



National Collaborating Centre  
for Methods and Tools

Centre de collaboration nationale  
des méthodes et outils

# Overcoming Barriers to Evidence-Informed Decision Making: Online Learning for Public Health Practitioners

Maureen Dobbins, RN, PhD  
Pamela Forsyth, MHSc, RD  
Donna Ciliska, RN, PhD  
Ramona Kyabaggu, MSc

Jeannie Mackintosh, Cert (PR)  
Kate Tulloch, MPH  
**Jennifer Yost, RN, PhD**

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National Collaborating Centre  
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**NCC  
Aboriginal  
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Prince George, BC

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**NCC  
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Diseases**

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**NCC  
Determinants  
of Health**

Antigonish, NS

**NCC Healthy  
Public Policy**

Montreal and  
Quebec City, QC

# NCCMT Products and Services

## Registry of Methods and Tools

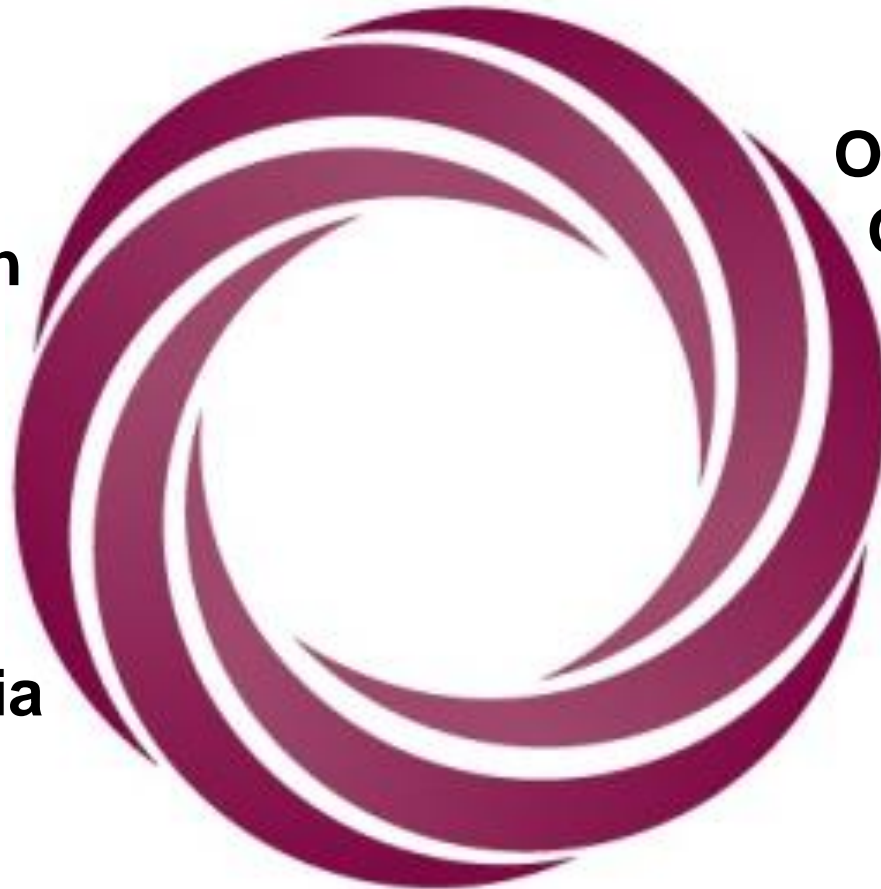
**Networking  
and Outreach**

**Online Learning  
Opportunities**

**Multimedia**

**Workshops**

**Public Health+**



# Online Learning with NCCMT

*What resources are available:*

- Learning Centre
  - Online modules
    - Suite of modules to support Evidence-Informed Public Health
  - Search Pyramids
    - Free online tools to support and structure your search for research evidence
- Videos “Understanding Research Evidence”
- Webinar companions
  - Short summaries of key points (English, French)



# Online Learning Modules:

- Intro to Evidence-Informed Decision Making
- Quantitative Research Designs 101
- Searching for Research Evidence in Public Health
- Critical Appraisal of Intervention Studies
- Critical Appraisal of Systematic Reviews
- Critical Appraisal of Qualitative Studies (*new!*)
- Assessing Applicability and Transferability of Evidence (*new!*)



# Evaluating the modules

## Pre- and post-assessment questionnaires

- Demographics
- User knowledge
- Self-efficacy
- User experience



# How many people use the modules?

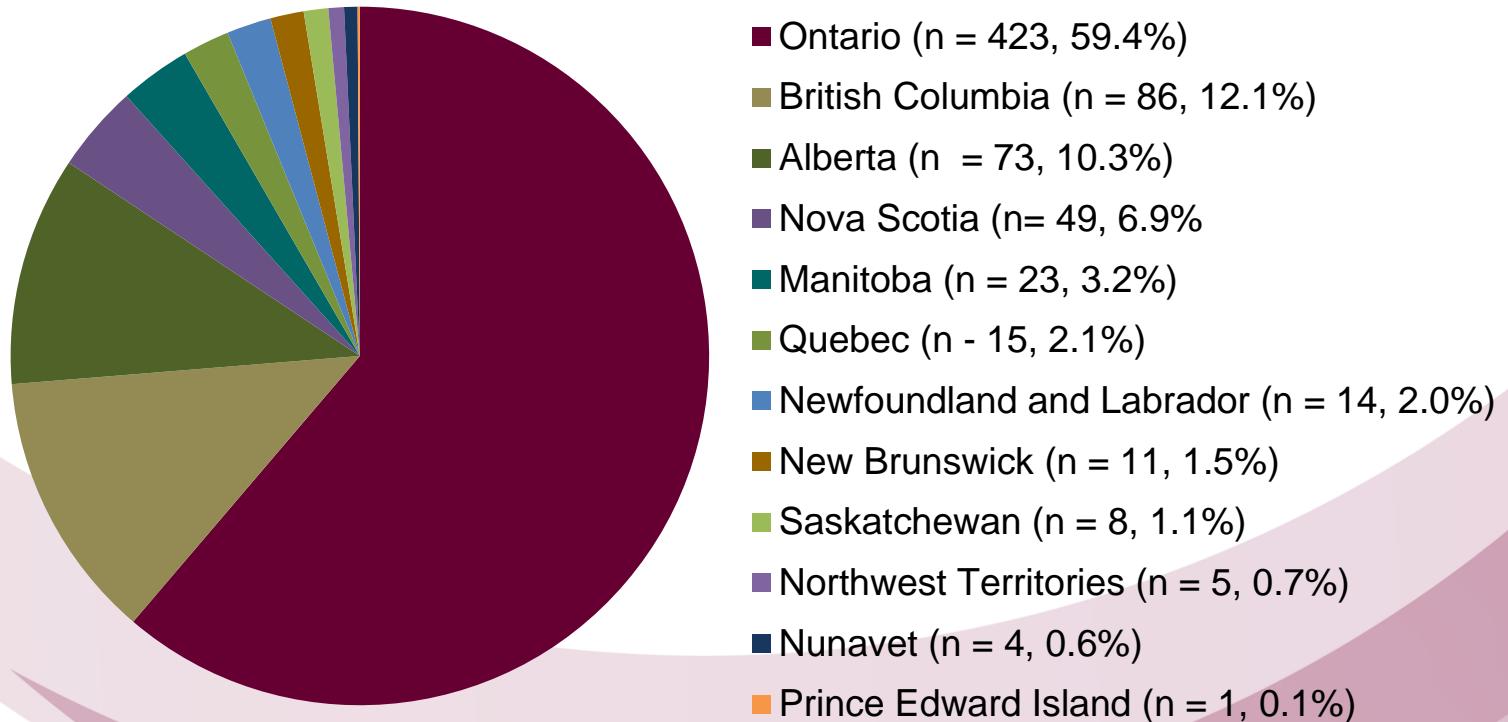
Between 1 April 2013 and 31 March 2014:

- 2350 modules were started by 1308 unique users
- 21.1% of users started more than one module



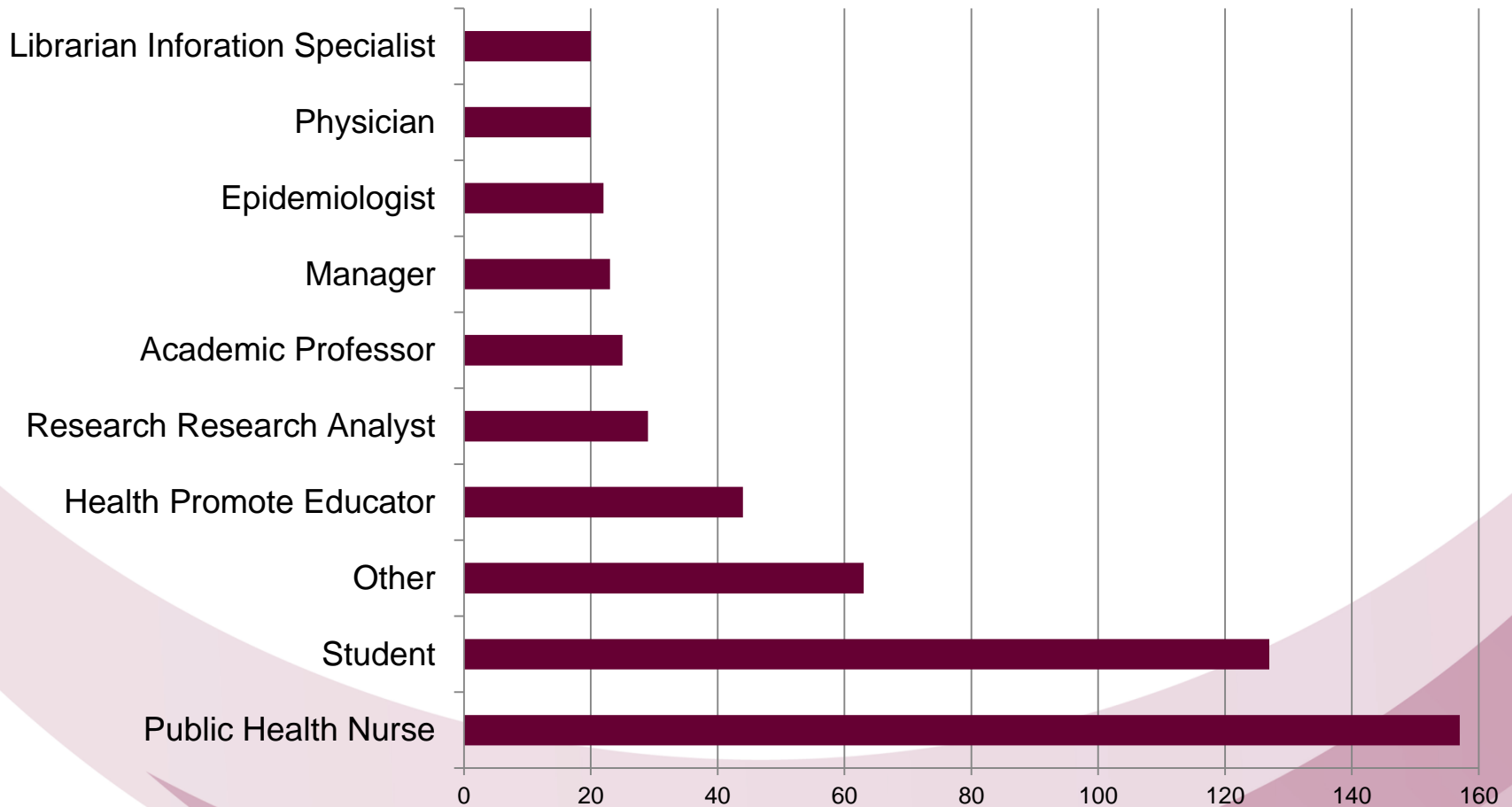
# Where do module users work?

- Users worked in 52 countries across the world
- 59.4% worked in Canada:

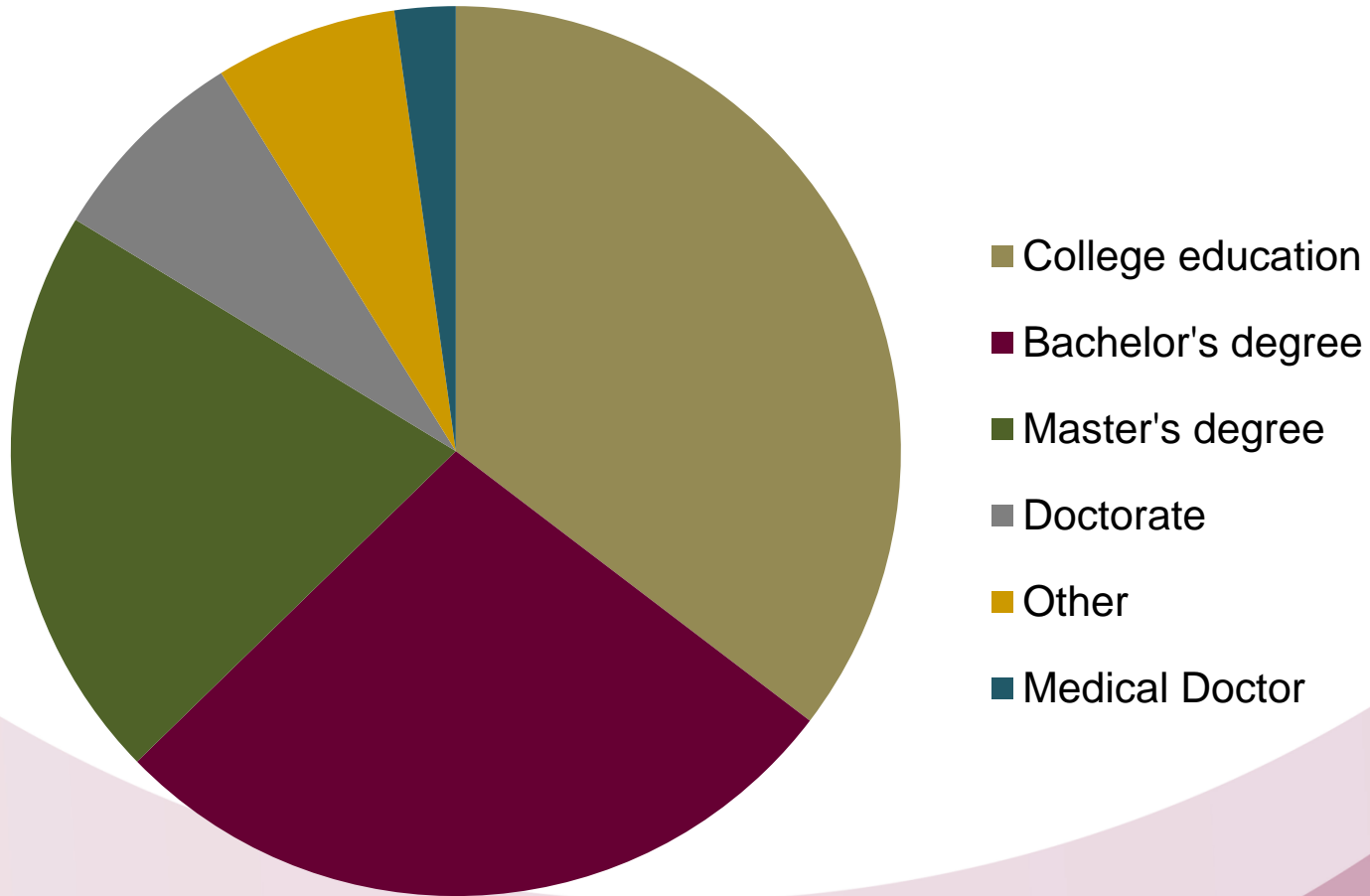




# Public health roles of module users

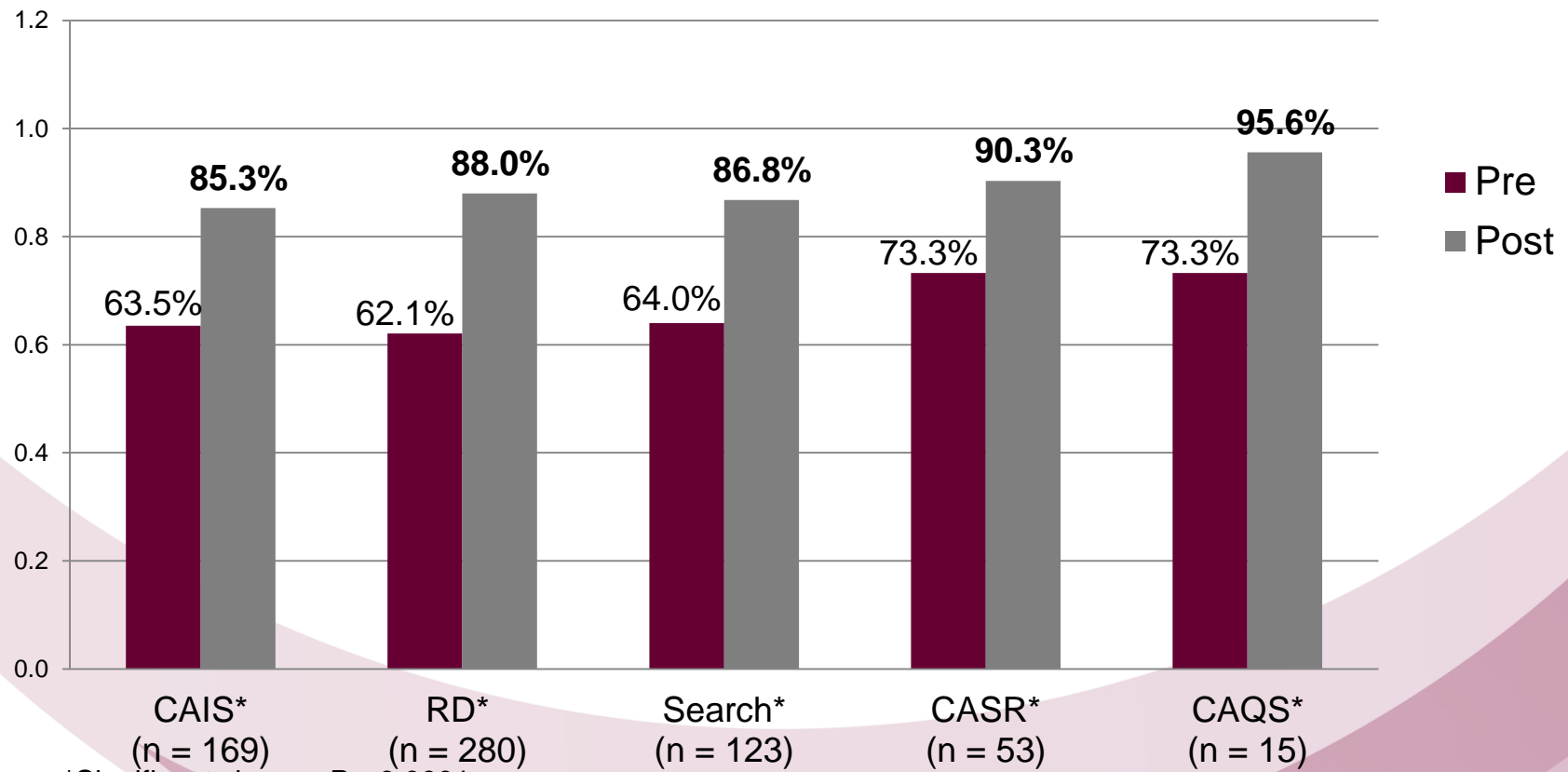


# Level of education



# Users learning outcomes: Knowledge

## Changes in Knowledge from Pre- to Post- Module Completion

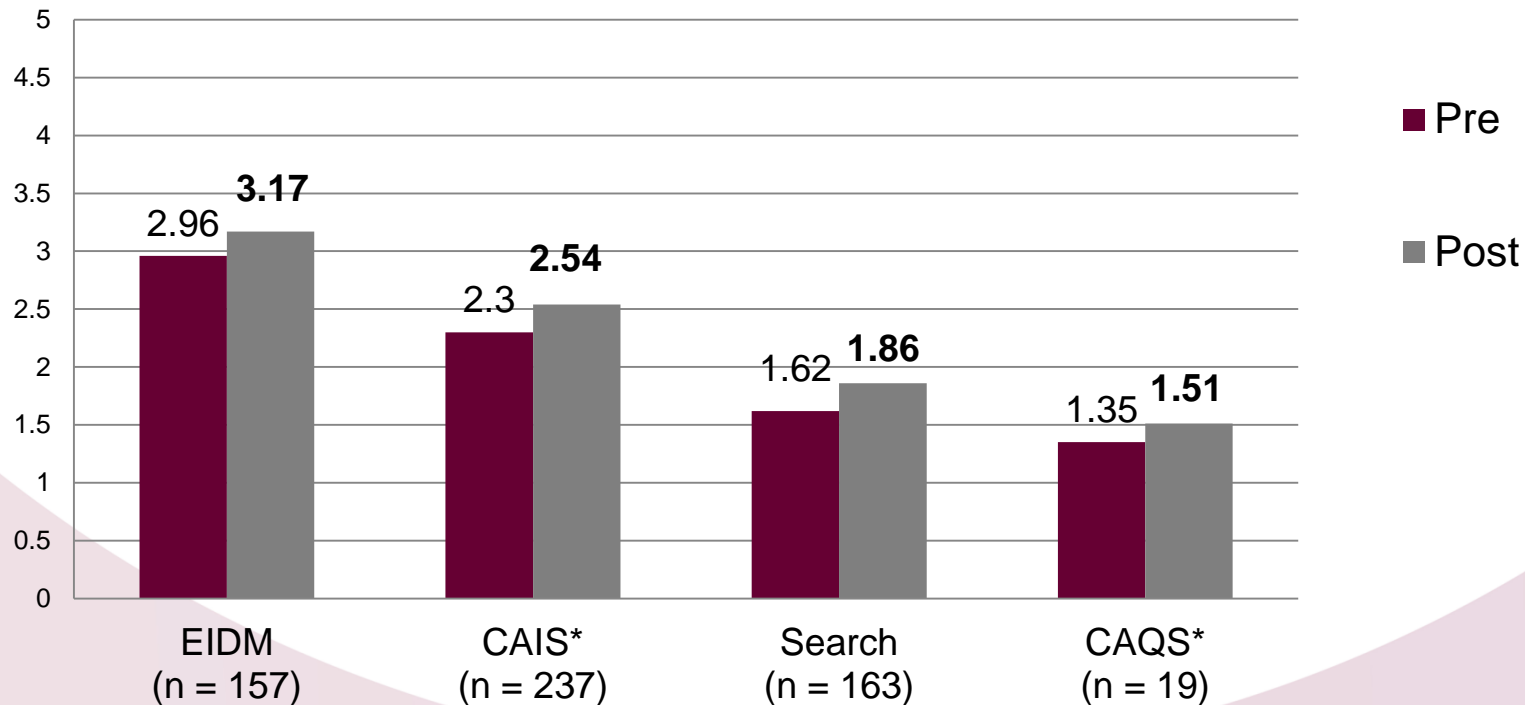


\*Significant change  $P < 0.0001$



# Users learning outcomes: Self-efficacy

**Changes in Self-Efficacy  
from Pre- to Post-module (completion)**

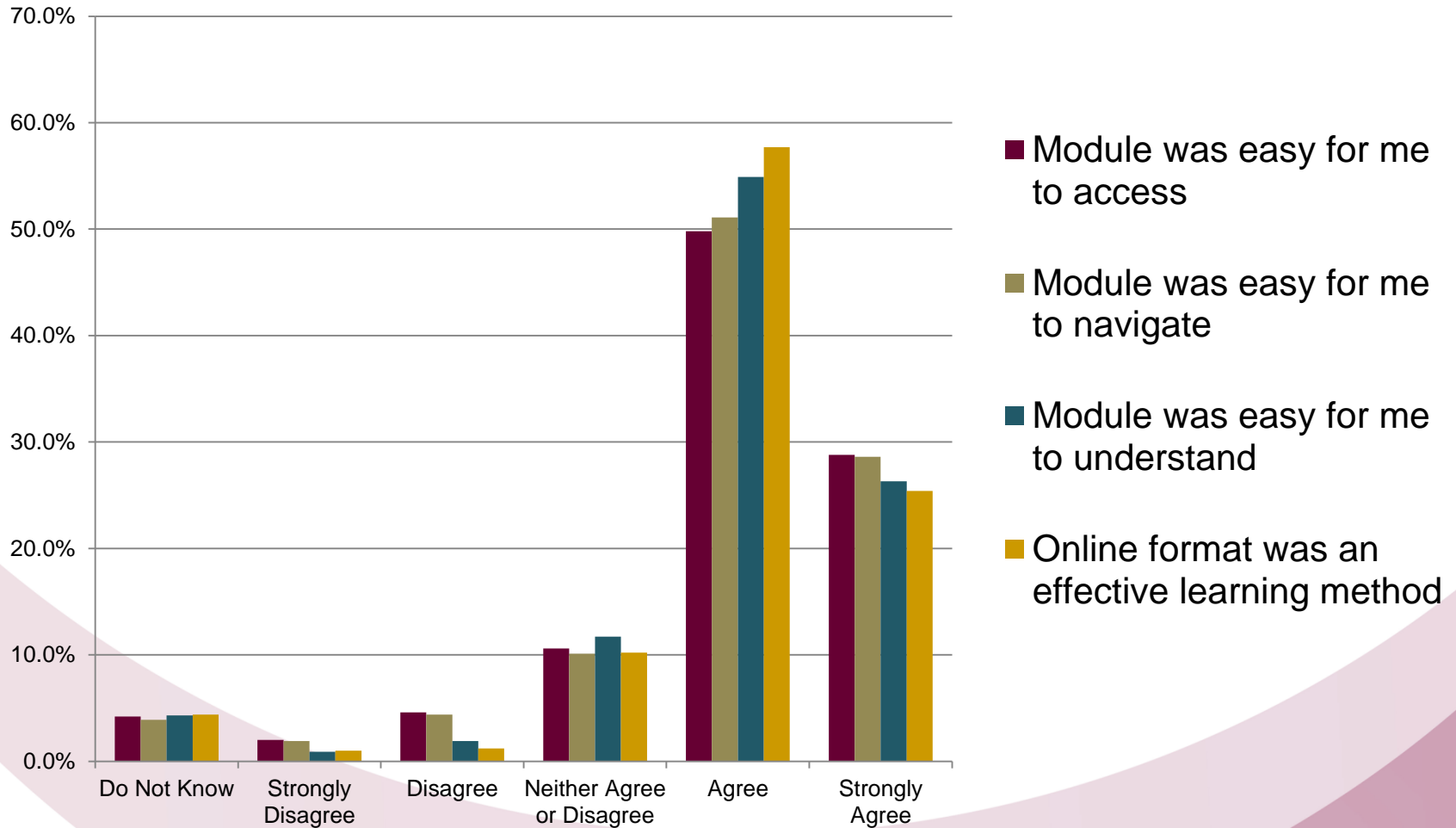


\*Significant change  $P < 0.05$

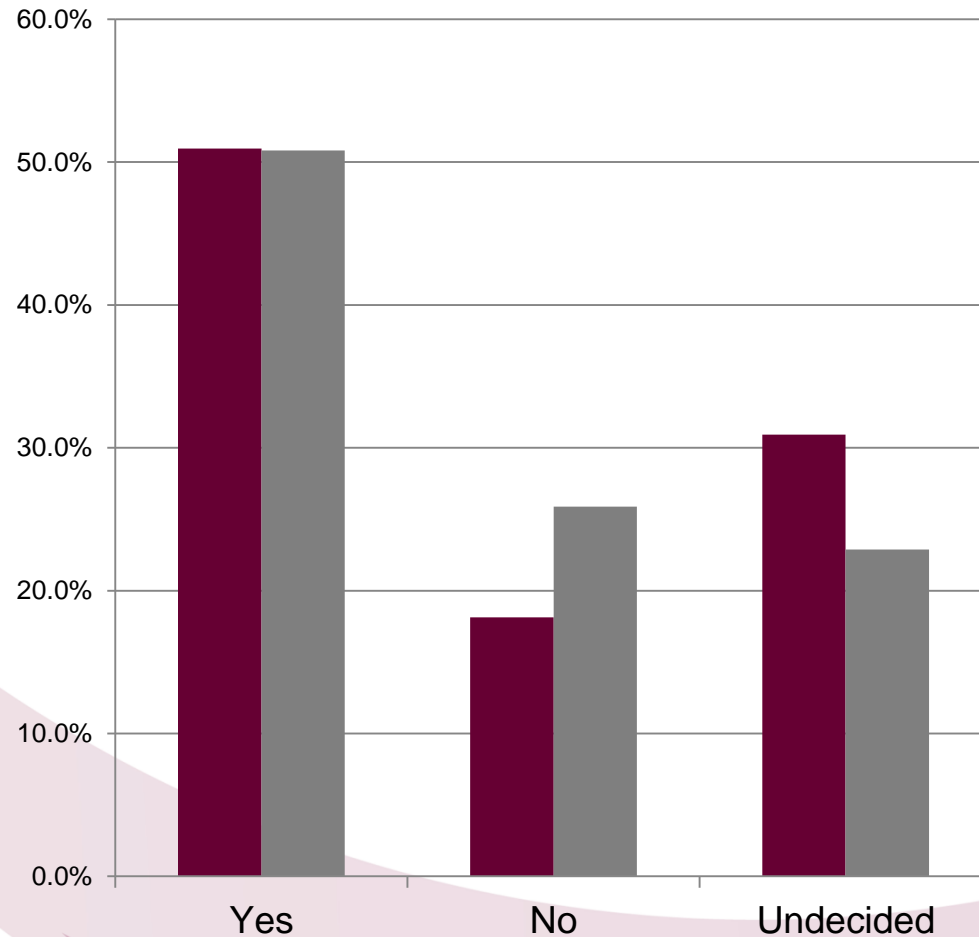
Likert Scale: 0 = don't know/no answer; 1 = strongly disagree; 2 = disagree; 3 = neither agree/disagree; 4 = agree; 5 = strongly agree



# Supporting Learner Needs



# Learner Intentions After Module Completion



- I intend to complete other modules offered by NCCMT
- I will recommend this series of NCCMT online modules to a colleague



# Summary of findings

- Effective strategy to build KT capacity
- Increase learner knowledge
- Increase learner self-efficacy



# Key features of NCCMT learning modules

- ✓ free
- ✓ accessible
- ✓ self paced
- ✓ support professional development
- ✓ colour-coded to match EIPH wheel *(new!)*



Introduction to Evidence-Informed Decision Making in Public Health

View a [demo](#) of this module. Introduction to Evidence-Informed Decision Making is a module that includes a pre-test, three sections, and one final test. Its purpose is to demonstrate the components of evidence-informed decision making in public health and practice finding and applying the best available research evidence to a real world scenario.

Personal Notes: 1 Group Notes: 1

CLICK TO BEGIN

Searching for Research Evidence in Public Health

View a [demo](#) of this module. Searching for Research Evidence in Public Health is designed for public health practitioners, health librarians, program managers/directors and staff responsible for finding good quality research evidence to support decisions about public health programs or services. This module gives you the knowledge you need to quickly and efficiently search for relevant pre-processed and pre-appraised public health research evidence to guide decision making.

Personal Notes: 0 Group Notes: 1

CLICK TO BEGIN

Critical Appraisal of Systematic Reviews

View a [demo](#) of this module. Critical Appraisal of Systematic Reviews, which builds on the concepts discussed in the Introduction to Evidence Informed Decision Making teaches you to demonstrate and apply the process of critically appraising a systematic review of a treatment or prevention intervention relevant to public health.

Personal Notes: 0 Group Notes: 0

CLICK TO BEGIN



# Group registration

- Register with colleagues
- Invite class or study group
- Share notes, questions
- Earn your *own* certificate



# How to access online modules

Register or log in to NCCMT's Learning Centre:

[www.nccmt.ca/learningcentre](http://www.nccmt.ca/learningcentre)

It's **free!**

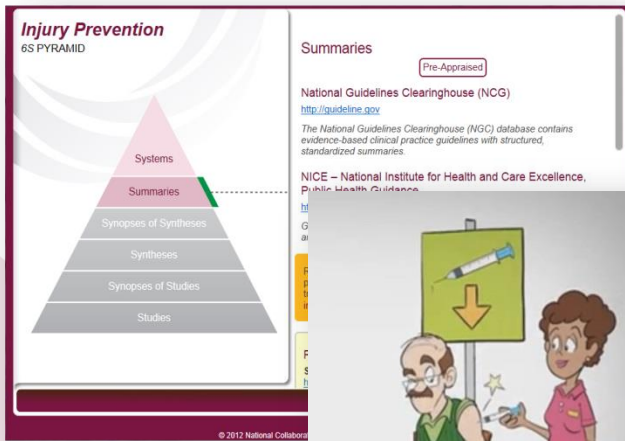


# Other online learning opportunities available from NCCMT

## Search Pyramids

## Understanding Research Evidence videos

## Webinars, webinar companions



# For more information about the National Collaborating Centre for Methods and Tools:

NCCMT website [www.nccmt.ca](http://www.nccmt.ca)

Contact: [nccmt@mcmaster.ca](mailto:nccmt@mcmaster.ca)



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