

THE ECOSYSTEM OF EVIDENCE

Navigating the future
of the ecosystem of evidence

Artificial intelligence and digital transformation
in research and healthcare

11th EBHC International Conference
Taormina, 21st – 24th October 2026

#EBHC2026

Promoting Evidence Literacy:

Using Artificial Intelligence to Strengthen Evidence-Based Healthcare Competency in Nursing

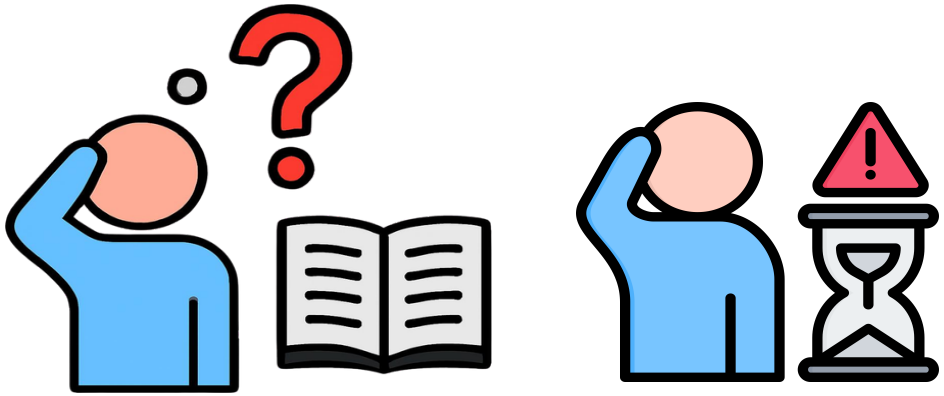
Kim Bissett
Johns Hopkins Hospital/Institute
for Johns Hopkins Nursing

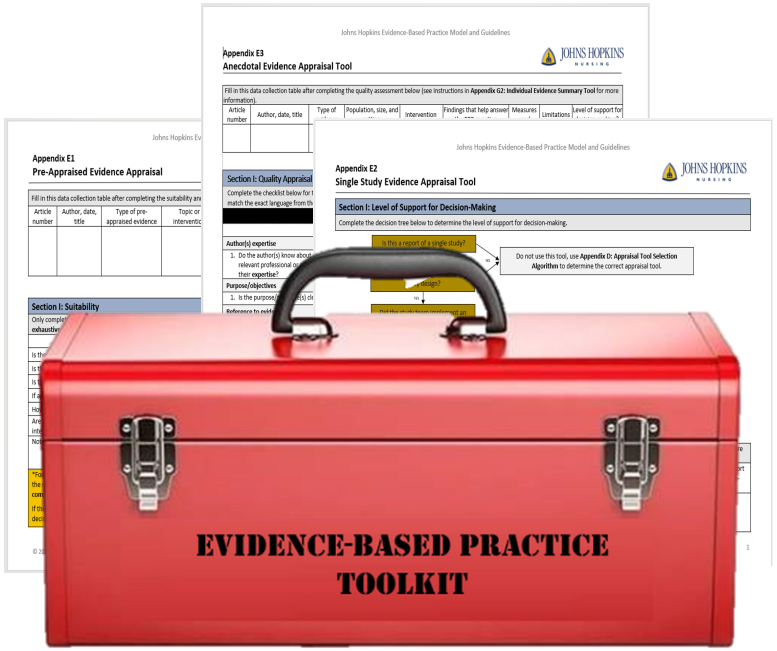
30th GIMBE 1996-2026 EVIDENCE FOR HEALTH

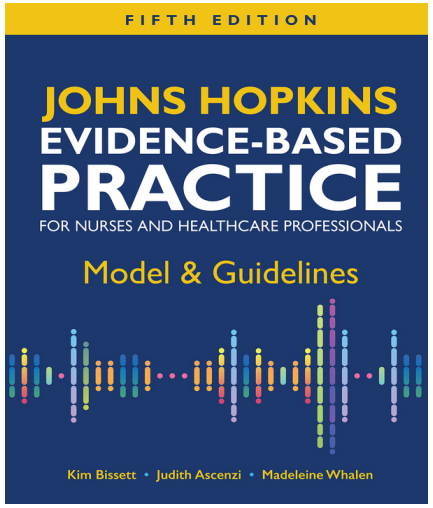
International Society for Evidence-Based Health Care

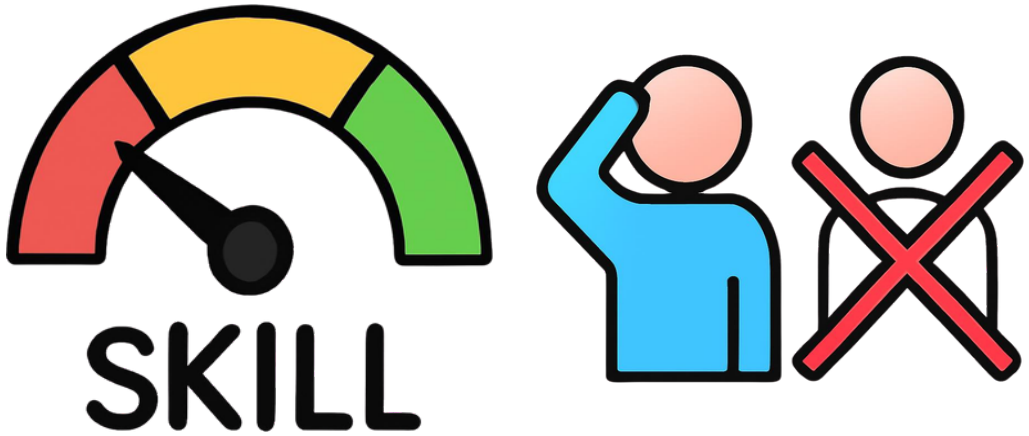
Background


Practice Question
Evidence
Translation




Johns Hopkins Evidence-Based Practice Model and Guidelines
Appendix E3
Anecdotal Evidence Appraisal Tool
Appendix E1
Pre-Appraised Evidence Appraisal
Appendix E2
Single Study Evidence Appraisal Tool
Section I: Level of Support for Decision-Making
EVIDENCE-BASED PRACTICE TOOLKIT


FIFTH EDITION
JOHNS HOPKINS
EVIDENCE-BASED
PRACTICE
FOR NURSES AND HEALTHCARE PROFESSIONALS
Model & Guidelines
Kim Bissett • Judith Ascenzi • Madeleine Whalen

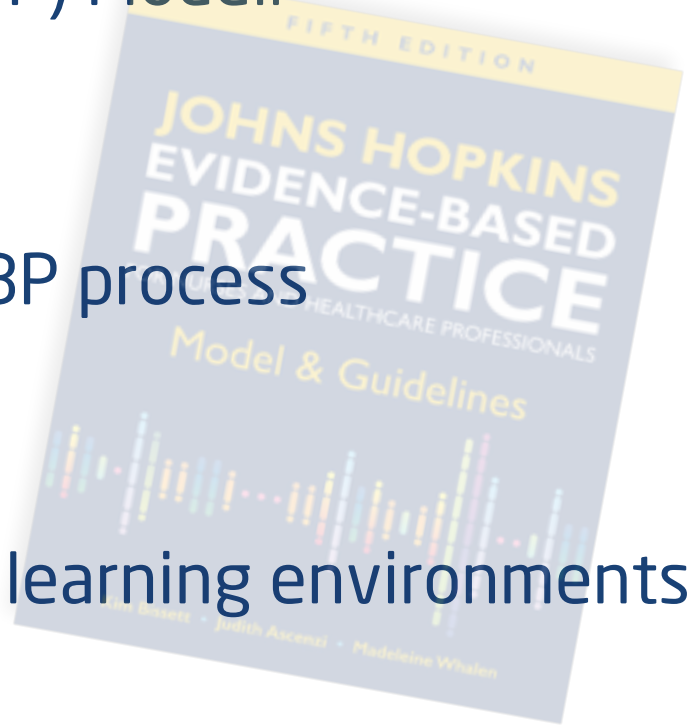

SKILL

Aims

- To evaluate an AI-supported, scenario-based, gamified educational approach, grounded in adult learning principles, to teach the 5th edition of the Johns Hopkins Evidence-Based Practice (EBP) Model.

The goals were to:

- ⇨ Increase nurses' knowledge of the EBP process
- ⇨ Strengthen practical skills
- ⇨ Enhance engagement in small-group learning environments

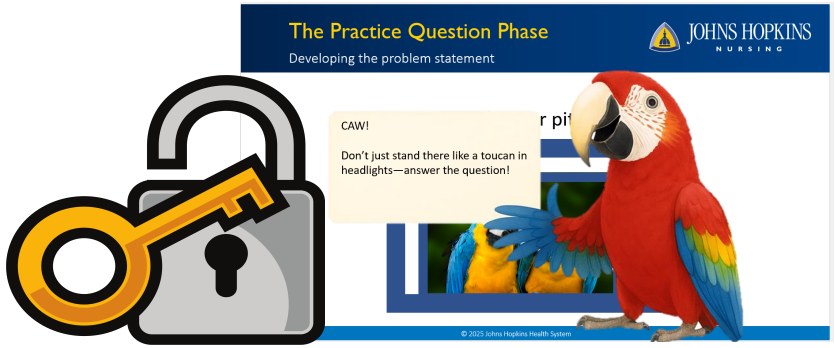


Methods

Interactive workshops (delivered both in-person and virtually)

Shorter Sessions:

- Adventure Themes
- Escape room style
- Answer questions to unlock next steps



Longer Sessions:

- Used AI-assisted dossiers
- Fictitious hospitals
- Navigate the entire EBP process



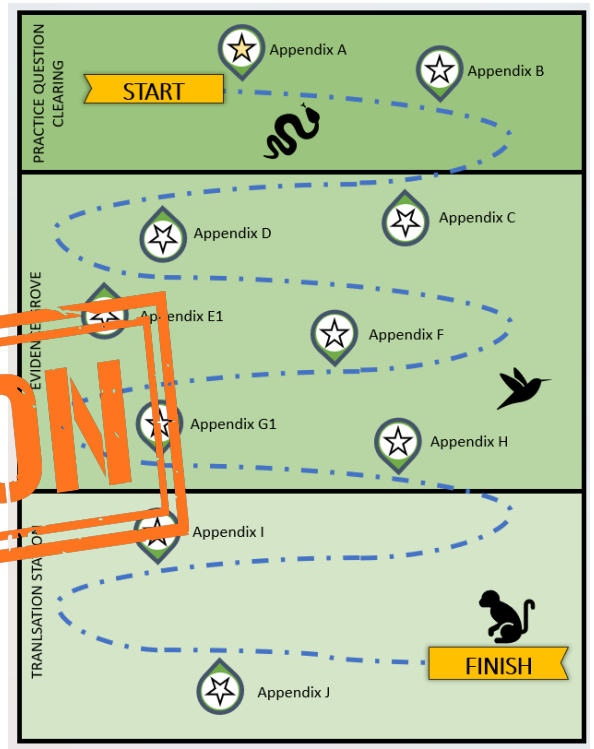
Methods

"Write a case scenario to accompany this article. Focus on nurses looking for options that do not require a medication order. Create a team mission to develop a protocol with hints and tasks."

-uploaded a systematic review dealing with antivenom administration

1. Background
2. Trigger event
3. Mission
4. Clues
5. Learning areas

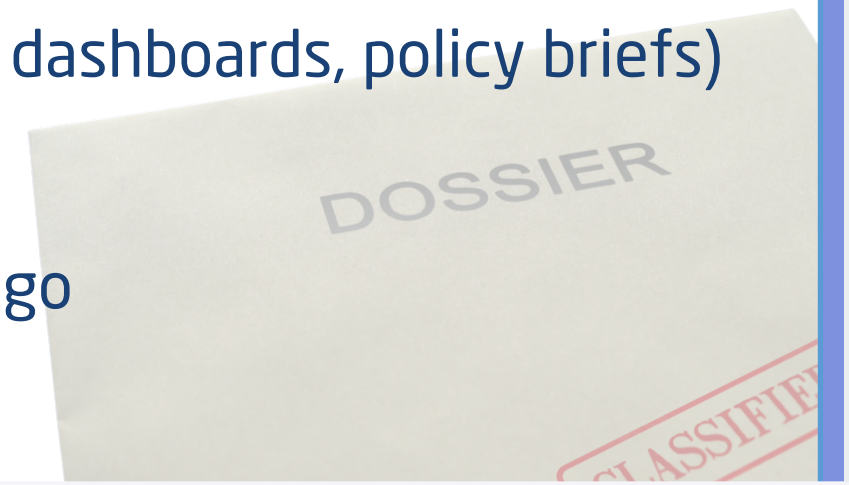


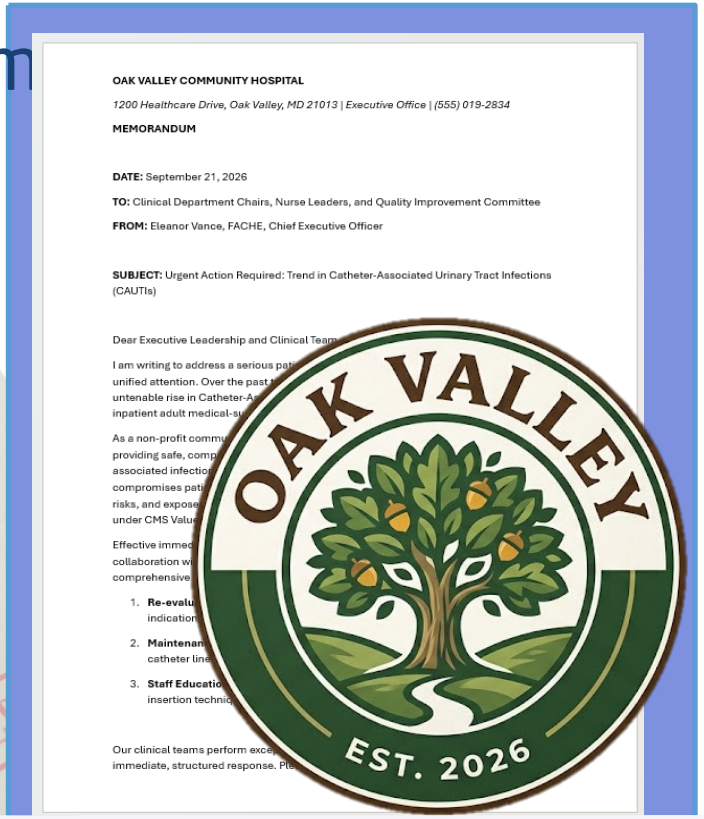


Methods

"Build a case scenario for practicing the EBP process around a fictitious hospital with an increase in CAUTI. Provide supporting documents nurses can review to discover the problem

1. Project Background & Case Scenario
2. Supporting Documents (email, dashboards, policy briefs)
3. Cast of Characters
4. Hospital Demographics and Logo





OAK VALLEY COMMUNITY HOSPITAL

1200 Healthcare Drive, Oak Valley, MD 21013 | Executive Office | (555) 019-2834

MEMORANDUM

DATE: September 21, 2026

TO: Clinical Department Chairs, Nurse Leaders, and Quality Improvement Committee

FROM: Eleanor Vance, FACHE, Chief Executive Officer

SUBJECT: Urgent Action Required: Trend in Catheter-Associated Urinary Tract Infections (CAUTIs)

Dear Executive Leadership and Clinical Team

I am writing to address a serious pat
unified attention. Over the past
untenable rise in Catheter-As
inpatient adult medical-su

As a non-profit comm
providing safe, comp
associated infectio
compromises pati
risks, and expose
under CMS Valu

Effective imme
collaboration w
comprehensive

1. **Re-evalu**
indication
2. **Maintenan**
catheter lin
3. **Staff Educatio**
insertion techniq

Our clinical teams perform exce
immediate, structured response. Pl

Results

- Attendance: 400+ nurses and allied health professionals

	Knowledge of the information or practices presented (% Substantial or Very Substantial pre/post)	Confidence in making decisions in my work related to the information and/or practices presented (%High or Very High pre/post)
Spotting Problems in the Wild	22.9%/62.9% (n=70)	24.3%/60.0% (n=70)
Navigating the depths	23.1%/76.8% (n=83)	24.4%/75.6% (n=83)

Results



What was most effective in this educational activity, and why?

Love the breakouts. Very hands on and loved sharing

The breakout sessions where we can apply the new tools and model with the given scenarios.

Break out activities which was helpful in learning the material

I really enjoyed walking through the fictitious scenarios to go through the EBP tools to make it tangible

The breakout sessions are valuable in the application of the new tools and model.

Limits

- Early implementation
- Measured perception, stated intent

Future plans:

- Measure sustained engagement and downstream impact
- Measure impact on EBP competencies

Conclusions

- To overcome the barriers to EBP such as lack of skills, or knowledge, nurses need engaging learning opportunities that foster skill development & clinical reasoning.
- AI helped create engaging learning environments capable of reaching diverse learner groups across healthcare.
- Using AI to develop these interactive courses allowed us to provide much more interesting content in significantly less time.