

**NATIONAL COMMISSION FOR CERTIFICATION OF CME PROFESSIONALS
[NC-CME]**

Online Resources to Aid in Preparing for the CCMEP™ Examination

The following collection of Resources and Search Tips has been compiled by Dave Davis, MD of the Association of American Association of Medical Colleges and Laure Perrier, MLS, Med, of the University of Toronto's Faculty of Medicine, Office of Continuing Education and Professional Development.

The resource list draws heavily on the capacity of the Research and Development Resource Base in CME (www.cme.utoronto.ca >RDRB), an over 17,000-item database created for CME and related health professional fields. Based at the University of Toronto, the RDRB is supported in part by the AAMC, and is a highly useful resource, beyond the listings shown here. The purpose of this collection is to provide some useful materials to assist persons who plan to apply for the Certified CME Professionals (CCMEP™) credential and sit for the certification examination; the RDRB itself provides others.

The basis of the collection is the Content Outline of the NC-CME examination, as published at www.NC-CME.org. The five subject matter domains within the Outline describe information that CME professionals across the broad spectrum of the CME enterprise can be expected to know, as validated by a Job Analysis Survey conducted by Schroeder Measurement Technologies in February 2008.

Content Outline for the NC-CME Minimum Competency Examination

I. Adult Learning Principles (15% of total questions for the Certification Exam)

- A. Currently accepted theory and research on how physicians learn
1. Self-directed learning
 2. Formal instruction
 3. Informal/incidental learning
 4. Learning styles
 5. Learning preferences
 6. Stages of learning (including readiness to change)
 7. Psychosocial development/stage of practice (e.g., age, gender, years in practice)

Resources & Search Tips

The following Reading List may be helpful:

- Educational Theory:
<http://www.cme.utoronto.ca/research/bibedtheory.asp>

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Self Directed Learning
- Self Assessment
- Learning Style
- Informal Learning
- Incidental Learning

- B. Research on ways physicians change professional behaviors
 - 1. Stages physicians go through in changing
 - 2. Nature of instructional interventions

Resources & Search Tips

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Stages of Change
 - Change AND Learning
- Search RDRB by Author [HINT: Select Advanced Search > Authors]:
- Prochaska
 - Slotnick
 - Geerstma
 - Fox

II. Educational Interventions (30%)

- A. Professional literature
 - 1. Seminal papers
 - 2. CME effectiveness research

Resources & Search Tips

The following Reading List may be helpful:

- Effectiveness of CME:
<http://www.cme.utoronto.ca/research/bibeffectiveness.asp>
- Also try:
- Audit and Feedback:
<http://www.cme.utoronto.ca/research/bibfeedback.asp>
 - Chart Audit: <http://www.cme.utoronto.ca/research/bibchartaudit.asp>
 - Opinion Leaders :
<http://www.cme.utoronto.ca/research/bibopinionleader.asp>

Search RDRB by Author [rdrb.utoronto.ca]

[HINT: Select Advanced Search > Authors]:

- Davis
- Grimshaw
- Marinopoulos

- B. Gap analysis/synthesis of gap analysis findings

Resources & Search Tips

The following reading list may be helpful:

- Research to Practice – Gaps in Care:
<http://www.cme.utoronto.ca/research/bibgaps.asp>
- Also try:
- Barriers To Best Practice:
<http://www.cme.utoronto.ca/research/bibbarrier.asp>

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Gap Analysis
- Barriers to Practice
- Needs Assessment

- C. Needs assessment

Resources & Search Tips

The following reading list may be helpful:

- Needs Assessment: <http://www.cme.utoronto.ca/research/bibneeds.asp>
- Outcomes: <http://www.cme.utoronto.ca/research/biboutcomes.asp>
- Evaluation: <http://www.cme.utoronto.ca/research/bibevaluation.asp>

D. Target audience identification

E. Learning objectives and desired outcomes

Resources & Search Tips

The following reading list may be helpful:

- Objectives: <http://www.cme.utoronto.ca/research/bibobjectives.asp>
- Outcomes: <http://www.cme.utoronto.ca/research/biboutcomes.asp>
- Evaluation: <http://www.cme.utoronto.ca/research/bibevaluation.asp>

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Learning Objectives

F. Instructional design

1. Format and medium
2. Content scope, sequence and resources
3. Faculty identification and recruitment
4. Content Development
5. Assessment (e.g. intervention, outcomes)

Resources & Search Tips

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Instructional Design

G. Faculty training/development

H. Assessment

1. Instructional intervention
2. Instructional outcomes

Resources & Search Tips

The following reading list may be helpful:

- Outcomes: <http://www.cme.utoronto.ca/research/biboutcomes.asp>
- Evaluation: <http://www.cme.utoronto.ca/research/bibevaluation.asp>

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Instruction AND Assessment [HINT: Select Advanced Search]

I. Informal learning facilitation

Resources & Search Tips

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Informal Learning
- Mentoring

J. New forms of CME

1. Practice/Performance Improvement (PI)
2. Point-of-care learning

Resources & Search Tips

The following reading list may be helpful:

- Personal Digital Assistants / Handheld Computing:
<http://www.cme.utoronto.ca/research/bibpda.asp>

Some RDRB [rdrb.utoronto.ca] Search Terms:

- Point of Care
- Performance AND Improvement [HINT: Select Advanced Search]
- Practice AND Improvement [HINT: Select Advanced Search]