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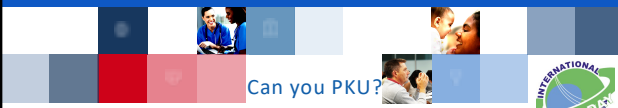
scoping reviews in clinical and medical education

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Can you PKU?

June 28th – [#pkudietchallenge](https://twitter.com/PKU_Day)

Tweet : @PKU_Day @NSPKU

10gm Protein today!
1 cup of rice = 4gm protein.

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Declarations of interest

- > JBI Program Director
- > Chair G-I-N Implementation Working Group
- > Cochrane Council Member
- > Cochrane Fields Executive Co-convenor
- > GRADE Implementation Working Group member
- > No direct or indirect financial interests with these roles or this presentation

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Why & What of Scoping methods

- > Why reviews at all?
- > What makes a review systematic?
- > What is a scoping review & what do they add?

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Characteristics of a SR

- > Protocol driven process
- > Clearly stated set of objectives with pre-defined eligibility criteria for studies
- > Explicit, reproducible methodology
- > Systematic search that attempts to identify all studies that would meet the eligibility criteria
- > Assessment of the validity of the findings of the included studies
- > Systematic presentation, and synthesis, of the characteristics and findings of the included studies

(Pearson, Weeks & Stern, 2011)

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Characteristics of a high quality SR

- > Clearly articulated objectives and questions
- > Inclusion and exclusion criteria, stipulated a priori (in the protocol)
- > Comprehensive search to identify all relevant studies (published and unpublished)
- > Critical appraisal of the included studies
- > Analysis of data extracted from the included research
- > Presentation and synthesis of the findings extracted
- > Transparent reporting of the methodology and methods used to conduct the review

(Aromataris & Pearson, 2014)

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Types of JBI Reviews

- Effectiveness Reviews - Scoping!
- Meaningfulness Reviews
- Costs/Economics Reviews
- Prevalence or Incidence Reviews
- Diagnostic Accuracy Reviews
- Aetiology and Risk Reviews
- Textual Synthesis Reviews
- Mixed methods Reviews
- Umbrella Reviews

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Why a JBI Scoping Review?

- > Reviews that determine the size/scope of a body of literature on a topic
- > Used to map the key concepts underpinning a research area, clarify working definitions and/or the conceptual boundaries of a topic, and identify gaps in the knowledge base
- > Useful for examining emerging evidence when it is still unclear what other, more specific questions can be posed and valuably addressed
- > Can inform future systematic reviews

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Volume Control

- > Past criticism – lack of evidence
- > Today - 75 trials, and 11 systematic reviews of trials, **per day**
 - Growth is not slowing
 - Some authors calling for less research



Policy Forum

Seventy-Five Trials and Eleven Systematic Reviews a Day:
How Will We Ever Keep Up?

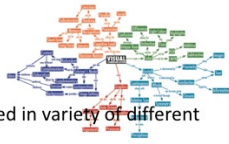
Hilda Bastien, "Four Questions" / JAMA. October 24, 2014.

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Mapping Concepts



> Key lessons from the experience:

- Mental health recovery can be defined in variety of different ways.
 - Recovery is an ongoing occupational process of gradual re-engagement, engaging with everyday life
- Occupational engagement is important in recovery:
 - recovering is experienced through engaging in occupations, which, in turn, fosters personal recovery.
 - Employment and volunteering have received most attention in studies of occupation and recovery

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Mapping the evidence

The scale of the evidence base on the health effects of conventional yogurt consumption: findings of a scoping review

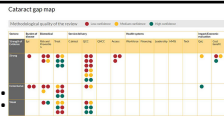
Julie M. Glanville^{1*}, Sam Brown¹, Raanan Shamir², Hania Szajewska³ and Jacquelyn F. Eales¹

- > Eligible studies: epidemiological, observational and experimental. A-priori, published protocol.

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Mapping the evidence



> Key lessons from the experience:

- bone health (14), weight management and nutrition related health outcomes (81), metabolic health (6); cardiovascular health (57); gastrointestinal health (24); cancer (39); diabetes (13), Parkinson's disease risk (3), all-cause mortality (3), skin complaints (3), respiratory complaints (3), joint pain/function (2); the remaining 8 studies reported a variety of other outcomes.

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Review

Developing frameworks


A scoping review and thematic classification of patient complexity: offering a unifying framework

Alexis K. Schaink¹, Kerry Kuluski^{1,5}, Renée F. Lyons^{1,5}, Martin Fortin², Alejandro R. Jadad³, Ross Upshur⁴, Walter P. Wodchis⁵

> to contribute to our understanding of complexity by performing a structured scoping review of descriptions and definitions of complexity in the literature

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Developing Frameworks



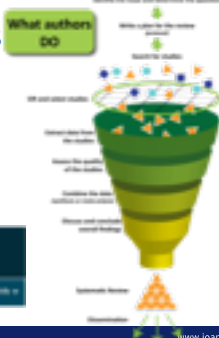
> Key lessons from the experience:

- Care challenges, burden, and cost have positioned complexity as an important health issue
- > We provide an overview of complex chronic conditions,
 - what is known about complexity, and describe variations in how it is understood.
 - We developed a Complexity Framework from these findings to guide our approach to understanding patient complexity.

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Informing SR topics

> **Scoping Review of Qualitative Evidence** on People's views and experiences of delivering and participating in microfinance interventions: The Joanna Briggs Institute for the UK Department for International Development, 2015.



Joanna Briggs Institute Database of Systematic Reviews and Implementation Reports

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Why & What of Scoping methods

- > What is a scoping review & what do they add to Clinical Medical Education (CME)?
 - Volume of evidence management
 - Clarity & clarification of CME research questions
 - Concept mapping of CME pedagogy
 - Evidence mapping of CME research volume, metrics and quality
 - Conceptual framework development for pedagogy & implementation in CME
 - Creating scholarship in CME based on needs/gaps analysis of secondary literature

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References

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