

A Systematic Review of the Factors Influencing Healthcare Managers' Engagement in Evidence Informed Practice

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Sigma Theta Tau International's 28th International Nursing Research Congress

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Background

- Prior systematic review examining the type of evidence used by health care managers
 - *Review and Synthesis of the Literature Examining Healthcare Managers' Use of Knowledge* (Cummings, et al. 2017)
- This review was conducted concurrently to a related review examining interventions to enhance healthcare managers' use of research evidence in their management practice (Tate et al. *In Preparation*)
- Follow-up to the review examining the types of evidence used by health care managers
- There is little knowledge around the evidence-informed decision making(EIDM) knowledge practices of healthcare managers.



Defining terms

- Health care managers
 - *Health care managers* were defined as persons employed in a formal management/leadership position at any level in a healthcare delivery organization (e.g. vice president, director, executive, manager)
 - *Research evidence* was defined as researcher-produced evidence that had been developed in accordance with standard scholarly practices



Purpose

- To conduct a systematic review to isolate factors predictive of research evidence use in the management practices of healthcare managers/leaders



Search Strategy

An academic librarian specializing in health sciences aided the research team in developing a comprehensive search strategy.

Key terms:

“decision-maker/making,”
“research use/utilization”
and “healthcare
managers/management

Period covered: 1982-2016

10 Databases (included, but not limited to):

CINAHL, MEDLINE, PsycINFO,
Cochrane Database of
Systematic Reviews and
Business Source Complete



Inclusion/exclusion criteria

- Set *a priori* by the complete research team (n = 7)
- Applied independently by two reviewers at both the title and abstract review stage and the full-text manuscript review stage
- Included studies:
 - reported on a primary study of healthcare managers, in which the goal (at least in part) was to identify factors related to healthcare managers' use of research in their management practice
- Excluded studies:
 - if the subjects were primarily policy-makers, if the focus was on clinical decision-making, or if, in the study, knowledge use was defined so broadly as to include non-research evidence



Quality Assessment

- We extracted relevant methodological details and results into a standardized data extraction template
- We appraised all qualitative papers using Letts, Wilkins, Law, Stewart, Bosch and Westmoreland's Critical Review Form – Qualitative Studies (Version 2.0) and all quantitative using Cummings et al.'s (2008) tool, which has been employed in multiple reviews to appraise cross-sectional, correlational and exploratory studies
- Studies containing both qualitative and quantitative results were evaluated using both appraisal tools
- Studies at all quality levels (low, medium, high) were included in the synthesis of results



Quality Assessment

Inspire.

Engage.

Lead.

Quality Appraisals	Number of Studies
High	15
Moderate	10

Study Characteristics

- 25 included studies

Country		Number of studies
USA		10
Canada		7
Iran		2
Taiwan		1
Brazil		1
Netherlands		1
Caribbean		1
United Kingdom		1
Australia		1
Quantitative	Mixed Methods	Qualitative
7	5	13

Inspire.

Engage.

Lead.



Synthesis

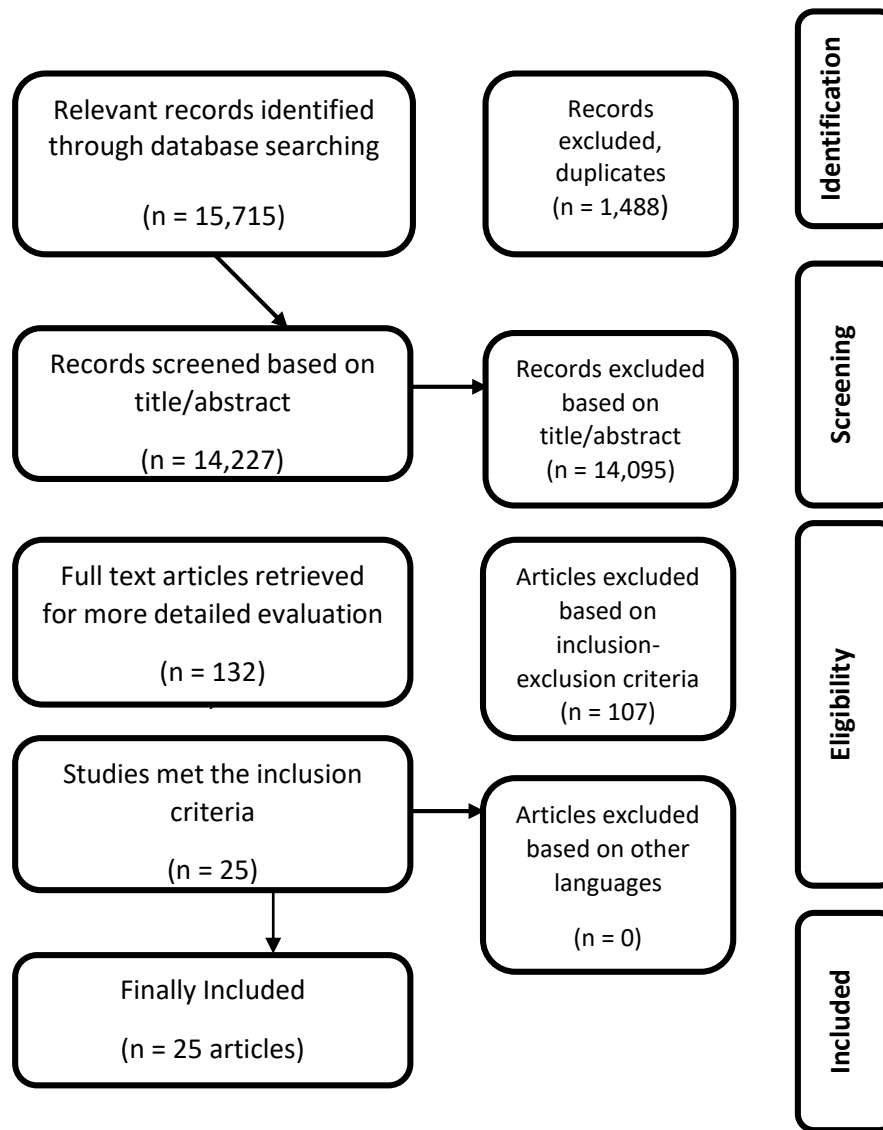
- ▶ Thematic analysis conducted independently by three individuals
- ▶ Common themes and sub-themes were identified
- ▶ Matrix developed to organize themes/subthemes
- ▶ Consensus meeting

Results

Inspire.

Engage.

Lead.





Results cont'd

■ Three major influencing factors

– Context

- level of commitment within the organization to support and implement evidence-informed management practices
- the presence of organizational policies and mandate
- the organization's philosophy that supports evidence-informed healthcare manager practices



Results cont'd

– Contextual barriers

- a lack of support
- organizational hierarchy, government policies and mandates that take priority over evidence
- the benefits of engaging in this EIDM practice were not quickly evident to the policy makers that comprised the larger context
- EBDM has not been incorporated as a value into organizations nor has the national macro plan been considered.
- the inability to implement strategies that are supported by the evidence due to factors beyond the leader's control e.g. budgetary constraints that leaders have no control over and non-technical issues.



Results cont'd

– Facilitators (17/25)

- Access to adequate human and non-human resources.
 - Human resources included;
 - » librarian
 - » knowledgeable staff (knowledge brokers, epidemiologists, data specialists)
 - » other leaders who could promote and support those wanting to implement evidence into practice
 - » leaders who 'buy into' EIDM, actively promote it and follow up to ensure implementation occurs
 - » leaders who make EIDM a priority



Results cont'd

- Non-human resources included;
 - » time to search, read, and apply evidence to management practices
 - » access to resources
 - » a technical infrastructure capable of supporting evidence-based practice

– Values

- organizations needed to value and have a philosophy that supported this practice as well as expectations related to the use of research. The organization needs to support EIDM and without this organizational 'buy-in', the practice was not implemented or implemented poorly.



Results cont'd

- Healthcare manager characteristics (12/25)
 - played a significant role in influencing use of evidence in their practice
 - Characteristics included:
 - Lack of:
 - understanding of evidence-based practice
 - training in research methods
 - research experience
 - trust in domestic evidence
 - leadership experience
 - critical appraisal skills
 - ability to read English research evidence
 - motivation and confidence



Results cont'd

- Lack of:
 - understanding of the importance of EIDM and limited awareness of EIDM among managers
 - authority to make changes in the clinical setting
- A negative attitude towards research evidence



Conclusion

- Without a supportive environment and the necessary resources within their institution, health care managers are much less likely to engage in EIDM practice.
- More attention must be paid to supporting healthcare managers to engage with the literature to inform practice.
- Champions of EIDM practices are needed if change is going to occur and ensuring that these individuals are incentivized to push practice forward.



Conclusion cont'd

- Without incentives managers are less likely to engage in EIDM
- Managers require additional training and support to engage in EIDM
- Accreditation can serve as one motivator for leaders to engage in EIDM as it is a measured outcome and there are consequences associated with the outcomes achieved.



Thank you!

Inspire.

Engage.

Lead.

