Knowledge Mastery...Improving Patient Outcomes

Bringing Evidence to the Point of Care

t, Susan B Stillwell, 2007

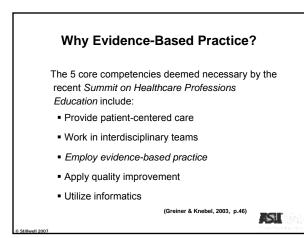
Susan B Stillwell MSN RN CNE EBP Mentor Clinical Associate Professor Center for the Advancement of Evidence-based Practice Arizona State University College of Nursing & Healthcare Innovation

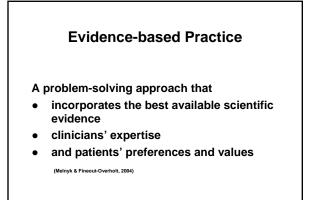
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Why Evidence-Based Practice?

Rule 5 of the 10 Rules for Healthcare in Crossing the Quality Chasm is evidence-based decision making (IOM, 2001)

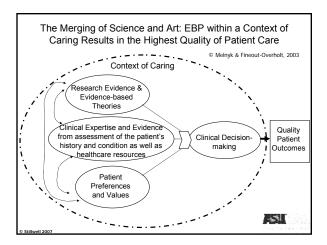
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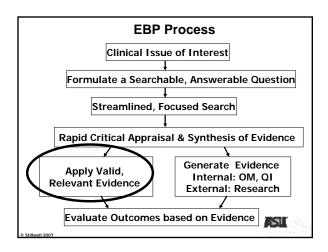


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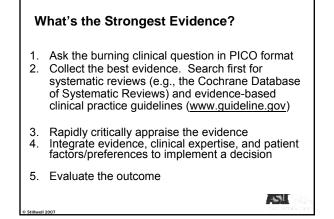
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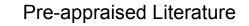




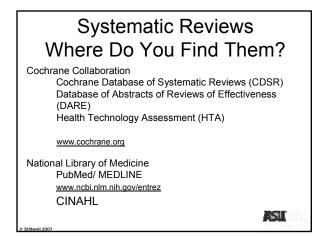


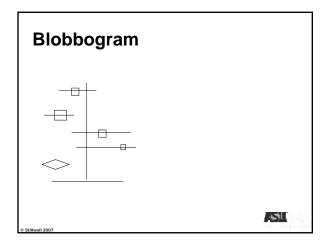






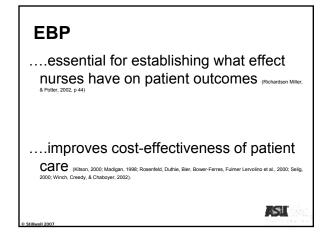
- Systematic reviews
- Evidence-based Guidelines
- Single study reviews











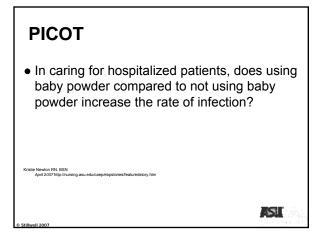
Kristie Newton RN, BSN April 2007 Hepfinisting assudducespetopatorie/featuredesory.htm

• For as long as I have been a nurse, I have used baby powder when bathing my patients. I have used it to freshen up patients, rub their backs, and sometimes as an air freshener. So you can imagine my confusion when baby powder disappeared from the supply room. At first, I figured we were just out of it, since other items were on back order. However, when I noticed they had eliminated the bin used for baby powder, I began asking questions. All I was told was we were not using baby powder anymore, "it causes infections." I could not believe this explanation. What does baby powder have to do with infections? After all, it is safe for babies, why not patients?

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why, after 20 years of nursing, was this the first time I had ever heard about baby powder being bad for patients

Kristie Newton RN, BSN April 2007 http://nursing.asu.edu/caep/ebpstories/featuredstory.ht



study after study linking baby powder to topically yeast infections and fungal infections in immunocompromised patients, and how it was detrimental when talc was inhaled for respiratory patients, i.e. asthmatics. I was speechless. Why had I never heard of this before? Apparently, these studies had been available for years....

Kristie Newton RN, BSN April 2007 http://nursing.asu.edu/caep/ebpstories/featuredstory.htm

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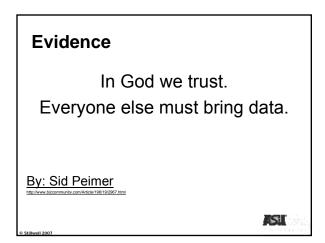
It's NOT Funny

• Central Venous Catheter Removal

60 y/o patient had been receiving IV fluids via a central line. A 4X4 gauze with silk tape was applied after removing the catheter. Soon after, the clinician told a very funny story and the patient burst into laughter. The patient stopped laughing, slumped over and fell to the floor. The patient was unresponsive and a code was called. The resuscitation effort was unsuccessful.

(Massoorli, 199

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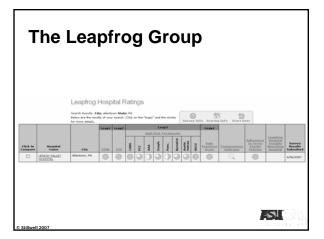
Evidence: Clinical Decision Making to Improve Patient Outcomes

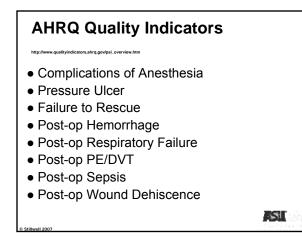
Internal

- •Risk management data •Quality improvement data: pressure ulcer rates, falls,
- VAP
- Benchmarks
- Staffing levels
- Nurse satisfaction data
- Patient satisfaction data

ExternalOriginal research

- ◆Qualitative◆Quantitative
- Pre-appraisedSystematic reviews
- ♦Meta-analysis





National Quality Forum (NQF)

- Failure to Rescue
- Pressure Ulcer
- Falls
- Falls with Injury
- Restraints
- Urinary Catheter Associated UTI
- Central Line Blood Stream Infection
- VAP
- Smoking Cessation Counseling: AMI, HF, Pneumonia

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National Database of Nursing Quality Indicators (NDNQI) - examples

- Pediatrics IV infiltration rate
- Pediatric pain assessment (AIR)
- Nurse Turnover
- RN education/certification

http://www.nursingquality.org/

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IHI 5 Million Lives Campaign

- Pressure Ulcers
- Decreasing MRSA
- High Alert Medications
- Surgical Complications
- EBP for CHF
- Rapid Response Team
- Medication Reconciliation

EBP Outcomes: Outcomes reflect IMPACT!

EBP's effect on patients:
Physiologic
Psychosocial
Functional improvement.

EBP's effect on the health system:
Decreased cost, length of stay;
Nursing retention / job satisfaction;
Interdisciplinary collaboration.

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The 4-Step

Step One What is the clinical problem? What is the desired outcome? What instruments can measure the outcome?

Baseline Data

Adapted from Anne Wojner-Alexandrov, EBP Outcomes Model

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Step Two Appraise the evidence e.g. reliable, valid, applicable Who are the stakeholders involved? What will be the new practice? Establish integrity of the practice to be implemented

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Step Three

Communicate, educate, communicate Role model the change

Collect Data

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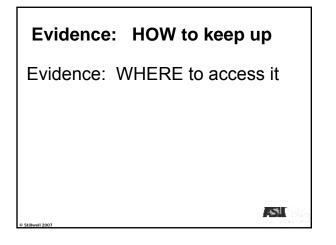
Step Four Terminate data collection cycle Analyze the impact Communicate findings Revision? Return to Step Two

Adopt the practice change and continue to monitor outcome

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"It is wise to keep in mind that neither success nor failure is ever final."

Roger Babson



A Systematic Evaluation of Evidence Based Medicine Tools for Point-of-Care
• SCC/MLA 2006
Texas Health Science Libraries Consortium

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	dacc.tmc.edu	papersintin	
Raw	Evidence	Important/Not As Important	Levels
ACP PIER	ACP PIER	ACP PIER	ACP PIER
eMedicine	Clinical Evidence*	Clinical Evidence*	Clinical Evidence*
DynaMed	DynaMed	DynaMed	Diseasedex – General Medicine
Clinical Evidence*	Clinical Resources @ Ovid	eMedicine	DynaMed
Clinical Resources @ Ovid	eMedicine	Diseasedex – General Medicine	InfoPOEMS/InfoRetriever
UpToDate	UpToDate	Clinical Resources @ Ovid	Zynx Evidence
Diseasedex – General Medicine	Diseasedex – General Medicine	UpToDate	eMedicine
FirstConsult	InfoPOEMS/InfoRetriever	InfoPOEMS/InfoRetriever	Clinical Resources @ Ovid
InfoPOEMS/InfoRetriever	FirstConsult	FirstConsult	UpToDate
Zynx Evidence	Zynx Evidence	Zynx Evidence	FirstConsult
Harrison's Practice: Answers on Demand	Evidence Matters	Harrison's Practice: Answers on Demand	Prodigy Knowledge*
Prodigy Knowledge*	Harrison's Practice: Answers on Demand	Evidence Matters	Harrison's Practice: Answer on Demand
Evidence Matters	Prodigy Knowledge*	Prodigy Knowledge*	Evidence Matters



ACP Journal Club

<u>http://www.acpjc.org/</u>

Biomedical literature articles that report original studies and systematic reviews Summarized in abstracts Commented on by clinical experts Subscription required

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InfoPOEMs

• <u>http://www.infopoems.com/</u> Patient-Oriented Evidence that Matters PICO question, answer, citation, study design, funding source, setting and summary

InfoRetriever – search engine Subscription required \$249 30 day free trial

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http://www.uptodate.com/

UpToDate

• a comprehensive evidence-based clinical information resource available to clinicians on the Web, desktop, and PDA.

Subscription required \$495 Trial available

National Guideline Clearinghouse for PDAs

• <u>http://www.guideline.gov/resources/pda.aspx</u>

Guideline Summaries in a text format can be downloaded

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Institute for Clinical Systems

• http://www.icsi.org/

Guidelines, order sets and protocols Subscription required

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Sumsearch

http://sumsearch.uthscsa.edu/

- SUMSearch combines searching in order to automate searching for medical evidence.
- SUMSearch
 - ✤ selects the best resources for your question
 - formats your question for each resource
 - makes additional searches based on results

University of Minnesota Biomedical Library

• <u>http://www.biomed.lib.umn.edu/help/guides/p</u> <u>rimary/ebp#toc36025</u>

Multiple EBP Resources and Databases

PICOmaker

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TIGER initiative http://www.umbc.edu/tiger

- enable practicing nurses and nursing students to fully engage in the unfolding digital electronic era in healthcare
- identify information/knowledge management best practices and effective technology capabilities for nurses.
- create and disseminate local and global action plans that can be duplicated within nursing and other multidisciplinary healthcare training and workplace settings.

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http://www.cpmrc.com/

- The Clinical Practice Guidelines support the interdisciplinary team in delivering their scope of practice accountability while integrating services at the point of care.
- Clinical Practice Resource Model (subsidiary of Eclipsys)

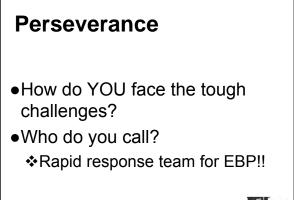
Connecting the Dots

Knowledge Mastery

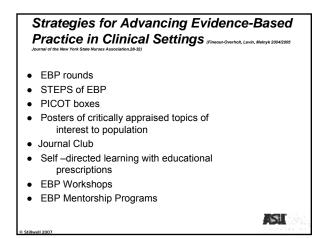
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Improving Patient Outcomes

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Perseverance	
Persistence	
Patience	
Practice	
Possibilities	
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Role Modeling is the Most Powerful Variable in Success

What is experienced and seen in the clinical area is what will likely predict future behavior.

Bob Berenson

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Belief at the beginning of an endeavor is the one thing that will ensure success

Implement and Teach Evidence-Based Practice YOU CAN DO IT!

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