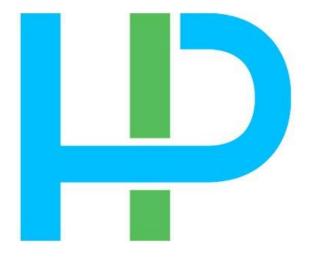


Developing a Research Trainee Competency Framework in Population Health: A Student-Led Initiative

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The Healthy Populations Institute (HPI)

- Senate-approved research institute at Dalhousie University
- Formally the Atlantic Health Promotion Research Centre
- 4 research clusters: Youth & Healthy Aging, Indigenous Health & Wellbeing, Marginalized Populations, and Implementation Science

Student Research Scholars

- New student membership developed after renewal process
- Membership criteria, roles & responsibilities, and opportunities/benefits...





Criteria for Student Research Scholar Membership

One of the following criteria must be met:

•Must be a graduate student in the Faculties of Health Professions, Medicine, or Dentistry,

•And/or any graduate student from other faculties whose supervisor is either a HPI Senior or Associate research scholar

Roles and Responsibilities

Attend (when possible) HPI-hosted events (e.g., public events).
Manage and/or assist with the organization of one HPI-hosted event (e.g., guest speaker event).
Present research (when possible) at an internal or open meeting/event, including presentation prior to a thesis defence.
Provide permission to display appropriate research and personal information on website.
Agree to be listed on the Institute's distribution list and receive email notices.

Opportunities

•List membership in CV/resume and as part of signature line on correspondence during membership period. •Participate in a research grants as appropriate.

•Participate in Senior Research Scholars' and Associate Research Scholars' research workshops, as appropriate. •Join one of four HPI Research Clusters

•Access research expertise of Senior Research Scholars and Associate Research Scholars, as appropriate.



HPI Competency Framework Research Project





Need for a Framework

- Identify fundamental knowledge, skills, and attitudes necessary for population health research trainees
- Evidence to guide additional training opportunities and target professional development programming for HPI student research scholars
- No single existing framework met the needs of the interdisciplinary student members





Research Questions

1) What skills, research, and knowledge-based competencies do HPI Student Research Scholars want?

2) Does HPI Student Research Scholar membership offer opportunities for the development of these competencies?

3) What competencies already exist in population health field that are relevant for HPI trainees?

4) What additional resources are available around Dalhousie University for student that promote these competencies?





Multi-Method Approach

Qualitative data were collected and analyzed in three phases:

- Phase 1: Environmental Scan
 - Framework Collection
 - Resource Mapping
- Phase 2: Consultations
 - Trainee (student research scholars)
 - Expert (senior & associate research scholars)
- Phase 3: Framework Development





Phase 1: Environmental Scan

Framework Collection

 Existing health promotion and population health-related competency, skill, and accreditation frameworks were systematically collected through a search of peer-reviewed and grey literature

Search terms included:

 best practic*, competenc*, skill*, capacity*, outcome*, proficienc*, aptitude*, evaluat*, health, promot*, public, community, populatio n*, develop*, population health, and health promotion





Phase 1: Environmental Scan

Resource Mapping

Website and resource scanning:

- Dalhousie departments, faculties, and libraries
- Informal communication with organization volunteers and employees at local health and research-based groups
- Organizations including Maritime SPOR Support Unit, Dalhousie Centre for Learning and Teaching, Nova Scotia Health Authority, etc.





Phase 2: Consultations

Trainee consultations

• The trainee consultation focus group followed a *needs assessment* approach to identify opportunities for HPI program development and impact optimization

Expert consultations

- This focus group identified ways HPI can develop the student research scholar training program and competency framework, based on the findings from the environmental scan
- They identified gaps in the draft framework and resource map and further identified opportunities to meet the needs of the trainees





Phase 3: Framework Development

 Analysis of the environmental scan, and the trainee and expert consultations yielded a draft framework comprised of 4 guiding principles and 6 competencies

 As a final step in drafting the framework, original grant members also reviewed and provided feedback





Results

Guiding Principles:

Capacity Building
 Cultural Competence
 Critical Reflection
 Community
 empowerment, building,

and Development

Four Guiding Principles:

 These principles should be incorporated throughout all aspects of the six competencies and daily practice of student research scholars

WHO, 2017; PHAC 2008; Allegrante et al., 2009; Ladhani, Sherpbier, & Stevens, 2012; Health Promotion Canada, 2015; Tretheway et al., 2015; Czabanowska et al., 2014





Results

6. Support & 2. Research, Enable Policy, & **Guiding Principles:** Change Practice **Capacity Building** Cultural Competence **Critical Reflection** Community empowerment, building, and Development 3. 5. Leadership Programming & Evaluation 4. Communication

1. Knowledge

Six Core Competencies

HPI student research scholars need
knowledge (1) and skills on research,
policy, and practice (2), as well as
programming and evaluation (3), before
we can effectively communicate
knowledge and evidence (4). These
knowledge and communication skills can
be applied via leadership (5) that results
in supporting and enabling change (6).





Results

Competency Resources:

- 52 health and/or research-based groups and organizations were identified through resource mapping
- The list serves as an informative database for HPI program planning and opportunities to enhance trainee success
- This demonstrates the relevancy of these competencies in relation to local experiential learning opportunities





Discussion

This collaborative research and development process:

- Provided student research scholars with group research experience that resulted in the creation of a novel competency framework
- May be adapted by other students in population heath programs as a guide to create their own frameworks to meet their education and training needs





Future Research

- Sharing our findings and learning from others
 - Positive feedback from other health trainees in Atlantic Canada

- Putting the framework into action!
 - Grant application
 - Workshop series and website in development





Future Research

 Establishing an evaluation plan with measurable indicators – how will we know when we have acquired these skills/knowledge?

 Collaborating with local/national/international organizations and institutes to ensure HPI student research scholars have opportunities to develop these competencies





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