abuse Screening Tool for Women

Description: An evaluation of health care providers' reaction to and use of a new and comprehensive screening tool for women.

Investigators: Pam Carr, Mary Jane Gordon, Donna Clarke-McMullen, Tyler Moon, Susan Stewart

PHRED Staff: Susan Stewart

Funding: Internal

Start and Anticipated Completion Dates: January, 2006 – June, 2008.

Evaluation of "Step into Fitness"

Description: Outcome evaluation of a pedometer-based walking and nutrition program.

Investigators: Jane Bird, Anne MacPhail, Susan Stewart, Karen Thorpe, Karen Scott

PHRED Staff: Susan Stewart, Karen Scott

Funding: Internal

Start and Anticipated Completion Dates: April, 2006 – May, 2008.

KFL&A Public Health Staff Survey

Description: A survey of staff of KFL&A Public Health, for purposes of continuing quality improvement. Aims of the survey were to assess staff satisfaction and suggestions for improvement in the following areas: client service, communication, productivity, manuals, the strategic plan and workplace wellness.

Investigators: Kris Millan, Kathleen O'Connor, Jennifer Robertson

PHRED Staff: Kathleen O'Connor, Jennifer Robertson

Funding: Internal

Start and Anticipated Completion Date: March, 2007 – May, 2008.

Evaluation of Motiv8, a Multi-pronged Initiative to Achieve Healthy Weights in the Population of KFL&A

Description: *Motiv8* is an initiative of KFL&A Public Health targeting KFL&A adults in their homes, schools, daycare centres and in the community. *Motiv8* encourages them to eat well, get fit and live life through the promotion of eight healthy behaviours. This comprehensive evaluation will address both long-term and short-term objectives over a five year period.

Investigators: Suzette Taggart, Kathleen O'Connor, Marie Traynor, Karen Scott

PHRED Staff: Kathleen O'Connor, Marie Traynor, Karen Scott

Funding: Internal

Start and Anticipated Completion Dates: June, 2007 – December, 2012

An Infant Feeding Survey in KFL&A

Description: This study will follow mothers of infants from birth to twelve months to determine local feeding practices. The study is designed to determine breastfeeding initiation rates, the extent and duration of breastfeeding, and practices related to the introduction of solid foods.

Investigators: Connie Wowk, Susan Stewart, Kathleen O'Connor

PHRED Staff: Susan Stewart, Kathleen O'Connor

Funding: Internal

Start and Anticipated Completion Dates: October, 2007 – December, 2009

Evaluation of KGH/KFL&A Public Health Breastfeeding Pilot Project

Description: This pilot project introduces the services of a Public Health Nurse trained as a Lactation Consultant into the hospital setting. The study is designed to determine whether access to a Lactation Consultant in the hospital setting immediately after birth affects breastfeeding initiation and duration rates. This study will take place as a component of the *Infant Feeding Survey*.

Investigators: Connie Wowk, Susan Stewart, Kathleen O'Connor

PHRED Staff: Susan Stewart, Kathleen O'Connor

Funding: Internal

Start and Anticipated Completion Dates: October, 2007 – December, 2009

The Professional Development Needs of Preceptors

Description: This survey will assess preceptor needs for support in the preceptoring experience. Results will be used to develop presentations, tools and resources.

PHRED Staff: Marie Traynor

Funding: Internal

Start and Anticipated Completion Dates: Ongoing.

Health Status Reports

Urban and Rural Health Status in KFL&A

Description: A summary of socio-demographic characteristics, health behaviours, overall indicators of health and chronic conditions of residents in KFL&A, by urban and rural residence.

Author: Suzanne Sinclair

Funding: Internal

Start and Anticipated Completion Dates: November, 2007 – May, 2008

RRFSS in KFL&A: 2002 - 2007

Description: A trend analysis of health indicators in KFL&A collected through the Rapid Risk Factor Surveillance System (RRFSS) over the period 2002 to 2007.

Author: Suzanne Sinclair

Funding: Internal

Start and Anticipated Completion Dates: December, 2007 – July, 2008

Research Grants Received in 2007: Kathleen O'Connor

Title: “*Evaluation and Enhancement of the Rapid Risk Factor Surveillance System (RRFSS) Website*”

Agency: Public Health Agency of Canada

Competition: Chronic Disease Grant and Contribution Program

Role: Principal Investigator

Amount: \$115,974 (April, 2007 – March, 2008)

PHRED Research Scientist

Dr. Linda Lévesque is a PHRED Research Scientist at KFL&A Public Health, Assistant Professor in the Department of Community Health and Epidemiology at Queen's University and Adjunct Scientist at the Institute for Clinical Evaluative Sciences (ICES) in Toronto. Her research interests are based in experience as a practicing pharmacist, and focus on the safe and effective use of medications within a population and public health context, including post-marketing drug safety evaluations. She is also interested in the impact of research methodology on the validity of study results and has carried out a number of projects in this area.

In 2007 Dr. Lévesque was the recipient of four research awards, with four previous research grants still active. She teaches two courses at Queen's University, and supervises both graduate students and undergraduate theses. Her papers, publications and presentations are included in the *Dissemination* section of this report.

Research Grants – Received

Title: “*Establishment of the Pharmacoepidemiology and Economics Research Unit (PERU)*”

Agency: Ontario Research Fund for Research Infrastructure (ORF-RI)

Role: Principal Investigator

Amount: \$438,556 (July 01, 2007 – June 30, 2009)

Type: Provincial infrastructure grant

Title: “*Establishment of the Pharmacoepidemiology and Economics Research Unit (PERU)*”

Agency: Canadian Foundation for Innovation – Leaders Opportunity Fund (CIF-LOF)

Role: Principal Investigator

Amount: \$438,556 (July 01, 2007 – June 30, 2009)

Type: Federal infrastructure grant

Title: “*Antithrombotic treatment intensity and the risk of hemorrhagic complications in the elderly: A population-based study*”

Agency: Canadian Institutes of Health Research (CIHR), Population Health Committee

Role: Principal Investigator

Amount: \$213,222 (April 01, 2007 – August 31, 2009)

Type: Operating grant

Title: “*Nonsteroidal anti-inflammatory drugs and cardiovascular risk – An international patient level meta-analysis of observational studies*”

Agency: Canadian Institutes of Health Research (CIHR), Population Health Committee

Role: Co-investigator

Amount: \$183,616 (October 01, 2007 – September 30, 2009)

Type: Operating grant

Research Grants – Still Active

Title: “*Cox-2 Selective Inhibitors and Cardiovascular Outcomes in an Elderly Population*”
Agency: Canadian Institutes of Health Research (CIHR), Population Health Committee
Role: Co-investigator
Amount: \$127,304 (April 01, 2005 – March 31, 2007)
Type: Operating grant

Title: “*A Pharmacoepidemiology Study of a Potential Drug Interaction between Atorvastatin and Clopidogrel Following Percutaneous Coronary Intervention*”
Agency: Canadian Institutes of Health Research (CIHR), Population Health Committee
Role: Co-investigator
Amount: \$102,600 (October 01, 2005 – September 31, 2007)
Type: Operating grant

Title: “*The Effect of Diabetes Mellitus on the Development, Treatment, and Outcomes of Congestive Heart Failure*”
Agency: Canadian Institutes of Health Research (CIHR), Population Health Committee
Role: Co-investigator
Amount: \$99,925 (October 01, 2006 – September 31, 2008)

Title: “*Development, validation and applications of new methods for analyzing observational studies of medications*”
Agency: Canadian Institutes of Health Research (CIHR), Population Health Committee
Role: Co-investigator
Amount: \$572,735 (October 01, 2006 – August 30, 2011)
Type: Operating grant

External Committees

Member, Vaccine Safety Technical Advisory Committee, Public Health Agency of Canada

Member, Drug, Diabetes and Kidney Committee, Institute for Clinical Evaluative Sciences (ICES)

Member, Education Committee, International Society for Pharmacoepidemiology (ISPE)

Committees of Queen’s University

Chair, Undergraduate Medical Education Committee, Dept. of Community Health & Epidemiology

Member, Medicine in Society (MIS) Committee, Department of Medicine

Member, Phase1 Undergraduate Medical Education Committee, Department of Medicine

Member, Phase2A Undergraduate Medical Education Committee, Department of Medicine

Member, Phase 2B Undergraduate Medical Education Committee, Department of Medicine

External Research Funds

A summary of external research funding obtained by PHRED staff members and in place during the year 2007 is contained in the following table. These totaled almost \$2.4 million.

Summary of Research Funding in Place in 2007

PHRED Staff Member	Source of Grant	Field of Study	Term of Grant	Amount of Grant
L. Lévesque	CIHR	Cox-2 Selective Inhibitors	2005-2007	\$127,304
L. Lévesque	CIHR	Drug Interactions	2005-2007	\$102,600
L. Lévesque	CIHR	Medications: New Methods for Analysis	2006 - 2011	\$572,735
L. Lévesque	CIHR	Diabetes/Congestive Heart Disease	2006-2008	\$99,925
L. Lévesque	CIHR	Anti-thrombotic Treatment	2007-2009	\$213,222
L. Lévesque	CIHR	Nonsteroidal Anti-inflammatory drugs	2007-2009	\$183,616
L. Lévesque	ORF-RI	Pharmacoepidemiology and Economics Research Unit	2007-2009	\$438,556
L. Lévesque	CIF-LOF	Pharmacoepidemiology and Economics Research Unit	2007-2009	\$438,556
K. O'Connor	Wyeth	Childhood Immunization	2007	\$42,279
K. O'Connor	PHAC	Evaluation of the RRFSS Website	2007-2008	\$115,974
K. Scott	PHAC	Core Competencies in Public Health	2007	\$5,104
S. Stewart	MHP	Evaluation of Ontario's HEAL Strategy	2007-2008	\$42,734
TOTAL				\$2,382,605

Education

Southeastern Ontario Comprehensive Dietetic Internship Program

KFL&A Public Health has been the sponsoring agency for the Southeastern Ontario Dietetic Internship Program since 1993. This 43-week program, accredited by Dietitians of Canada, is designed to prepare competent entry-level dietitians. Our graduates are then able to function effectively as part of an interdisciplinary group to optimize the nutritional status of individuals and population groups.

The Internship offers a core program that provides experience in three required areas of dietetic practice: clinical nutrition, community nutrition and nutrition management. In addition, each intern completes a consolidation experience of eight weeks in either clinical or community nutrition practice. In June 2007 seven interns completed the program. This group included one intern placed with the Sudbury and District Health Unit as a pilot program. In September 2007 six interns were accepted for the 2007-2008 year.

In addition to program coordination and sponsorship, KFL&A Public Health provides public health rotation experiences for some of the interns to fulfil their community nutrition requirements. This flagship program could not exist without its many partners which, in 2007, included:

Bev Bacon RD
Bracken Health Sciences Library, Queen's University
Brockville General Hospital
Carveth Care Centre
Children's Hospital of Eastern Ontario
College of Dietitians of Ontario
Country Roads Community Health Centre
Dietitians of Canada – Practice-Based Evidence in Nutrition Project (PEN)
Espanola Family Health Team
Extendicare Kingston
Fairmont Home, Glenburnie
Four Villages Community Health Centre, Toronto
Frontier College
Gateway Community Health Centre
Haliburton, Kawartha, Pine Ridge District Health Unit
Hastings and Prince Edward Counties Health Unit
Hastings Manor, Belleville
Laurel Hoard RD
Hotel Dieu Hospital
KFL&A Public Health: Chronic Disease Prevention, Family Health and
Environmental Health Programs
Kingston General Hospital

Leeds, Grenville and Lanark District Health Unit
Lennox & Addington County General Hospital
Maple View Lodge, Athens
Merrickville District Community Health Centre
Noojmowin Teg Health Centre, Little Current
North Kingston Community Health Centre
Northumberland Hills Hospital
Ongwanada Resource Centre
Perth and Smiths Falls District Hospital
Providence Care Mental Health Services
Providence Care Providence Manor
Pioneer Manor, Sudbury
Quinte Healthcare Corporation: Belleville General, Prince Edward County Memorial
& Trenton Memorial Sites
Rideaucrest Home
Rideau Regional Centre
Rideau Valley Diabetes Services
Southlake Regional Health Centre
Sudbury & District Health Unit
Sudbury Regional Hospital
The Health Communication Unit, University of Toronto
Toronto Rehabilitation Institute
Trillium Ridge Retirement Centre
Heather Williams RD

Our heartfelt thanks are extended to these individuals and facilities.

Undergraduate and Graduate Education

An affiliation with Queen's University allows KFL&A Public Health to be a teaching site for undergraduate and graduate students in a wide variety of disciplines. KFL&A Public Health staff participated in the education of students in medicine, nursing and other health sciences, psychology, urban and regional planning, early childhood education and education.

Supervision of Graduate and Undergraduate Student Projects

Moaz Choudhury (Community Health and Epidemiology, MSc, in progress). *The benefits of in-school physical activity on life satisfaction, self-rated health, academic performance and out-of-school physical activity: a Canadian study.* Supervised by Kathleen O'Connor and Ana Johnston.

Tezeta Mitiku (Community Health and Epidemiology, MSc, in progress). *Identifying Myocardial Infarction Patients using Automated Data Extraction in Family Practice Electronic Records.* Supervised by Linda Lévesque.

Nisha Pinto (Life Sciences, 4th Year Thesis (BSc), in progress), *Evaluating the Power of Randomized Controlled Trials of Thiazolidinediones to Detect Cancer Risk.* Supervised by Linda Lévesque.

Jennifer Wu ((Life Sciences, 4th Year Thesis (BSc), in progress), *Representativity of Patients with Atrial Fibrillation in Antithrombotic Trials.* Supervised by Linda Lévesque.

Public Health Placements, and Graduate and Undergraduate Lectures

The following table presents student placements at KFL&A Public Health in 2007.

Student Placements in 2007

DISCIPLINE & LEVEL	DESCRIPTION	NUMBER of STUDENTS LENGTH of COURSE	
		Number of Students	Time
NURSING			
Queen's University Nursing 340	Maternal, Child & Children with Health Challenges	11	6 weeks; 12 hours/week
Queen's University Nursing 405	Practicum in Community Health Promotion: An introduction to the practice of public health promotion with population groups	14	11 weeks; 16 hrs/week
Queen's University Nursing 492	Consolidation of Nursing Care	6	10 weeks; 35 hours/week
Laurentian University, 3084	Nursing Practice IV	4	6 weeks; 12 hours/week
MEDICINE			
Community-Based Learning Projects 2 nd Year Medicine	An opportunity for medical students to demonstrate analytical or health promotion skills by carrying out a project of value to the agency. PHRED provides supervision and advice.	9	3 meetings; 1 hour each
Queen's University Family Medicine Residents	Sexual Health Clinic; clinical experience	30	8 hours
OTHER			
St. Lawrence College, Child and Youth Worker Program, 3 rd Year	Field Placement	1	12 weeks; 21 hours/week

Lectures and presentations to undergraduate and graduate students at Queen's University and St. Lawrence College are presented in the following table.

Lectures and Presentations in 2007

DISCIPLINE & LEVEL	DESCRIPTION	NUMBER of STUDENTS LENGTH of LECTURE	
		Number of Students	Time (hours)
QUEEN'S UNIVERSITY			
Medicine, Phase 1	Health Promotion	100	2
Medicine, Phase 1	Public Health Practice	100	2
Medicine, Phase 2	Communicable Diseases	100	2
Medicine, Phase 2	Immunization	100	2
Medicine: Public Health Interest Group	Public Health	60	1.5
Nursing, 3 rd Year	Preconceptual Health	100	1
Nursing, 4 th Year	Group Facilitation Skills	100	3
Nursing, 4 th Year	Community Coalitions	100	1
Nursing, 4 th Year	Presentation Skills	100	3
Nursing, 4 th Year	Media and Public Health	100	1
Nursing, 4 th Year	Program Logic Models and Program Evaluation	100	2
Nursing, 4 th Year	Theories of Behaviour Change	100	1
Nursing, 4 th Year	Community-Based Programming Hearts@Work	100	1
Kinesiology & Health Sciences, 3 rd Year	Behavioural Change and Smoking Cessation	100	2
Psychology, 4 th Year	Healthy Babies, Healthy Children Early Intervention	20	1
School of Urban and Regional Planning, Graduate	Security and Community Mapping	7	1
Kinesiology & Health Sciences, Graduate	The Reality of Putting Research into Practice: Healthy Weights, Healthy Lives	35	1
Education, Graduate	Supplementary DPA Activities	38	2

DISCIPLINE & LEVEL	DESCRIPTION	NUMBER of STUDENTS LENGTH of LECTURE	
Community Health and Epidemiology, Graduate	Applications of Public Health in Epidemiology	25	1.5
Medicine, Continuing Professional Education	Rounds: Infectious Diseases	30	1
ST. LAWRENCE COLLEGE			
Nursing, 3 rd Year	Public Health Inspection	45	1
Nursing, 4 th Year	Emergency Preparedness and Pandemic Planning	80	1
Nursing, 4 th Year	Public Health's Role with Smoking Cessation Programs	80	1
Early Childhood Education, 1 st Year	Oral Health	55	2
Early Childhood Education, 2 nd Year	Speech and Language	55	3
Social Services Studies, 1 st Year	Fetal Alcohol Spectrum Disorder	55	1.5
Social Services Studies, 1 st Year	Communicable Diseases and Routine Practices	25	1.5
Fitness and Health Promotion, 2 nd Year	When Generations Collide	26	1
KFL&A PUBLIC HEALTH			
Dietetic Internship Program	Breastfeeding Basics	6	1
Dietetic Internship Program	Media Workshop	6	1
Dietetic Internship Program	Privacy Legislation	6	1
Dietetic Internship Program	College of Dietitians Practice Guidelines	6	1
Dietetic Internship Program	Orientation to Library Services and the Virtual Library	6	1
Dietetic Internship Program	RD Toolbox Exercises	6	1
Dietetic Internship Program	Effective Communication: Presenting with Pizzazz	6	1
Dietetic Internship Program	Financial and Personnel Planning for the Major Project	6	1

Courses Taught in 2007/2008

DISCIPLINE & LEVEL	DESCRIPTION	NUMBER of STUDENTS LENGTH of COURSE	
		Number of Students	Length (weeks)
QUEEN'S UNIVERSITY			
Medicine, Phase 1	Introduction to Clinical Epidemiology	100	13
Medicine, Phase 2	Critical Appraisal of the Medical Literature	100	13

Dissemination and Development

Included in the “Development” of Public Health Research, Education and Development are all of the activities through which existing and new knowledge are communicated to the public health professionals who can best use the findings. This includes library services as well as reports, presentations and publications.

The library at KFL&A Public Health makes published and internet resources and the services of a Library Technician available to staff in our public health agency.

Library Services

Details of the use made of library services and resources for 2007 are presented below.

Library Statistics for 2007

	Circulation	Journal Articles (PH)	Literature Search	Reference	Internet	Inter library Loans		Items Catalogued
						Borrow	Loan	
Jan	52	122	1	48	19	40	4	17
Feb	55	57	1	51	23	26	1	-
Mar	31	63	4	66	26	30	1	7
Apr	65	71	3	63	24	36	-	8
May	23	92	2	55	21	34	1	6
June	34	102	2	48	17	31	4	3
July	50	197	2	49	22	70	10	20
Aug	27	50	3	21	19	11	1	-
Sept	33	37	2	78	44	24	5	-
Oct	26	125	3	33	33	8	2	9
Nov	47	22	-	50	31	11	2	1
Dec	33	11	3	20	23	43	-	-
TOTALS	476	949	26	582	302	364	31	71

Other activities and projects that continued or were initiated in 2007 included:

- ❖ Library orientation sessions throughout the year for new staff and volunteers, nursing students and dietetic interns.
- ❖ Regular biennial meetings of the Library Committee.

- ❖ Membership in the Ontario Public Health Libraries Association (OPHLA). The Library Technician attended the Association's annual general meeting and workshop in June at Toronto Public Health.
- ❖ Quarterly submission to The Patter (staff newsletter) highlighting Library news, resources and services.
- ❖ Continued partnership with Bracken Health Sciences Library on training opportunities and access to resources and services for professional staff at KFL&A Public Health. A workshop for staff on effective use of Ovid for searching the medical and health sciences databases was held at Bracken Library, conducted by the Outreach Librarian.
- ❖ An Open House for staff and volunteers on December 6. The theme for the day was *Yourspace.com*. The ideas of the event were to have staff recognize the Library as their space and their resource, and gain a complete understanding of the services, resources and the facility available to them.
- ❖ In-service training sessions for staff and interns in the use of EBSCO (the Virtual Library) and Ovid.

Knowledge Translation

Knowledge translation strategies include publications in peer-reviewed journals, presentations at provincial and national conferences and internal reports. The following list includes publications, presentations and reports completed in 2007 by KFL&A Public Health Staff.

Peer-Reviewed Publications

Brophy, J.M., **Lévesque, L.E.**, & Zhang, B. (2007). The coronary risk of cyclo-oxygenase-2 inhibitors in patients with a previous myocardial infarction. *Heart*, 93(2), 189-194. Epub 2006 Jul 18.

Delva, D., Tomalty, L., **MacRae, K.**, Payne, P., Plain, E., & Rowe, W. Social accountability through interprofessionalism: from concept to practice. A new model for collaborative continuing professional development. Manuscript submitted for publication.

Duval, B., Gilca, V., McNeil, S., Dobson, S., Money, D., **Gemmil, I.M.**, Sauvageau, C., Lavoie, F., & Ouakki, M. (2007). Vaccination against human papillomavirus: a baseline survey of Canadian clinicians' knowledge, attitudes and beliefs. *Vaccine* 25(45), 7841-7847. Epub 2007 Sep 14.

Fox, A., Chenhall, C., **Traynor, M.**, Scythes, C., & Bellman, J., (in press). Public Health Nutrition Practice in Canada: a situational assessment. *Public Health Nutrition*.

Hébert, C., Delaney, J.A., Hemmelgarn, B., **Lévesque, L.E.**, & Suissa, S. (2007). Benzodiazepines and elderly drivers: a comparison of pharmacoepidemiological study designs. *Pharmacoepidemiology and Drug Safety*, 16, 845-849. Epub 2007 Jun 11.

Lipscombe, L., Gomes, T., **Lévesque, L.E.**, Hux, J.E., Juurlink, D.N., & Alter, D.A. (2007). Thiazolidinediones and cardiovascular outcomes in older patients with diabetes. *JAMA*, 298, 2634-2643.

Articles in Professional Journals Without Review Committee

Stewart, S., & McBride, C. (2007). A pilot study to evaluate health professionals' response to the CAGE+2+Y health professional screening tool for alcohol use. *Journal of the Nursing Research Council of Southeastern Ontario Health Sciences Centre*, December, 13-20.

Abstracts – Published

Lévesque, L.E., Kezouh, A., & Suissa, S. (2007). Immortal time bias in an observational study of the progression of type 2 diabetes. 23rd International Conference on Pharmacoepidemiology (ICPE) and Therapeutic Risk Management, Québec, August 2007. *Pharmacoepidemiology and Drug Safety*, 16(Suppl.1), S5.

Poster Presentations

Donovan, T.L. *Implementation and evaluation of an innovative, integrated, health care worker syndromic surveillance system for infectious disease.* Poster presented at the Ministry of Health and Long-Term Care, Health Care Innovations Expo, Toronto, May 23 – 24, 2007.

Paterson, L. *Mathematics and daily physical activity.* Poster presented at the 2007 Annual Conference of the Elementary Teachers' Federation: Math 4 Every 1. Kingston, April, 2007.

Oral Presentations

Donovan, T.L. *An innovative, integrated health care worker syndromic surveillance system for infectious disease.* Canadian Public Health Association 2007 Annual Conference, Ottawa, September 18, 2007.

Donovan, T.L. *Hospital employee absenteeism: Managing administrative data for health surveillance.* Nursing Care Research Day, Kingston, March 28, 2007.

Lévesque, L.E. *NSAIDS, COX-II drugs and the heart.* Cardiology Conference, Faculty of Health Sciences and Continuing Professional Development, Queen's University, Kingston, October 17, 2007.

Lévesque, L.E., Kezouh, A., & Suissa, S. *Immortal time bias in an observational study of the progression of type 2 diabetes.* 23rd International Conference on Pharmacoepidemiology (ICPE) and Therapeutic Risk Management, Québec, August 20, 2007.

Lévesque, L.E. *Interpreting the medical literature: Understanding what's clinically relevant.* 10th Annual Valley Spring Refresher, Annapolis Valley Health & Dalhousie University, Wolfville, May 11, 2007.

Lévesque, L.E. *NSAIDs and COX-2 inhibitors: Getting to the heart of the story.* Stepping Stones to Seamless Care, KGH Pharmacy Services and Queen's University, Faculty of Health Sciences, Continuing Professional Development, Kingston, April 26, 2007.

Lévesque, L.E. *The full disclosure approach to evaluating study results: A step towards better decision making.* Clinical Education Day, Quinte Health Care, Pharmacy and Therapeutics Council, Picton, April 25, 2007.

Lévesque, L.E. *Applying evidence-based medicine in your practice: Taking a critical look at study results.* 38th Annual Professional Practice Conference (PPC), Canadian Society of Hospital Pharmacists, Toronto, January 30-31, 2007.

Lévesque, L.E., Kezouh, A., & Suissa, S. *Immortal time bias in observational studies of interventions for type 2 diabetes.* Division of Clinical Epidemiology Research Seminar, Royal Victoria Hospital, McGill University Health Centre (MUHC), Montréal, January 11, 2007.

McWilliam, D.N. *Smoke free schools: Assisting schools in policy implementation,* Webinar, Canadian Association for School Health, Kingston, November 29, 2007.

Partyka, B. *Exploring infant nutrition and moving toward solutions.* Saskatchewan Prevention Institute: Prevention Matters Conference, Saskatoon, October 22-24, 2007.

Short, M.J., & Paterson, L. *Eat well and be active—Getting the message out.* OPHEA Kid's Health Conference, Alliston, October 11, 2007.

Stewart, S. *Program evaluation: An effective tool for program development.* Best Start Resource Centre 2007 Annual Conference, Toronto, February 20, 2007.

Reports

Lehtimaki, S., Jones, P., Hughes, M., Sheridan, E., Cassell, E., Deschamp-Baird, J., **Sinclair, S.,** & Remington, D. (2007). *Community Profiles: Indicators for Children and Youth in the South East Region.* Kingston, ON: Remington Consulting.

PHRED Program of Kingston, Frontenac and Lennox & Addington Public Health. (2007). *RRFSS in KFL&A January – December 2006.* Kingston, ON: Author.

PHRED Program of Kingston, Frontenac and Lennox & Addington Public Health. (2007). *A KFL&A community health status report: Focus on overweight, obesity and physical activity.* Kingston, ON: Author.

PHRED Program of Kingston, Frontenac and Lennox & Addington Public Health. (2007). *Family Enrichment Project: Lennox & Addington Family and Children's Services and Kingston, Frontenac and Lennox & Addington Public Health Healthy Babies, Healthy Children.* Kingston, ON: Author.

PHRED Program of Kingston, Frontenac and Lennox & Addington Public Health. (2007). *Parents' knowledge of childhood immunization and barriers to the immunization of children: Initial report.* Kingston, ON: Author.

PHRED Program of Kingston, Frontenac and Lennox & Addington Public Health.
(2007). *Public health and school boards working together: Lessons learned from the Limestone model*. Kingston, ON: Author.

Staff Development

Staff development is an important component of Quality Assurance, and an important role for PHRED. PHRED coordinates a series of in-house seminars, “RED Hot Topics in Public Health”, to address current topics in public health and to present staff with the findings of in-house research projects.

R.E.D. Hot Topics, 2007

Presenter	TOPIC	Date
Ms. Andrea Naylor	Takin' it to the edge: Why YOUTH are the KEY to prevention	January 29, 2007
Ms. Cathy Howard Ms. Tina Muehethaler	When generations collide	February 13, 2007
Ms. Nastaran Toofani	Cook it up healthy!	March 19, 2007
Ms. Nancy Melville	Invisible reality	April 16, 2007
Ms. Judy Redpath	“Heather Crowe’s legacy: An ordinary Canadian’s extraordinary gift”	May 24, 2007
Ms. Emma Martelluzzi	An in-Service to increase staff awareness and knowledge of the KFL&A Public Health Breastfeeding Policy	June 20, 2007
Ms. Suzanne Sinclair	Overweight, obesity and physical activity in KFL&A	September 17, 2007
Ms. Marg McReynolds Ms. Susan Stewart	Skills Enhancement for Public Health: Building a solid foundation for public health practice	October 25, 2007
Dr. Gemmill	HPV vaccine	November 15, 2007
Mr. Paul Beach	“The use of geographic information system (GIS) in Health and Human Services in Sault Ste. Marie and Algoma”	December 10, 2007

PHRED Staff

2007

Gail Brierley	Support
Tara Dawe, MLT	Research Assistant
Melanie Dittburner	Library
Linda Lévesque, BScPhm, MSc, PhD	Research Scientist
Julia McBride	Research Assistant
Kathleen O'Connor, PhD	Director
Jennifer Robertson, PhD	Research Associate
Karen Scott, MSc	Research Associate
Suzanne Sinclair, MSc	Epidemiologist
Susan Stewart, MA	Research Associate
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