

The Helene Fuld Health Trust National Institute for Evidence-based Practice

EBP Knowledge and Competency in Nurses at Magnet and Non-Magnet Healthcare Institutions: *A National Survey*

Bernadette Mazurek Melnyk; Cindy Zellefrow Fathimath Shifaza; Hannele Saunders

iuld.nursing.osu.edu



In God We Trust,

Everyone Else Must

Bring Data!





EBP = The Quadruple Aim in Healthcare

- •Enhance the patient experience (includes quality)
- Improve population health
- •Decrease costs
- Improve the work life of healthcare providers





W RLDviews on EVIDENCE-BASED NURSINGTM

The Establishment of Evidence-based Practice Competencies for Practicing Registered Nurses and Advanced Practice Nurses in Real-World Clinical Settings: Proficiencies to Improve Healthcare Quality, Reliability, Patient Outcomes, and Costs

2014

Bernadette Mazurek Melnyk, RN, PhD, CRNP FAANP, FNAP, FANN Lynn Gallagher-Ford, RN, PhD, DPFNAP, NE-BC Lisa English Long, RN, MSN, CNS Ellen Fineout-Overholt, RN, PhD, FAAN

Download free at: <u>http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1741-</u> <u>6787/homepage/MostCited.html</u>



The State of EBP throughout the U.S.: Hot off the Press Findings from the National Competency Study





W RLDviews on EVIDENCE-BASED NURSINGTM

The First U.S. Study on Nurses' Evidence-Based Practice Competencies Indicates Major Deficits That Threaten Healthcare Quality, Safety, and Patient Outcomes

Bernadette Mazurek Melnyk PhD RN CRNP FAANP FNAP FAAN Lynn Gallagher-Ford PhD RN DPFNAP NE-BC Cindy Zellefrow DNP MSEd RN LSN PHNA-BC Sharon Tucker PhD RN FAAN Bindu Koshy-Thomas MSEd MS Lorraine T. Sinnott PhD Alai Tan PhD



W RLDviews on EVIDENCE-BASED NURSINGTM

Aims:

- describe the state of EBP competency in nurses across the U.S.
- determine important factors associated with EBP competency

Methods:

• Cross sectional anonymous descriptive survey with nurses across the U.S.







Sample:

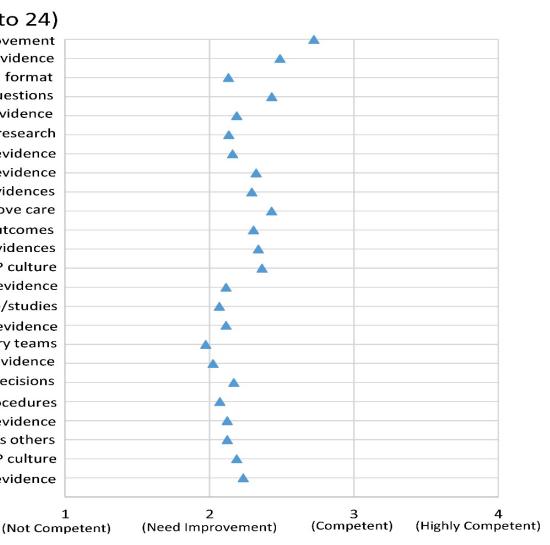
- 2,344 nurses from 19 hospitals/healthcare systems
- Mean age = 44.5 years
- 92% female
- 85% non-Hispanic White
- 58% had a bachelor's degree
- 69.2% worked in a Magnet organization





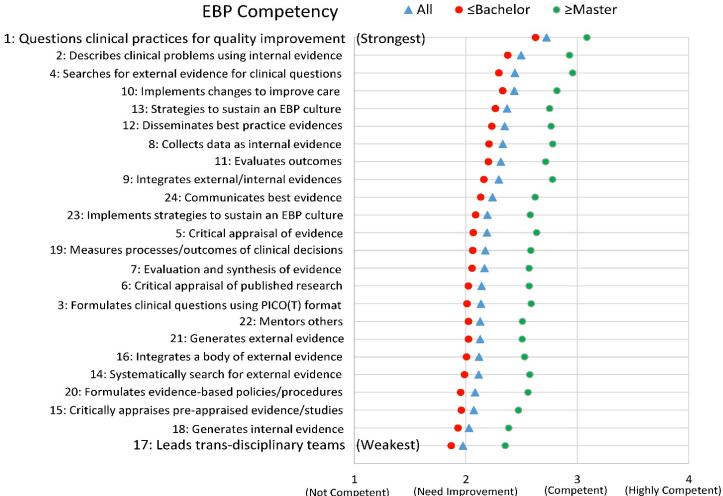
Reported Level of EBP Competency by the Nurses

EBP Competency (Items 1 to 24) 1. Questions clinical practices for quality improvement 2. Describes clinical problems using internal evidence 3: Formulates clinical questions using PICO(T) format 4: Searches for external evidence for clinical questions 5: Critical appraisal of evidence 6: Critical appraisal of published research 7: Evaluation and synthesis of evidence 8: Collects data as internal evidence 9: Integrates external/internal evidences 10: Implements changes to improve care 11: Evaluates outcomes 12: Disseminates best practice evidences 13: Strategies to sustain an EBP culture 14: Systematically search for external evidence 15: Critically appraises pre-appraised evidence/studies 16: Integrates a body of external evidence 17: Leads trans-disciplinary teams 18: Generates internal evidence 19: Measures processes/outcomes of clinical decisions 20: Formulates evidence-based policies/procedures 21: Generates external evidence 22: Mentors others 23: Implements strategies to sustain an EBP culture 24: Communicates best evidence





State of Self-reported EBP Competencies by Nurses Across the United States (N = 2075)



Melnyk et al 2018

(Not Competent)

(Need Improvement)



Correlations among EBP Competency and EBP Culture, Knowledge, Beliefs and EBP Mentoring

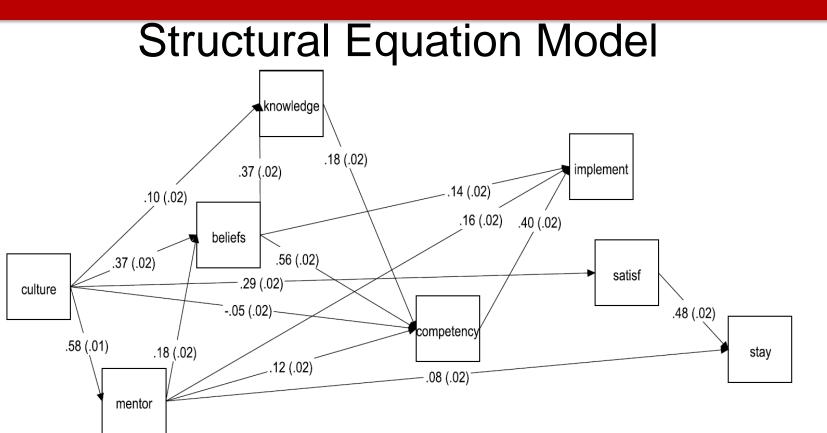
		Pearson Correlation Coefficient			
	Mean (SD)	Competency	Culture	Knowledge	Beliefs
Culture	80.2 (21.9)	0.29	_	_	_
Knowledge	19.5 (7.0)	0.43	0.28	_	_
Beliefs	56.7 (8.5)	0.66	0.47	0.42	_
Mentoring	21.4 (10.9)	0.69	0.69	0.24	0.47

P < 0.001 for all the Pearson correlation coefficients

THE OHIO STATE UNIVERSITY

COLLEGE OF NURSING

The Helene Fuld Health Trust National Institute for Evidence-based Practice



1. Figure shows the standardized coefficient (SE) of each path.

2. All paths are statistically significant.

3. The model has a close fit.

Chi-square =84.8, df = 12, p<0.001 (due to large sample size)

RMSEA = 0.051 (90% CI: 0.041-0.061)

CFI =0.987

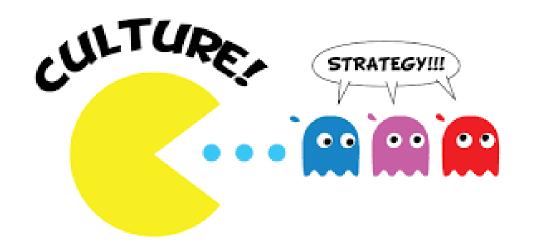
TLI = 0.969

4. No significant modification indices

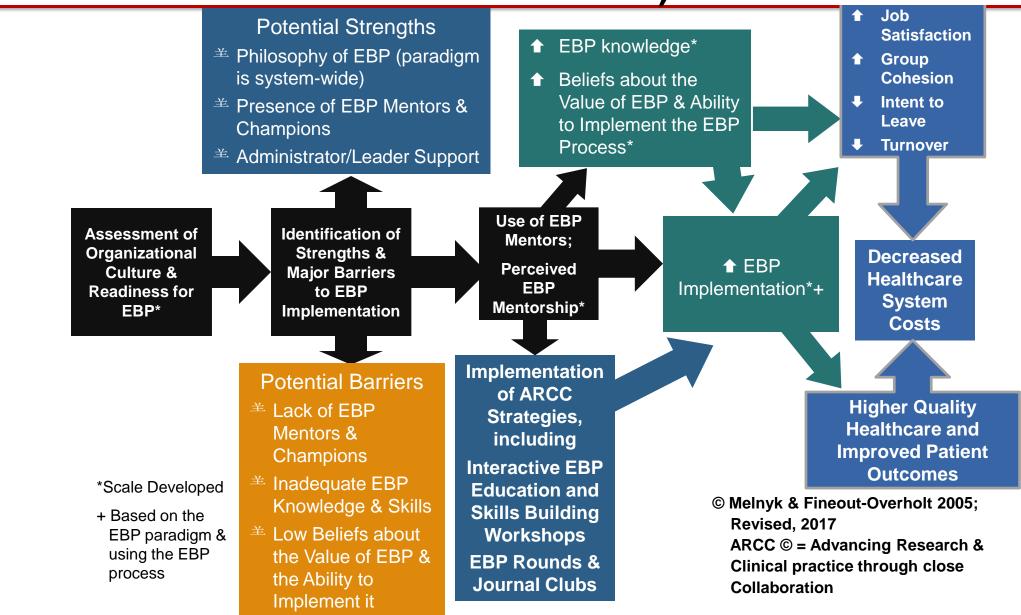


Creating a Culture and Environment to Assist Clinicians in Achieving the EBP Competencies and Sustaining EBP

Remember, Culture Eats Strategy!

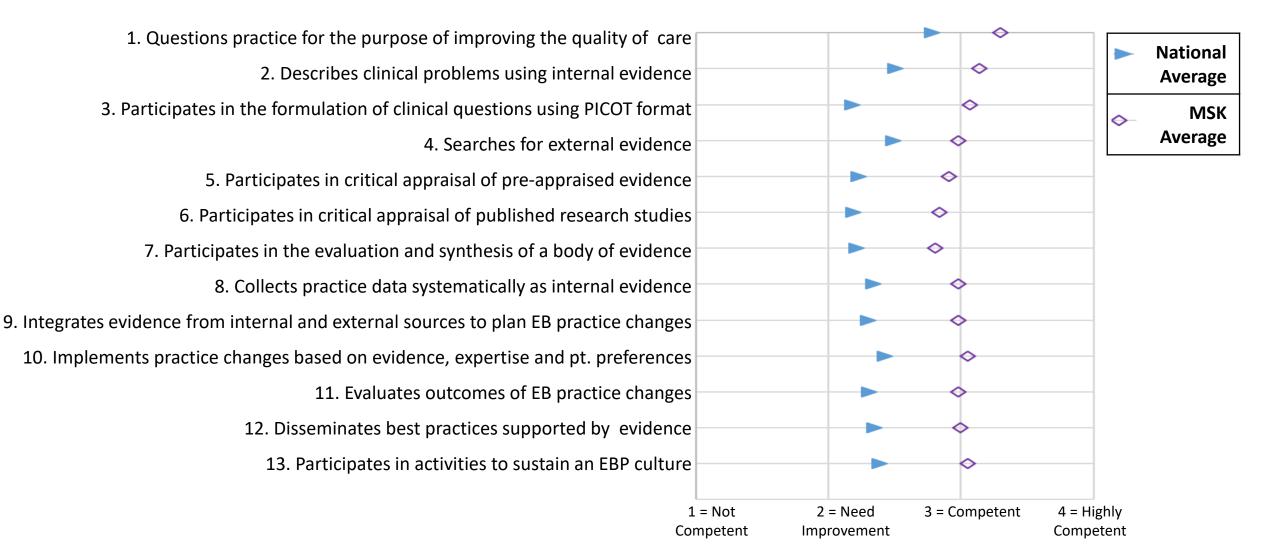


The ARCC[©] (Advancing Research and Clinical practice through close Collaboration) Model





EBP RN Competencies: MSK vs. National Study Data



Outcomes of Implementing the ARCC Model at Washington Hospital Healthcare System

- •Early ambulation in the ICU resulted in a reduction in ventilator days from 11.6 to 8.9 days and no VAP
- •Pressure ulcer rates were reduced from 6.07% to .62% on a medicalsurgical unit
- •Education of CHF patients led to a 14.7% reduction in hospital readmissions

The Ohio State University

COLLEGE OF NURSING

•75% of parents perceived the overall quality of care as excellent after implementation of family centered care compared to 22.2% pre-implementation

Melnyk et al., 2017, Worldviews on Evidence-based Nursing



What will you do in the next 90 days to advance EBP if you know you cannot fail?

Keep dreaming, discovering and delivering!!!

There Is A Magic In Thinking Big!



The Helene Fuld Health Trust National Institute for EBP in Nursing & Healthcare took 10+ years for the dream to become reality

Inaugural Fuld National Expert Forum and Summit October 18-20, 2017 Recommendations just published in Worldviews on Evidence-based Nursing

See https://fuld.nursing.osu.edu/







 Fuld EBP Summit, November 21 & 22, 2019
EBP Certificate Approval by the Accreditation Board for Specialty Nurse Certification (First Accredited Certificate of Added Qualification in EBP)



Contact Information

Copyright, 2018 Bernadette Mazurek Melnyk

melnyk.15@osu.edu

614-292-4844

Follow me on Twitter @bernmelnyk