



Objectives

- •
- Integrate 3 complimentary perspectives to translate knowledge and evidence into practice to improve outcomes Examine the relationship of implementation, fidelity and reliability sciences •
- Apply methodology rigor to advance evidence-based practice Showcase at least 2 examples of implementation science from pilot test to enculturation . .

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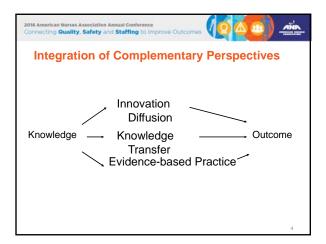
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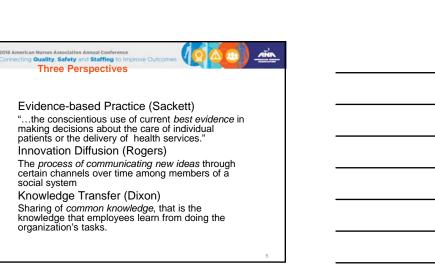
Challenges to improve the conduct and reporting of patient safety interventions are keys to evaluation

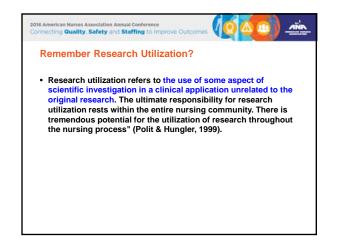
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- Describe the theory: theory or logic why patient safety practice works
- · Describe the patient safety practices in detail
- · Detail implementation process
- · Assess outcomes and the influence of context (external factors, organizational characteristics, teamwork and leadership, management tools)

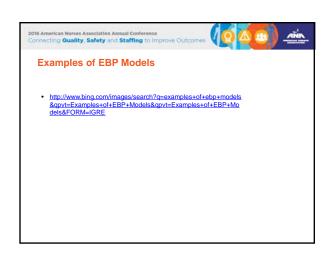
Shekelle, et al., (2011). Advancing the science of patient safety. Annual of Internal Medicine. 154(10): 693-696

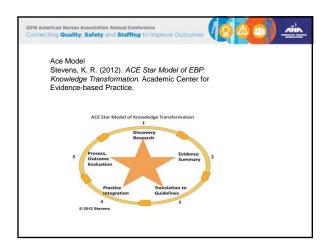


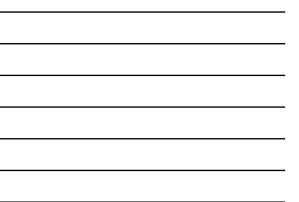




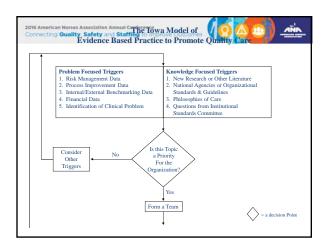
2016 American Nurses Association Annual Conference Connecting Quality, Safety and Staffing to Imp Models THE CURN MODEL: The Conduct and Utilization of Research in Nursing (CURN) project. Developed in 1975-1980 by the Michigan State Nurses Association with 34 hospitals participating. This model exemplifies a structures, formal organizational process that requires organizational commitment, resources, and research expertise. THE STETLER MODEL: The Stetler Model design is a structure for using the research conducted and create a vehicle for changing policies and procedures. Individual nurses, such as practitioners, educators, and policymakers, summarize research and use the knowledge to influence educational programs, make practice decisions, and impact political decision making (Burns & Grove, 1997). THE ACE STAR MODEL: The Cycle of Knowledge Transformation® is a new model for evidence-based practice (EBP) that organizes both old and new concepts of improving care into a whole and provides a framework with which to organize EBP processes and approaches" (Stevens, 2002). THE IOWA MODEL: The Gwal Model of Research in Practice permeates research into practice to improve the overall quality of healthcare, and is a product of the Quality Assurance Model Using Research. Research utilization is viewed as an organizational process through which principles are utilized to merge research and practice. The lowa model includes both multidisciplinary team approach evidence-based healthcare. • •



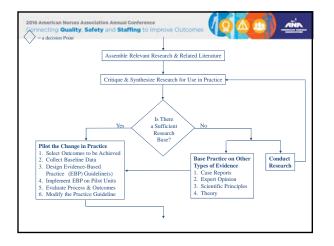




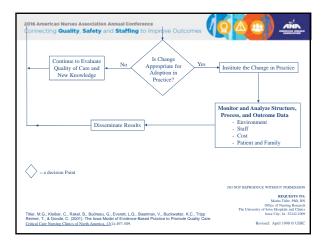








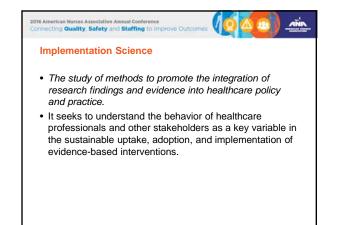






		Based				hange to
M	edscapes	www.mediscape.com				
	1. Assess read for change in	2. Link problem	3. Synthesize best evidence	4. Design practice sharps	5. Implement and evaluate change in	6. Integrate and maintain change in
	practice	and outcomes			pactice	practice
	Include stakeholders Collect	Use standardized classification	Search research Renoture	Define proposed change	+ Flat study demonstration + Evaluate	Communicate seconimended change to
	internal data about current plactice	systems and language - kternity	related to major vari- atries	Identify readed resources	process and outcome - Decide to	stakeholders - Presert staff inservice
	Company internal data with	potential interventions and activities	Critique and weigh evidence	Plan imple- mentation process	arlapt, adopt, or reject practice	education on change in practice
	extential data • Identify problem	Select dutcomes indi- tattors	 Synthesize best evidence Assess trasibili 	Define outcomes	sharge	 Integrate inta standards of princtice
	222.0	222	ity, benefits, and risk			- Monitor process and putcomes





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Questions Asked

Implementation science creates generalizable knowledge that can be applied across settings and contexts to answer central questions.

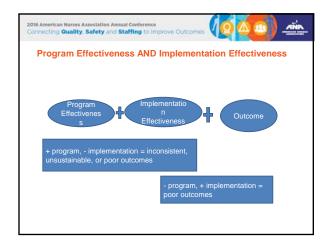
- Why do established programs lose effectiveness over days, weeks, or months?
- Why do tested programs sometimes exhibit unintended effects when transferred to a new setting?
- How can multiple interventions be effectively packaged to capture cost efficiencies and to reduce the splintering of health systems into disease-specific programs?

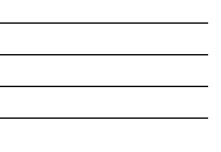
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- Identifying and adopting what works is not enough to achieve successful outcomes
- Evidence-based programs and practices still have to be delivered with fidelity / integrity in diverse and complex real-world settings

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• One of the strongest messages coming from the research is fidelity—the quality with which the treatment is delivered – in crucial to successful outcomes (Lipsey et al. 2010)





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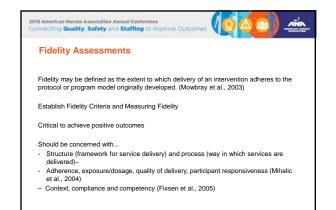
Research Examples

- Comparisons of multiple evidence-based interventions
- Identification of strategies to encourage provision and use of effective health services
- Identification of strategies to promote the integration of evidence into policy and program decisions.
- Appropriate adaptation of interventions according to population and setting
- Identification of approaches to scale-up effective interventions
 Development of innovative approaches to improve healthcare
- delivery
- Setting up an impact evaluation for a population based intervention

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Why invest in Implementation Science

- Implementation science recognizes and address the multitude of gaps that impede evidence-based interventions from producing optimal health outcomes. These knowledge and practice gaps include:
- "Research-to-policy" gaps which exist when research evidence is not adequately or appropriately considered and integrated in the development of health outcomes.
- "Research-to-program" gaps which exist when research evidence is not adequately or appropriately considered and integrated in the development of health policy.



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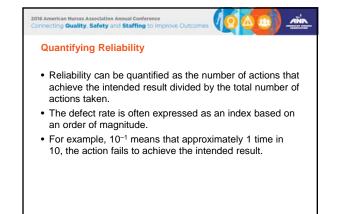
Answer these questions

- If you change structure, what is the effect on process and outcomes?
- If you implement a change in practice, what approach to implementation did you use?
- How confident are you what you are testing is being done?
- How do you measure reliability (accuracy, timeliness) of implementation?
- How do you know the change is being effective?

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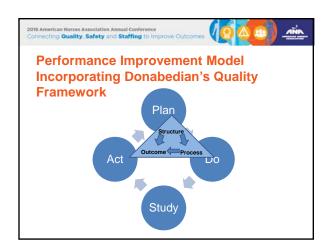
Reliability Science

- Reliability defined as "the capability of a process, procedure or health service to perform its intended function in the required time under existing conditions."
- developed out of industries such as nuclear power and aviation, which place great emphasis on reducing error rates to protect the public.
- a measure of the internal consistency and stability of a measuring device.
- how often does something: happen when it is supposed to happen?
 It has been applied to health care only recently but is quickly being recognized as one of the underpinnings of quality improvement.

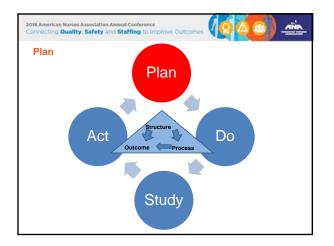


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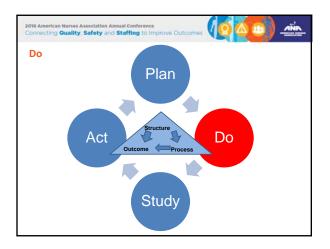
- Standardize your approach
- Build decision aids and reminders into your systems
- Take advantage of pre-existing habits and patterns
- Make the desired action the default, rather than the exception
- · Create redundancy
- · Bundle related tasks
- Encourage teamwork, feedback and training



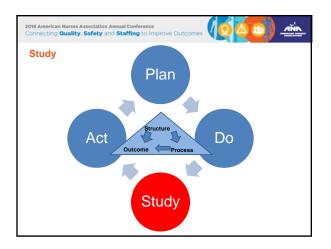




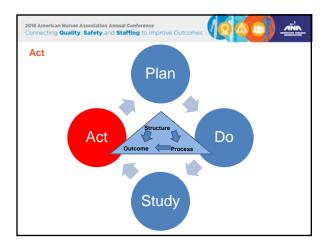








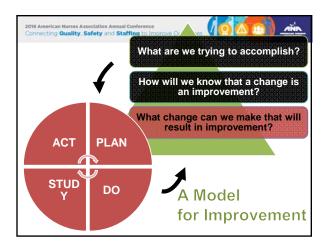




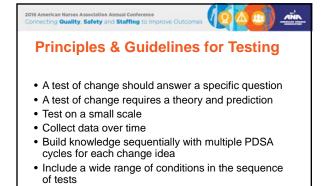


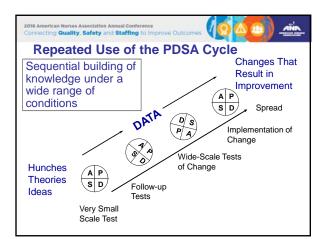




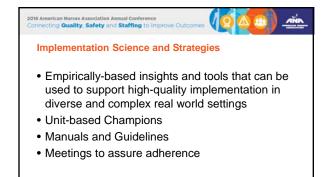


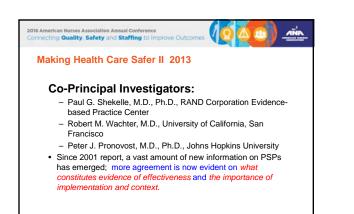




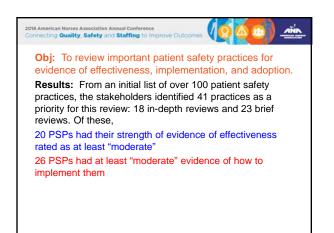


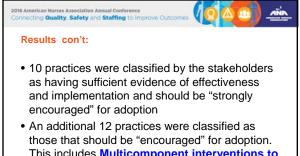












This includes Multicomponent interventions to reduce falls







provider education materials.

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Technology Resource Guide: Bedside Floor Mats



 Bedside floor mats protect patients from injuries associated with bed-related falls.

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 Targeted for VA providers, this web-based guidebook will include: searchable inventory, evaluation of selected features, and cost.

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SQUIRE

- <u>Standards for Quality Improvement</u> <u>Reporting Excellence</u>
- Writing is part of safety and quality work
- The guidelines provide an explicit framework for sharing the knowledge acquired by examining those interventions closely, carefully, and in detail.



- Results: What did you find?
- Discussion: What do the findings mean?
- Other Information: Were other factors relevant to conduct and interpretation of the study?





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- High Reliability Organizations are those that achieve a high degree of safety or reliability despite dangerous or hazardous conditions1
- Minimize errors and achieve exceptional performance in patient safety and quality
- Some studies indicate that core processes in health care are defective 50% of the time , and
- Patients receive only approximately 55% of the care that they should when entering the health care system 2

 Weick, K. E., & Sutcliffe, K. M. (2007). Managing the Unexpected: Resilient Performance in and Age of Uncertainty, Second Edition. Sam Francisco, CA: Jossey-Bass. ZResar, R.K. (2006, August). Maing Noncratastrophic Health Care Processes Reliable: Learning to Walk before Running in Creating High-Reliability Organizations. Health Services Research, 81(492): 1677-1689.



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NIH Resources on Dissemination and Implementation Research in Health (DIRH)

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- Knowledge Translation Resources from Canadian Institutes of Health Research WHO's Implementation Research Platform
- •
- NH's New and Early Stage Investigator Policies UNC Chapel Hill's North Carolina Translational and Clinical Sciences Institute: Dissemination & Implementation portal •
- UNC Chapel Hill's Active Implementation Hub
- NIH Fogarty International Center's Implementation Science resource site
 WHO/UNICEF et al's Training in Tropical Diseases site
- Journal: <u>http://www.implementationscience.com</u>

