

Differentiating Research, Evidence-based Practice, and Quality Improvement

	Quality Improvement	Evidence-Based Practice	Research
Purpose	<p>Improve patient care, work flow, productivity, costs, systems, and quality processes (internal evidence generation)</p> <p>Monitor and evaluate quality and appropriateness of best practices and care delivery</p>	<p>Change practice using best evidence, clinical expertise, and patient preferences/values (evidence implementation)</p> <p>Translate best existing knowledge into practice</p>	<p>Systematic discovery of new knowledge (external evidence generation)</p> <p>Discover, develop, test, describe, explain, predict, explore, and add new knowledge when the evidence is not sufficient in the literature</p>
Question	Are we doing the best thing at the right time in the right way?	Are we doing the best thing?	What is the best thing to do?
Methods Used	<p>Lean Principles</p> <ul style="list-style-type: none"> • A3 EBP Focus PDCA • A3 PDCA Problem Solving • Strategy A3 • A4 Daily Problem Solving 	Iowa Model	<p>Scientific Method</p> <p>Qualitative, quantitative, or mixed methods research designs</p> <p>Includes randomized controlled trials, observational studies, surveys, focus groups</p>
Timing	<p>Rapid cycle*</p> <p>* Long-term exceptions</p>	<p>Planned</p> <p>Timeline varies based on available best evidence</p>	<p>Planned</p> <p>Timeline longer</p>
IRB	Strongly recommend consultation with Nursing IRB Coordinator prior to project initiation	Strongly recommend consultation with Nursing IRB Coordinator prior to project initiation	Required
Example	<u>Compliance with EBP</u> Guideline for Oral Hygiene and Incidence of Nosocomial Respiratory Infection	<u>Evidence-Based Practice Guideline</u> for Oral Hygiene to Reduce Nosocomial Respiratory Infections	<u>Randomized Controlled Trial</u> of Oral Decontamination with 0.12% Chlorhexidine for Prevention of Nosocomial Respiratory Infections
Dissemination	<p>Unit and organization</p> <p>May publish</p>	<p>Practice standards, protocols, pathways within the organization</p> <p>May publish</p>	<p>Scientific community</p> <p>Expected to publish</p>

Differentiating Research, Evidence-based Practice, and Quality Improvement

	Quality Improvement	Evidence-Based Practice	Research
Clinical Nurse Role	<ul style="list-style-type: none"> Identify process that requires improvement Collect and analyze data Generate recommendations Implement processes for change Analyze organizational barriers and cost effectiveness of changes Implement processes to decrease barriers/cost and improve care and outcomes Disseminate findings 	<ul style="list-style-type: none"> Identify the clinical problem Search for the best evidence Critically appraise the evidence Synthesize the evidence Apply (Implement) the best evidence Evaluate outcomes Disseminate findings 	<ul style="list-style-type: none"> Participate in appraising, designing and conducting research Serve as collaborator, research team member, role model, and mentor Disseminate research findings to scientific community
Sample	Unit or Organization Level	Patient Population	Representative Sample
Data collection	Evaluation	Search and Appraise	Validity and Reliability
Rigor/Control	Less formal and rigorous	May be more rigorous and prescriptive	Most rigorous Use tight protocol to control for extraneous variables - provides confidence that results from an intervention are not due to chance
Results	Improve process Not generalizable	Impact practice Not generalizable; May be transferable	Add to body of knowledge Produce knowledge generalizable beyond the study sample
Implications	Process Change	Practice Change	Understanding Change
Other Examples	Improving Discharge Time Improving Documentation of Critical Lab Values Reducing Infection Associated with Indwelling Catheters	Assessing the Standard for Chemotherapy-induced Nausea and Vomiting Positioning in the OR to Prevent Pressure Ulcers Early Mobilization to Prevent Pneumonia	Quality of Life Outcomes in Surgical Patients with Pneumonia Symptom Clusters in Patients with Heart Failure