

**“PROSPERO does not currently accept registrations for scoping reviews, literature reviews or mapping reviews. PROSPERO is therefore unable to accept your application or provide a registration number. This decision should not stop you from submitting your project for publication to a journal.”**

## Scoping review protocol

### 1. Review Title & Question

**Title:** Librarian involvement in competency-based medical education: a scoping review

#### Review question:

Is there demonstrable evidence of librarian involvement in competency-based medical education?

#### Core question:

- How are librarians supporting CBME?
- **What outcomes have been used to measure the impact of librarian work in CBME?**
- Is there evidence that any of these outcomes affect clinical competence?
- What is the most impactful role played by librarians in supporting CBME?

### 2. Databases to be searched

Databases: Ovid/Medline or PubMed, Embase, ERIC, CINAHL, Scopus, LITA/LISA/LISTA(?)

For citations: Google Scholar, Web of Science, or SCOPUS

Grey Lit: (MLA, Chapters, ACRL, SLA GEA, AAMC, National Medical Association)

### 3. PICO

**Problem:** Competency-Based Medical Education

**Exposure(s):** Health Sciences Librarians

**Outcome(s):** TBD

### 4. List synonyms, related concepts, and controlled vocabulary for each concept

**Problem:** CBME

Competency based medical education

Competency-based medical education

CBME

Entrustable professional activities

EPA(s)

Self-directed learning

Evidence based medicine

Evidence based practice

IPE

Interprofessional education

Quality improvement

System based practice

Health systems science

Health services research

Translational research (+ education?)

Shared decision making

Case based learning

Problem based learning

**Exposure(s):** Health Sciences Librarians

library

libraries

librarian\*

Informationist\*

Information professional\*

**Outcome(s):** TBD**Eligibility Criteria****● Inclusion**

- UME only (except for GME reflecting on UME training?)
- United States only
- LCME accredited only? (look into DO competency based education)
- Include librarian in intervention

- **Exclusion**
  - non-English language publications

From Molly -- In terms of dates, really you could back up to 1998 (that's when – in my opinion - the very first AAMC movements towards libraries + CBME began to emerge – see [AAMC - Medical School Objectives Project - Report II - Contemporary Issues in Medicine - Medical Informatics and Population Health](#))

- **Types of study to be included**

Any study design or article type will be included?

## 5. Build a search

- **Concept #1**
- **Concept #2**
- **Concept #3**

## 7. Risk of Bias & Data Extraction

### Data extraction (selection and coding)

Charting as described in Arksey & O'Malley as “a technique for synthesizing and interpreting qualitative data by sifting, charting and sorting material according to key issues and themes....”

Variables for extraction

- Author, pub year
- Year study conducted
- study location
  - Country
  - State
  - Institution
- UME y/n **excluded from data collection form for now**
- Intervention, exposure
- Librarian role - leader, collaborator, curriculum designer
- Study aims
- Domain - EBM, IPE, etc.

- Methodology or design - program evaluation, curriculum development / evaluation, curriculum review, case report / study
- Outcome measures - satisfaction, competency-based, other?
  - Specific instrument?
- Findings - positive, no change, negative as related to measure

### **Risk of bias (quality) assessment**

All studies vs. subset?

## **8. Data Analysis**

### **Strategy for data synthesis**

- Descriptive analysis of the extent, nature and distribution of the studies included in the review
- Organize thematically by:
  - Content of librarian-led instruction
  - change in student attitude / perception of EPA?
  - change in student comfort / knowledge of CBME skills?
  - change in behaviors / practice?
  - stratify / categorize in terms of Kirkpatrick hierarchy?
- Tables / graphs summarizing evidence

### **Analysis of subgroups or subsets**

## **9. Miscellaneous Information**

- **Contact details for further information**
- **Organisational affiliation of the review**
- **Review team members and their organisational affiliations**
- **Anticipated or actual start date**
- **Anticipated completion date**
- **Funding sources/sponsors**
- **Conflicts of interest**
- **Stage of review**
- **Details of any existing review of the same topic by the same authors**