

Slide 1

**Implementing Evidence into Practice  
OR  
Generating New Evidence?**

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Children’s Mercy, Kansas City

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BEST PATIENT EXPERIENCE  
MAGNET PROGRAM

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Slide 2

**Objectives**

[http://www.slideshare.net/ywesley/differenc  
e-between-qj-ebp-research](http://www.slideshare.net/ywesley/differenc-e-between-qj-ebp-research)

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Slide 3

**Terminology or Alphabet  
Soup?**

IRB  
CINAHL  
QI  
RCT  
PICOT  
PI  
PDSA  
EBP

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Slide 4

### What we know...

- > Patient treatments should be based in evidence (IOM, 2001)
- > EBP is a necessary nursing competency (IOM, 2010)
- > 90% of clinical decisions based on evidence by 2020 (IOM, 2010)
- > QI, EBP, & Research expectations continue to rise (ANCC, 2009)
- > Nurses rely on colleagues and personal experience (Gerrish, Ashworth, Lacey & Bailey, 2008)
- > Tenured nurses have deficits in Research, EBP and QI methodologies (Lacey, Olney, & Cox, 2012)
- > Barriers within health care system (Melnyk, et al., 2012)

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### What we know...

- > Educated nurses = Great patient Advocates
- > Mentors make a difference!
- > Patient outcomes improve with QI / EBP / Research



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Slide 6

### How Do We Decide?



**Research**

- Generation of new knowledge
- Informs EBP

Asking is the Answer

**Evidence Based Practice**

- Integrates best evidence into practice
- Informs QI

**Quality Improvement**

- Use of existing knowledge to improve internal performance
- Informs EBP

Act, Plan, Study, Do

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### Area of Confusion: HUMAN Subjects



- Amount of risk or benefit to participants
- Confidentiality / Anonymity
- Generalizability
- Ability to get published

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### Comparison

	Research	EBP	CM
<b>Method</b>	Rigorous (Qualitative & Quantitative)	Implementation of Research Findings	PDSA Tests of Change
<b>Sample</b>	Representative	Patient Population	Unit Level
<b>Human Subjects</b>	Need IRB	?? IRB	? IRB
<b>Data Collection</b>	Validity	Pre-Post Implementation	Evaluation
<b>Results</b>	Add to science	Impact	Improve Processes <small>(Dimitroff, 2011)</small>
<b>Implications</b>	Understanding Change	Practice Change	Process Change

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Slide 9

### Small Group Work



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Slide 10

**Resource Availability**

- > Medical librarians
- > Electronic databases
  - ◆ PubMed
  - ◆ CINAHL
  - ◆ EMBASE
  - ◆ Google Scholar
- > QI, EBP and Research Experts



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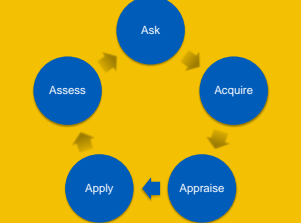
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Slide 11

**Implementing an EBP Model**



Oxford  
5A  
Model

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Slide 12

**Looking at Data**

“You can’t manage what you don’t measure” - **W. Edwards Deming**



*Measures tell a team if the changes they make are making a difference. It tells you where you are and where you are going*

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Slide 13

Measuring for Improvement		
	Research / EBP?	EBP? / QI
Purpose	To discover new knowledge	To bring new knowledge into daily practice
Tests	One large "blind" test	Many sequential, observable tests
Biases	Control for as many biases as possible	Stabilize the biases from test to test
Data	Gather as much data as possible, "just in case"	Gather "just enough" data to learn and complete another cycle

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**Measurement Steps**

Plan for Data Collection  
 Create Operational Definition  
 Collect Data  
 Interpret the Data



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**Attribute Data**  
 Represents discreet units, binary in nature

**Classification:** noting the presence or absence of some characteristic or attribute – grouping into 1 of 2 categories (late/on-time, yes/no)  
**Count:** counting how many characteristics or attributes occur

**Examples of Count or Classification Data:**

- # of complications per # of surgeries this month
- # of medication errors per 1000 doses
- Percent of patients who were readmitted
- # of patients who fell per 100 admissions
- Percent of diabetic patients who smoke

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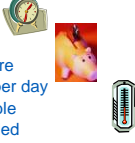
Slide 16

**Continuous Data**

The number is a quality characteristic of the data

Examples of Continuous Data:

- Waiting time
- LOS
- Cost per case for a DRG
- Time to complete procedure
- Number of patients seen per day
- Monthly accounts receivable
- Volume of prescriptions filled



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Slide 17

**Reliability and Validity**

Can you repeat the process multiple times and get the same result?

Does the process really measure what you are trying to measure?

- Data Source*
- Operational Definitions*
- Collection Plan*



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**Measurement- Four Key Point**

1. Understand the Problem
2. Understand the Factors Leading to Variation
3. Establish a Baseline Level of Performance
4. Measure the Impact of Interventions

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**Small Group Work**



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Slide 23

**Questions??**

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U.S. NEWS & WORLD REPORT

WAGNET  
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