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Empowering Nurses Through Evidence-Based Practice (EBP), Quality Improvement (QI), and Research

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Butler, Eve and Prentiss, Andrea, "Empowering Nurses Through Evidence-Based Practice (EBP), Quality Improvement (QI), and Research" (2016). *All Publications*. 1946. https://scholarlycommons.baptisthealth.net/se-all-publications/1946

This Conference Lecture -- Open Access is brought to you for free and open access by Scholarly Commons @ Baptist Health South Florida. It has been accepted for inclusion in All Publications by an authorized administrator of Scholarly Commons @ Baptist Health South Florida. For more information, please contact Carrief@baptisthealth.net. Empowering Nurses Through Evidence-Based Practice (EBP), Quality Improvement (QI), and Research

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Announcements and Disclosures

In order to prevent bias, we acknowledge: We have no commercial support! Free from any conflicts of interest that could influence content.

Objectives

As a result of this presentation, participants will be able to:

Discuss differences between evidencebased practice, quality improvement, and research.

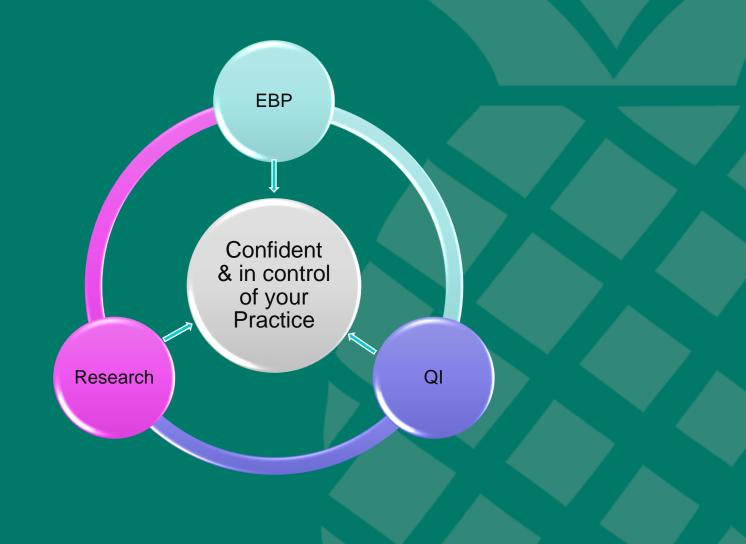
Explain the challenges and rewards of conducting evidence-based practice, quality improvement, and research projects

Empowered

 Cambridge Dictionary (2016) defines empowerment as something that makes you more confident and makes you feel that you are in control of your life



Three Ways to become Empowered in Your Practice



Institute Of Medicine (IOM) has set a goal that by 2020, 90 percent of clinical decisions will be supported by accurate, timely, and up-to-date clinical information, and will reflect the best available evidence. (IOM, 2008)



What is the Goal of EBP, QI, and Research?

To provide care to patients that is based on scientific evidence and meets the patient's needs...



To improve clinical outcomes.

Evidence-Based Practice



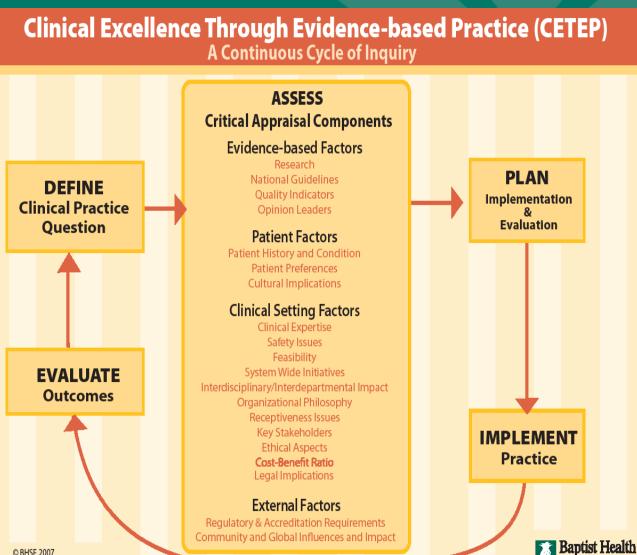
Evidenced-Based Practice

Definition

Evidence-based practice is "a total process beginning with knowing what clinical questions to ask, how to find the best practice, and how to critically appraise the evidence for validity and applicability to the particular care situation. The best evidence then must be applied by a clinician with expertise in considering the patient's unique values and needs. The final aspect of the process is evaluation of the effectiveness of care and the continual improvement of the process" (DePalma, 2000).

EBP Models

John Hopkins Nursing EBP Model Iowa Model of EBP to Improve Quality Care Stetler Model of **Research** Utilization ACE Star Model of Knowledge Transformation Clinical Excellence Through Evidencebased Practice (CETEP)



Quality Improvement

Research

- "Systematic, data-guided activities designed to bring about immediate positive changes in the delivery of health care in particular settings."
- Improving the quality of care of patients is a fundamental obligation of health care providers.
- The QI process involves evaluating and learning from experience.

Hastings Center (2006)

 A systematic investigation, including research development, testing and evaluation, designed to develop or contribute to generalizable knowledge.
 45 CFR 46.102(d)

Quality Improvement

Research

Similarities: QI & Research

- Involve human participants
- Concerned with inquiry
- Engage in a process where empirical or systematic inquiry generates a question that data is designed to answer
- Propose outcome measures that will support proposal
- Testing of solutions
- Critical Evaluation of the data

QI	Research
Improves performance or processes to strengthen patient care.	Answers a question or hypothesis to advance general knowledge
Findings used for internal improvement.	Findings contribute to generalized knowledge outside of the hospital
Implementation of established evidence- based standards.	Investigates untested methods or standards.
Implementation will result in direct benefit	Subjects may not directly benefit from knowledge gained
Follows the <i>plan, do, study, act</i> cycle	Follows a research design (e.g. randomization)
Usually involves all or most people participating in the process	Involves a subset of the population with inclusion and exclusion criteria

QI	Research	
HIPAA covers the use of protected health information for QI purposes	Must get written consent from patients and identify how health information will be protected	
May make changes during the process based upon preliminary data	No deviation from set protocol. Data is usually not analyzed until completion	
The hospital agrees that it is a QI project. Project is not a risk or burden to patients	Approval from the hospital <i>and</i> the institutional review board (IRB) needed	
The results are not initially intended to be published; may be published as a quality project.	Results are expected to be published and presented outside the hospital	
Not funded by an external research grant.	External funding may be sought.	
Merrill (2015)		

QI- Three Components of Health Care Quality

Structure
Resources
Process
How the system works/measures aspects of care
Outcome
The final product/outcome Donabedian (1980)

Reducing pressure ulcer rates:

- Number of RNs working
- Frequency of pressure ulcer risk assessment
- % of patients who get a pressure ulcer

QI Tool

•Determine what modifications should be made.

•Prepare a plan for the next test.

State the objective of the test.Make predictions about what will happen and why.

•Develop a plan to test the change. (Who? What? When? Where? What data need to be collected?)

Plan

Do

Study

Act

Complete the analysis of the data.
Compare the data to your predictions.
Summarize and reflect on what was learned.

Carry out the test on a small scale
Document problems and unexpected observations.
Begin analysis of the data.

Research Process

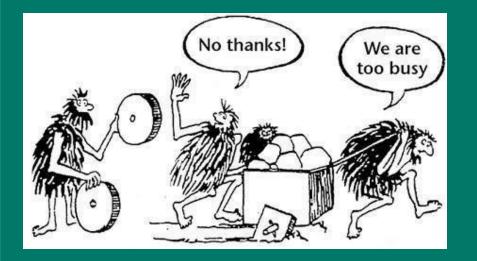
Research Ideas	"Burning clinical Question
Systematic Review of Literature	Start writing literature review
Planning	Who? What? When? Where? How?
Research Tasks	 Study design, Budget, IRB Proposal, Consent, Type of data, Data collection forms, Letters, Inclusion/exclusion, Time line, Power analysis
Research Activities	 Recruit subjects, Enroll subjects, Interventions, Follow up, Collect data, Enter data, Analyze data, Write Abstract, Write Manuscript Houser, J. and Bokovoy, J. (2006).

Roadblocks to EBP, QI, and Research



Lack of time Lack of knowledge Lack of interest Human resources Limited organizational/peer support Breimaier, Halfens, & Lohrmann 2011 Solomons & Spross, 2011

Facilitators for EBP, PI, and Research



Access to Information Sufficient time Structural availability Human resources Team Breimaier, Halfens, & Lohrmann 2011



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How to get Started?

Ask a Question

WHAT?WHAT?WHO?WHO?WHY?WHY?WHY?

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