



National Collaborating Centre
for Methods and Tools

Centre de collaboration nationale
des méthodes et outils

Building capacity for evidence-informed decision making with personalized skills assessments

Maureen Dobbins RN, PhD

2018 Global Evidence and Implementation Summit

22-24 October, 2018

The NCCMT

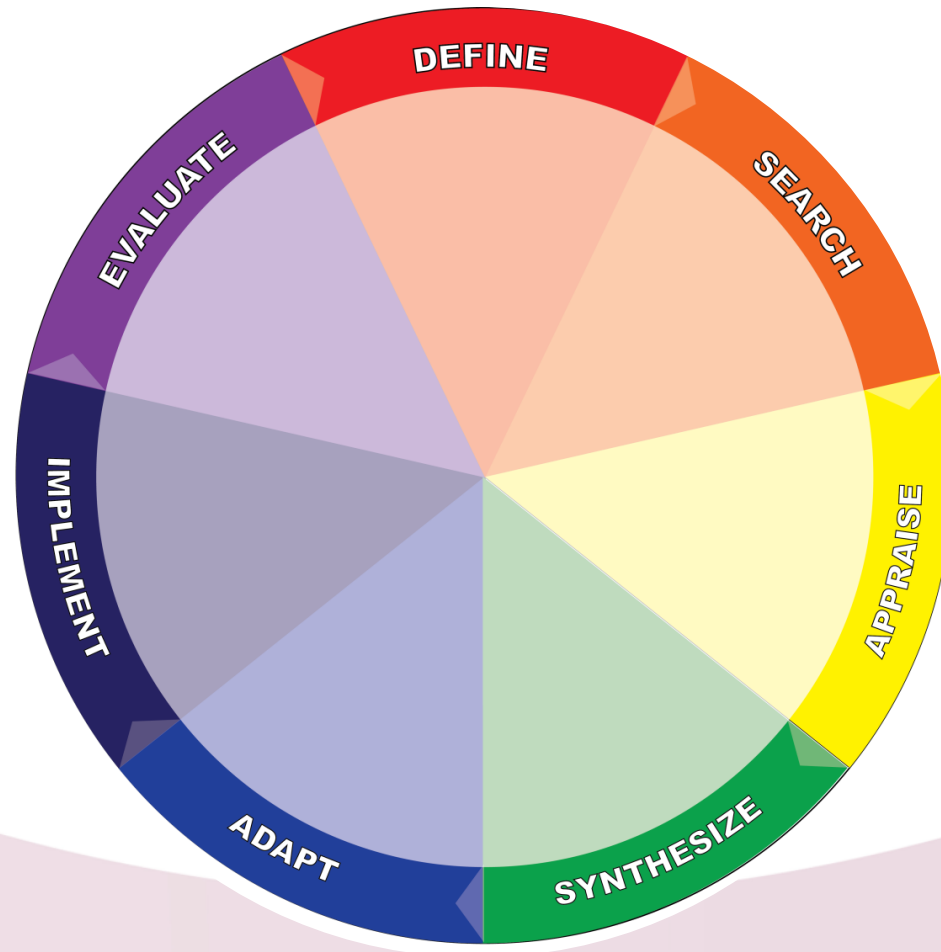
Mission

- Enhance *evidence-informed public health* in practice, programs and policy in Canada
- Provide leadership and expertise in supporting the uptake of *what works* in public health



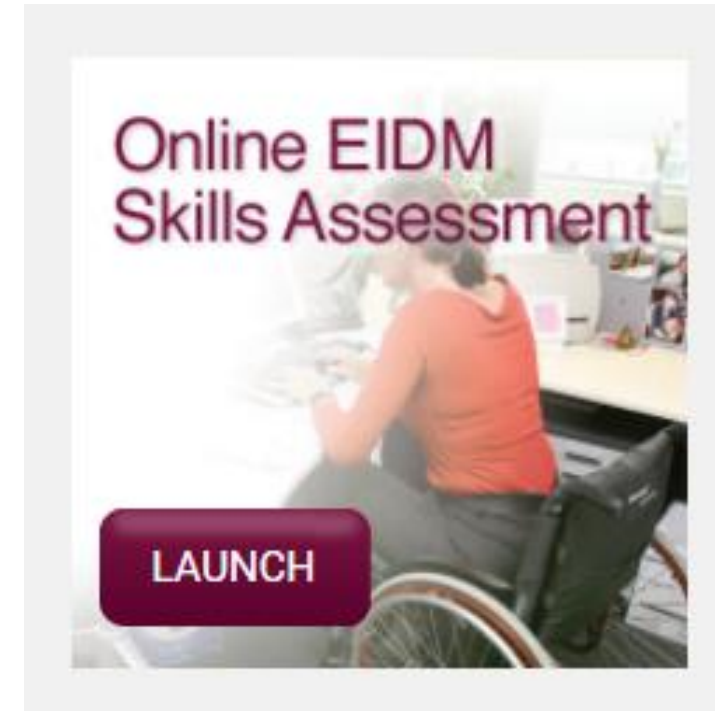
Stages in the process of

Evidence-Informed Public Health



Features

- Question randomization
- Questions testing skills in 13 evidence-informed decision making knowledge domains
- Personalized report



Skills Assessment - Example

Online EIDM Skills Assessment

Skills Assessment

Intro 1 2 3 4

5 6 7 8 9

10 11 12 13 14

15 16 17 18 19

20 Results

Online EIDM Skills Assessment

QUESTION 16 OF 20

16. What does situational analysis require?

- a) assessing who/what groups have an interest in a particular practice change and the extent of their influence
- b) assessing barriers and facilitators
- c) assessing the variation between present practice and the desired change in practice
- d) assessing likelihood of sustainability
- e) I don't know

Submit

Previous Next



Skills Assessment - Personalized Report

The screenshot shows a web interface for an "Online EIDM Skills Assessment". On the left, there is a navigation menu with buttons for "Intro", "1", "2", "3", "4", "5", "6", "7", "8", "9", "10", "11", "12", "13", "14", "15", "16", "17", "18", "19", "20", and "Results". The main content area is titled "Online EIDM Skills Assessment" and includes a "Print PDF" button. The text reads: "Thank you for completing the Online EIDM Skills Assessment." and "The preceding multiple choice questions were designed to assess your knowledge and skills in finding and using research evidence in decision making. The following report summarizes free, online learning opportunities available to improve your score." It also recommends starting with the online learning module "Introduction to EIDM" or the abbreviated module "EIDM Essentials". Below this, there are two sections: "1. Defining the Research Question Using PICO" and "2. Searching for Research Evidence". Each section is accompanied by a circular diagram with colored segments and a label. The first diagram is labeled "DEFINE" and the second is labeled "SEARCH".

Online EIDM Skills Assessment

Skills Assessment

Intro 1 2 3 4
5 6 7 8 9
10 11 12 13 14
15 16 17 18 19
20 Results

Online EIDM Skills Assessment

Print PDF

Thank you for completing the Online EIDM Skills Assessment.

The preceding multiple choice questions were designed to assess your knowledge and skills in finding and using research evidence in decision making. The following report summarizes free, online learning opportunities available to improve your score.

We also recommend starting with the online learning module *Introduction to EIDM*, or the abbreviated module, *EIDM Essentials*, to establish a solid foundation on which to build your capacity.

1. Defining the Research Question Using PICO

To learn more about defining a research question using PICO, we suggest you complete the *Searching for Research Evidence in Public Health* online learning module.

2. Searching for Research Evidence

To learn more about efficiently and effectively searching for research evidence, we suggest you complete the *Searching for*

© 2017 National Collaborating Centre for Methods and Tools



Users

- The Skills Assessment is useful for:
 - Students
 - Public health professionals
 - Managers/team leaders



Why use the EIDM Skills Assessment Tool?

- Evaluate own ability to understand and apply evidence in decisions
- Identify gaps in understanding and receive recommendations to support professional development



Evaluation and Analysis

- 709 users have accessed the tool
 - The tool has been accessed over 1,500 times
- The tool has been completed 975 times
- 75 users accessed recommended resources
 - These resources were accessed 312 times
- Overall user's mean score was 52.4%



Results

Themed Question	% of Users having correct responses
Q1: Define	82.9
Q2: Search	53.5
Q3: Appraisal – Intervention Studies	63.7
Q4: Applying Results	60.0
Q5: Appraisal – SRs	68.3
Q6: Interpreting Results	55.7
Q7: Interpreting Results	83.4
Q8: Interpreting Results	37.6
Q9: Interpreting Results	57.3
Q10: Interpreting Results	47.9
Q11: Applying Results	65.4
Q12: Study design – Quantitative	40.5
Q13: Search	48.0
Q14: Study design – Qualitative	27.5
Q15: Study design – Qualitative	53.9
Q16: Implement	53.5
Q17: Implement	49.4
Q18: Evaluate	56.3
Q19: Evaluate	44.9
Q20: Appraisal - All	38.5



User Feedback

- **Individuals who did not use the skills assessment indicated the following barriers:**
 - Lack of time
 - Lack of support from management
 - Were not aware this tool was available
- **Individuals who completed the skills assessment felt:**
 - Their understanding of own EIDM knowledge and skills improved;
 - They were able to identify appropriate resources for professional development;
 - Their EIDM knowledge and skills improved;
 - It is an effective learning method.



The EIDM Skills Assessment for Organizational Capacity Building

- **Guides organizations to create informed strategies to increase EIDM capacity of staff**
 - Managers and team leaders may use this tool to identify gaps in EIDM capacity
 - Plan tailored development at the organizational or individual level



Planned Enhancement for Groups

- **Four custom assessment functionality options:**
 1. Provide uniform or randomized questions for each person
 2. Choose a subset of questions, or all questions
 3. Report group data anonymously or with personal identifiers
 4. Complete multiple group assessments over time to measure changes in EIDM knowledge and skills



We want to hear from you!

Have you used the Online Evidence-Informed Decision Making Skills Assessment?

Please share your opinions with us in a brief survey.

<https://surveys.mcmaster.ca/limesurvey/index.php/645721?lang=en>



Questions?

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

NCCMT website: www.nccmt.ca

Contact: nccmt@mcmaster.ca

Follow us on Twitter: [@nccmt](https://twitter.com/nccmt)