

Creating a Culture of Inquiry How to Make it Doable

Elizabeth Bridges PhD RN CCNS, FCCM, FAAN

Professor Emeritus – University of Washington



For you –
Is clinical inquiry
something to do
or a way of
being?



Culture of inquiry: the shared expectations, goals and practices, and structures woven through exemplary practice and professionalism that support and advance clinical inquiry

Clinical inquiry: The ongoing process of questioning and evaluating practice and providing informed practice; the creation of practice change through research, evidence-based practice and experiential learning (modified from AACN)

- Ongoing and iterative process of questioning and evaluating practice
- Providing care informed by the best available evidence
- Creating practice change through research and evidence-based practice
- Building capacity and expectation for nurses to actively lead and participate in clinical inquiry

Assumptions

- Inextricably woven through our patient/family care and professional practice
- Requires that all nurses in the organization have a leadership role
- Recognizes the various uses of research and evidence (instrumental, conceptual, symbolic)

Start with the End in Mind

What is the difference you want to make?





What difference has the availability of EBP tools and resources made for you or your organization?



Symbolic/Instrumental/Persuasive Use

- **Used evidence** to lobby for change or inform a specific action
- **Outcomes/Audit results**
- **Legitimize pre-existing views (±)**

Conceptual Use

- **Desire** to continue to consider improvements to the fundamental aspects of nursing care
- **Personal and professional developments**
- **Increased morale, sense of team** (from working together to learn more about evidence use or think about practice provision)
- Improvements to knowledge and **understanding** evidence for practice
- **Increased confidence** in accessing evidence for practice

Importance of Conceptual Use

mental use or outcomes. However, these conceptual uses clearly have a wider reach in the longer term. For some staff, the longer term was actually quite short, and they moved on quickly to use evidence to change practice; their confidence in understanding EBP led to them accessing evidence and translating this into change to practice in a short space of time. For others, this was a first ever opportunity to use evidence to lobby for change (persuasive or symbolic use). Or at least to begin the negotiations at team or organizational levels, which were a necessary first step to highlighting the need for a change to current service delivery modes or provision.

A Multidisciplinary Approach To A Backbreaking Problem In Interventional Cardiology

UW Medicine

UNIVERSITY OF WASHINGTON
MEDICAL CENTER

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¹University of Washington Medical Center

²St. John Medical Center

³Johns Hopkins University

University of Washington Medical Center, Seattle, Washington



Clinical Issue

- Percutaneous coronary interventional (PCI) procedures are expected to grow by 27% within 7 years
- Insufficient evidence supporting & defining optimal bedrest duration following PCI

WE KNOW THAT:

- Prolonged bedrest contributes to an increase in back pain and a decrease in patient satisfaction
- Shortened bedrest may increase a patient's risk of vascular complications

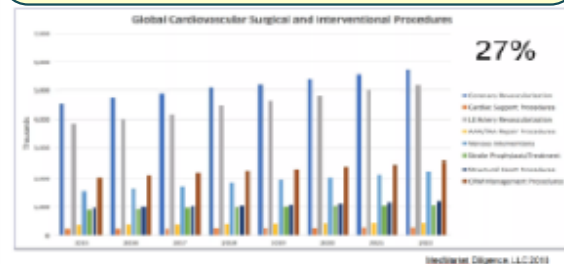


Figure 1. Global growth of cardiovascular procedures

Objectives

- To assess the effects of reducing bedrest duration after trans-femoral catheterization on pain, urinary retention, patient satisfaction, bleeding and hematoma incidence, post procedure opioid use, & patient satisfaction
- Create a standardized approach to bedrest duration following trans-femoral catheterization

Smart AIM

Reduce the amount of back pain associated with strict bedrest by 20% within 6 months of implementing a standard 2 hour bedrest period following trans-femoral catheterization for PCI.

Methods

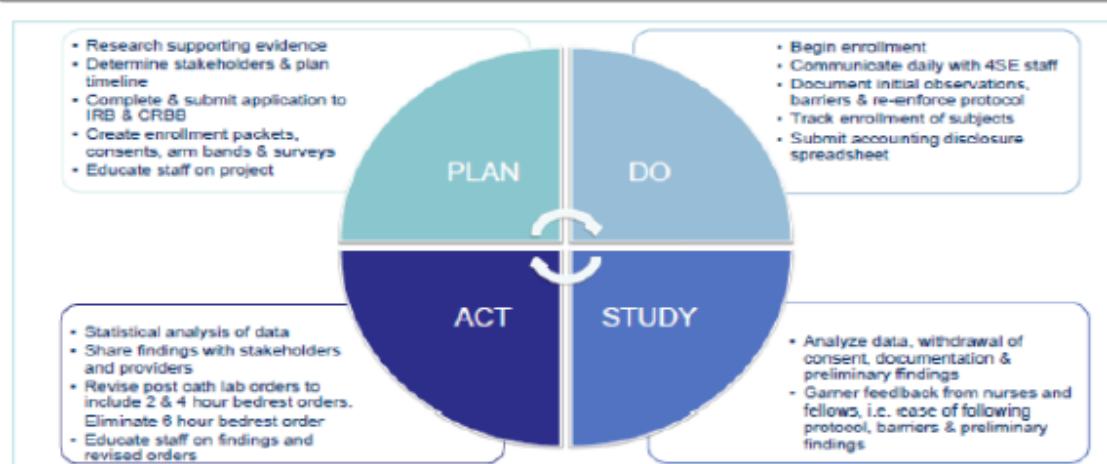


Figure 2. PDSA Cycle

Study Design

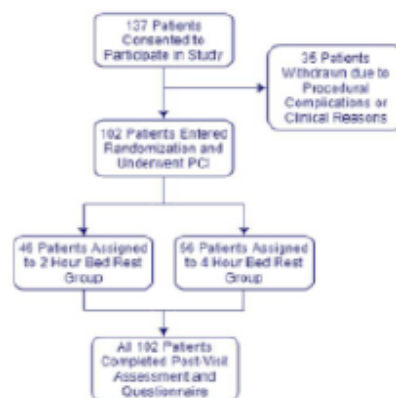


Figure 3. Randomized Bedrest Duration Study Design

Results

Table 1. Outcomes Comparison between Patients Undergoing 2 and 4 Hours Post-Catheterization Bedrest

	2 Hours Bedrest (n=46)	4 Hours Bedrest (n=56)	p
Backpain Rating during Bedrest (n=)			0.779
1	11 (23.9)	15 (27.0)	
2	8 (17.4)	8 (14.3)	
3	3 (7.0)	4 (7.1)	
4	7 (15.2)	7 (12.5)	
5	14 (30.4)	19 (33.9)	
Medicine Requested for Back pain (n=)	26 (56.5)	32 (57.1)	0.489
Back pain reduced after Bedrest (n=)	17 (37.0)	7 (12.5)	0.304
1	0 (0.0)	2 (3.6)	
2	4 (8.7)	2 (3.6)	
3	9 (20.0)	7 (12.5)	
4	9 (20.0)	7 (12.5)	
5	20 (43.3)	28 (50.0)	
Urinary Pain during Bedrest (n=)	20 (43.5)	19 (33.9)	0.157
1	20 (43.5)	19 (33.9)	
2	4 (8.7)	6 (10.7)	
3	3 (6.5)	19 (33.9)	
4	2 (4.3)	4 (7.1)	
5	9 (20.0)	9 (16.1)	
Bleed Reported Bleeding (n=)	4 (8.7)	12 (21.4)	0.066
Bleeding Reported after Bedrest (n=)	6 (13.0)	1 (1.8)	1

** Count and proportions reported are based on non-missing observations for each respective variable.

Conclusions

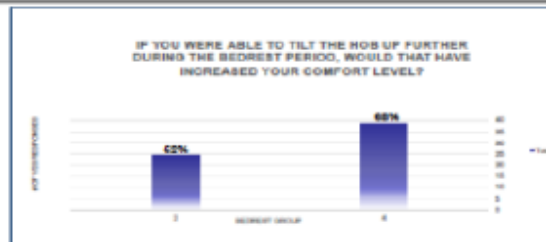


Figure 4. Patient survey question #9

- There are no statistical differences between the 2 and 4 hour bedrest groups (Table 1.)
- Patients do believe that if they could have their HOB up further, it would reduce the degree of back pain they experience (Figure 4.)
- Patients on the 2 hour bedrest period are not at greater risk for vascular complications as compared to the 4 hour bedrest group (Table 1.)
- Early mobilization after PCI is safe, decreases patients' pain after bedrest, improves patient satisfaction and does not increase risk of vascular complications
- The limitation of this study was insufficient time which contributed to inadequate sample size and generalizability

Acknowledgments

The authors would like to thank the University of Washington Medical Center and Seattle Children's Certificate in Patient Safety in Quality Program for their mentorship and guidance on this project. We would also like to thank those below:

- Emily Leibeskind, ARNP, Interventional Cardiology Nurse Practitioner
- Kenta Nakamura, MD, Interventional Cardiology Fellow
- Kate Kearny, MD, Interventional Cardiology Fellow
- Christina Tan, MD, Interventional Cardiology Fellow
- 4SE Nurses-Special Procedures Unit

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Purpose

- Participate in clinical research project for assessing shortened bedrest time on patients who have undergone percutaneous coronary intervention (PCI)
- Evaluate the bedside nursing perspective on study participation and effect on clinical practice

Relevance

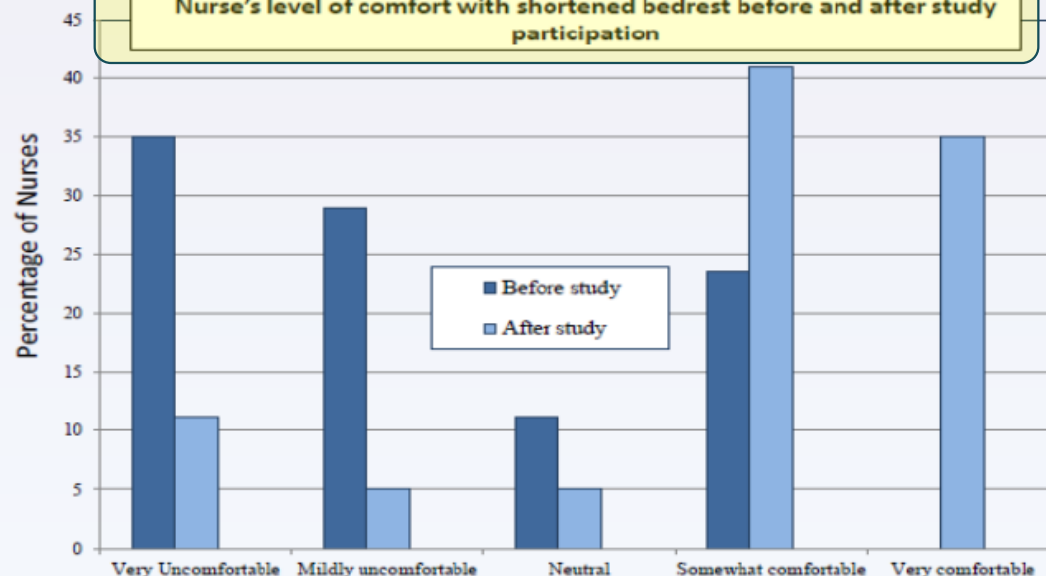
- Prior to this study, all patients post PCI were placed on 6 hour bedrest time
- Researchers proposed shortened bedrest times of 2 hours or 4 hours

Strategy and Implementation

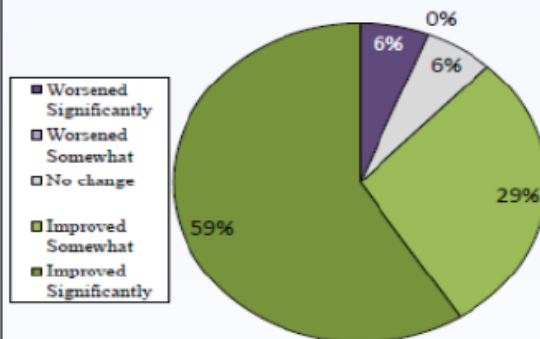
- Femoral arterial sheaths were removed by 4SE RNs
- 102 patients between September 2017 – April 2018 participated
- All patients were surveyed after bedrest and nurses documented all study factors in medical record for data abstraction
- Nurses were surveyed retrospectively on comfort level with 2 hour bedrest pre and post research participation and how the research impacted the RN-patient relationship

Results in Graphics

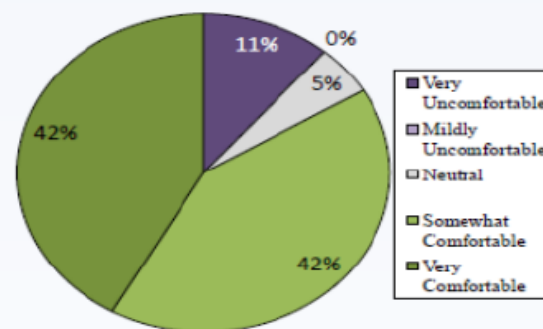
Nurse's level of comfort with shortened bedrest before and after study participation



How did shortened bedrest time impact the RN-patient relationship?



How comfortable are you participating in research now?



Evaluation

- Prior to the bedrest study, 64% of RNs felt uncomfortable with a 2 hour bedrest time
- Post bedrest study, 76% of RNs are comfortable with 2 hours bedrest time
- Patient participants in the 2 hour bedrest group reported less pain and an improved RN relationship
- Majority (88%) of RNs felt that the patient relationship was improved with 2 hour bedrest

Implications for Practice

- Shortened bedrest time improves RN-patient relationships
- Nurses are more comfortable with a 2 hour bedrest time
- 4SE RNs have more confidence to participate in future research studies

Limitations:

- Specific medical record documentation was not explicitly explained prior to beginning the study
- RN survey was retrospective

How confident are you in presenting your work?

How confident are you in engaging with a presenter?

1 = Not Confident 2 = Somewhat Confident; 3 = Confident; 4 = Very Confident

- Here is what (of problem)
- Here is what we (statement)
- Here (outcomes)
- Here is what we are going

2 min

POSTER S

Three main points

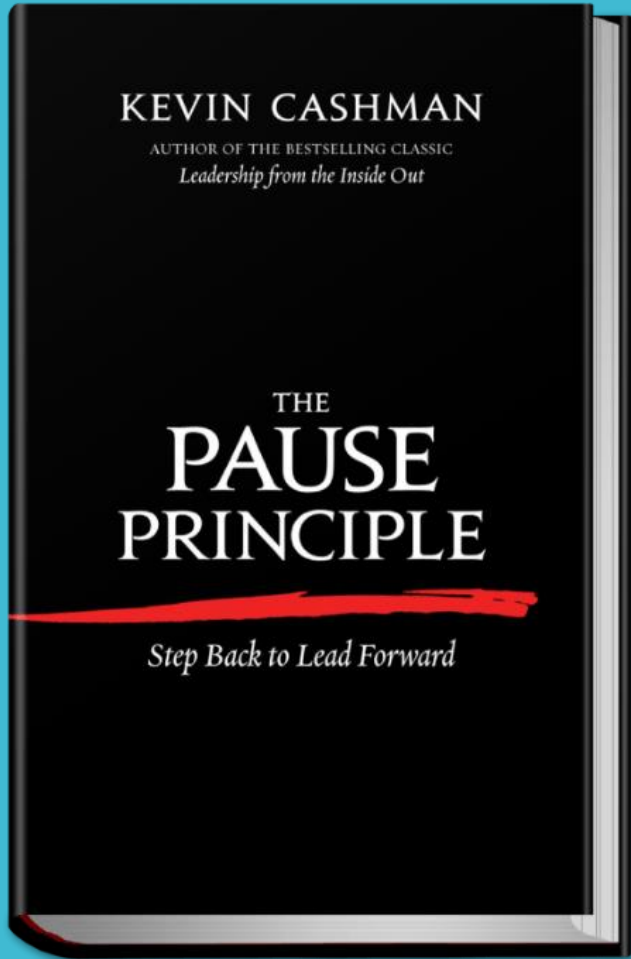
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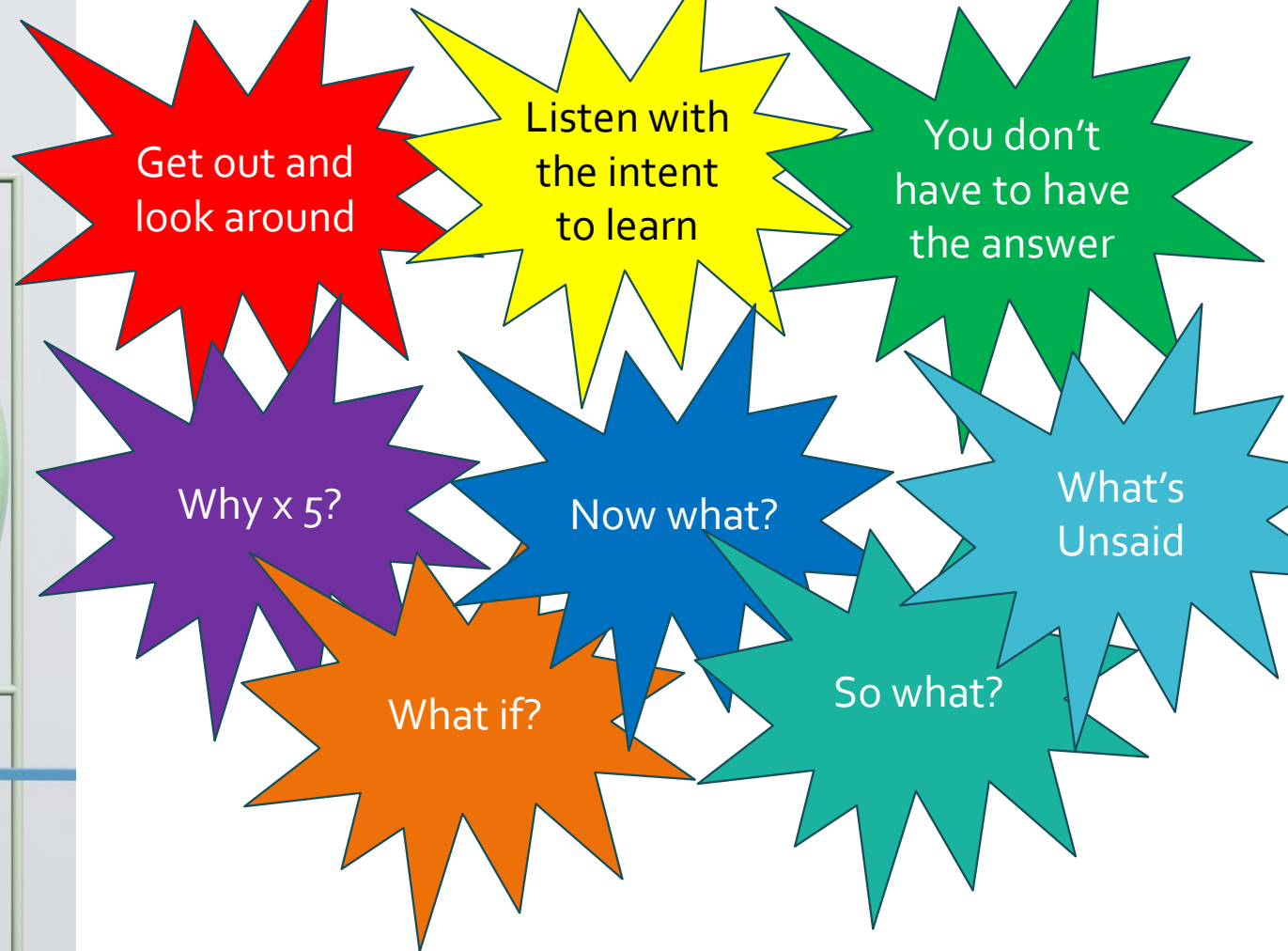
Contact
info

Tell me about your work
Listen to learn (not to answer)



Squint with your ears -Kevin Cashman

Listen with the
intent to
understand



Argue like your right – listen like your wrong

Make other people the smartest in the room
by asking good questions

Original Article

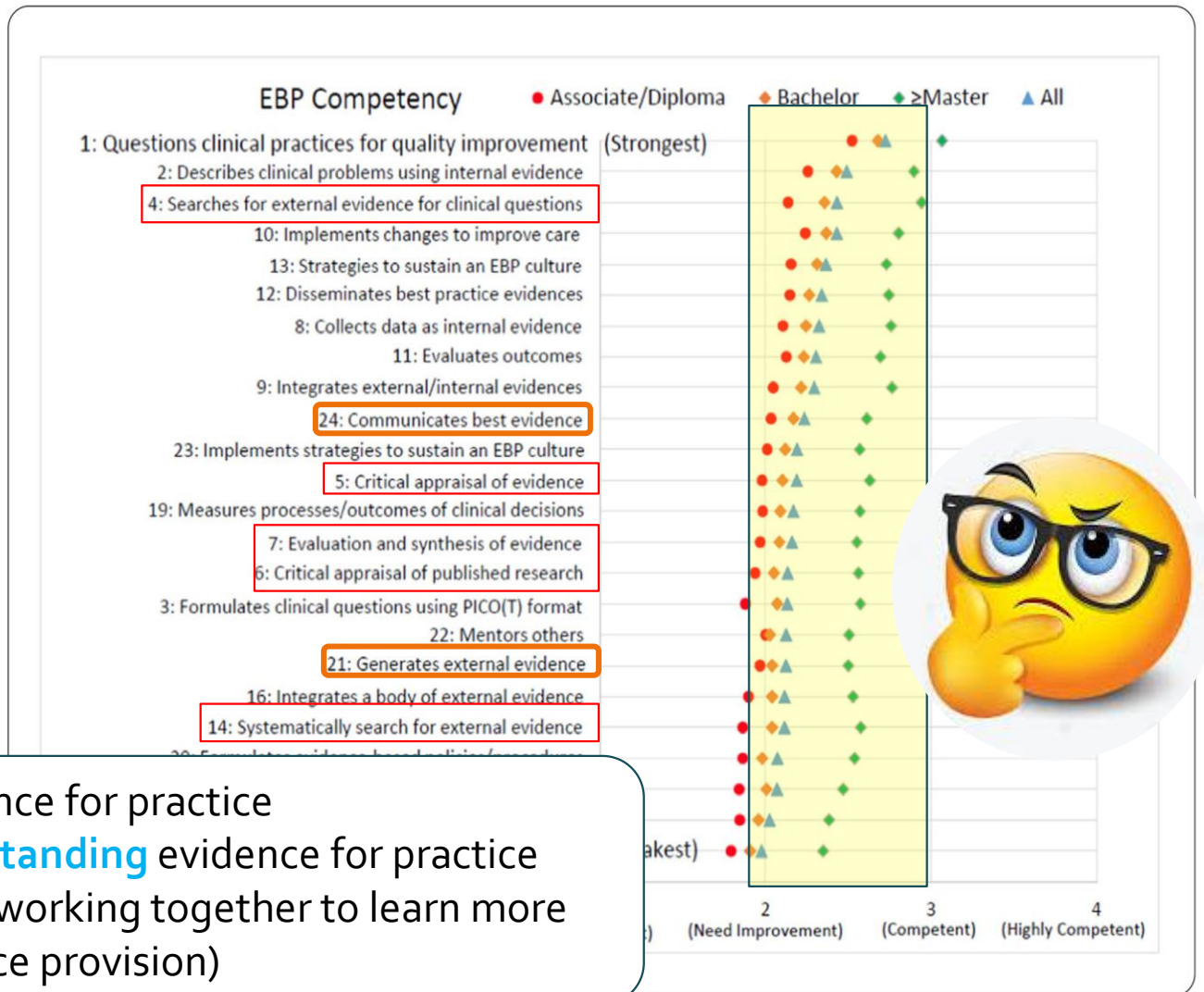
The First U.S. Study on Nurses' Evidence-Based Practice Competencies Indicates Major Deficits That Threaten Healthcare Quality, Safety, and Patient Outcomes

- ☐ EBP Knowledge
- ☐ EBP Beliefs
- ☐ Implementation
- ☐ Organizational Culture
- ☐ EBP Mentorship
- ☐ EBP competency (RN/APRN)

- Increased confidence in accessing evidence for practice
- Improvements to knowledge and understanding evidence for practice
- Increased morale, sense of team (from working together to learn more about evidence use or think about practice provision)

Conceptual Use

Symbolic/Instrumental/Persuasive Use



**Evidence-Based
Practice:
You must look at
the evidence**





Squirrel!!

Speed Dating

For research





5 SPEED DATING QUESTIONS for LITERATURE REVIEW

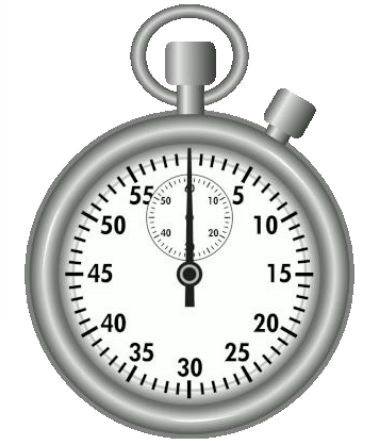
- **What was the issue?**
 - Do I see this in my practice?
- **Who did they study?**
 - Are the participants similar to my patients?
- **What did they do?**
 - Is it realistic or feasible for my setting?
- **What were the results?**
 - How were the outcomes measured?
 - Do the results matter to my patients?
- **Any concerns?**

PICO	Question	Where in Paper
Problem (Purpose)	Is this a problem I see in my practice	Abstract, end of introduction paragraph
Population (sample)	Does the study evaluate patients similar to my population? Who is included? Who is excluded?	Abstract, purpose statement, methods: inclusion/exclusion, results (demographics)
Intervention	What is the intervention – is it realistic or feasible in my setting Study design (observational, randomized)	Abstract, Methods
Comparison	What is the intervention being compared to – is this a reasonable comparison	Abstract, Methods
Outcomes/ Results	What did they look at? What did they find? Do the outcomes matter to my patient	Abstract, Results



Fast versus slow bandaid removal: a randomised trial

Jeremy S Furyk, Carl J O'Kane, Peter J Aitken, Colin J Banks and David A Kault



CHRISTMAS OFFERINGS

Fast versus slow bandaid removal: a randomised trial

Jeremy S Furyk, Carl J O'Kane, Peter J Aitken, Colin J Banks and David A Kault



Applying dressings to wounds is a common practice throughout the world, both in and out of hospitals. At times, removing such dressings can be more painful than the wound itself.¹ Research on dressing removal has often focused on expensive new products² and, although speed of dressing removal has been controlled for in some studies³ (implying that speed is a factor), we are not aware of any research directed specifically at different speeds of dressing removal. There are Internet sites addressing how to reduce the pain associated with removal of certain brands of dressings, such as Band-Aid (Johnson & Johnson, New Brunswick, NJ, USA) (eg, <http://www.wikihow.com/Remove-a-Band-Aid>); however, there is no consensus on the issue of speed.

The pain of dressing removal is thought to be related to the mechanical stripping of the stratum corneum from the underlying epidermal and dermal cells.³ However, the perception of pain is complex—it is a multifactorial experience influenced by culture, previous pain events, beliefs, mood and ability to cope.⁴ Simple dressings are known by many different names, such as sticking plasters. Band-Aid is one of the most popular and best-selling brands of simple dressings worldwide; it is used so frequently by patients in health care settings that it has been adopted for general use.

The two most common methods of bandaid removal are slow but steady and fast bandaid removal. The slow technique involves the removal of the dressing by slowly peeling it away from the skin, exposing the individual to the noxious stimulus. With the fast technique, the dressing is removed by pulling it away from the skin, exposing the individual to the noxious stimulus. We aimed to compare the two methods of bandaid removal, fast or slow, to determine which method of removal, fast or slow, causes less pain.

METHODS

The study was a prospective, randomised, crossover trial comparing FBAR with SBAR in healthy volunteers. It was conducted in August 2009 at James Cook University, Townsville, Queensland.

ABSTRACT

Objective: To determine whether slow or fast bandaid removal is less painful.

Design, setting and participants: A prospective, randomised, crossover trial carried out at James Cook University, Townsville. Participants were healthy young adults from Years 2 and 3 of the James Cook University medical school program.

Interventions: Medium-sized bandaids were applied bilaterally in three standard locations and removed using slow and fast techniques.

Main outcome measures: Pain scores were assessed using an 11-point verbal pain scale.

Results: 65 participants were included in the study. The overall mean pain score for fast bandaid removal was 0.92 and for slow bandaid removal was 1.58. This represented a highly significant difference of 0.66 ($P < 0.001$).

Conclusion: In young healthy volunteers, fast bandaid removal caused less pain than slow bandaid removal.

The study participants were a convenience sample of healthy volunteers from the first and third years of a 6-year, undergraduate medical program at James Cook University. Inclusion criteria were age greater than 18 years and ability to provide informed consent. Exclusion criteria included documented or suspected allergy to adhesive dressings, and chronic pain or anxiety disorder. Written informed consent was obtained from all participants. The participants were not coerced, and the study was approved by the local research ethics committee.

The primary outcome was pain score, measured using an 11-point verbal pain scale. Secondary outcomes included time to removal, time to removal of the dressing, and time to removal of the dressing.

The study was a prospective, randomised, crossover trial comparing FBAR with SBAR in healthy volunteers. It was conducted in August 2009 at James Cook University, Townsville, Queensland.

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CHRISTMAS OFFERINGS

pain scores for dressing removal would be at the lower end of the pain scale and, although the level of clinical significance in this range is not known, we assumed a change of 0.5 to be clinically significant.

ple consisted of young healthy adults; therefore our results may not be applicable to other age groups such as children.

tively associated with pain scores. Further types of further issues, still assist in adopting a slow.

wikiHow
to do anything

How to Remove a Band Aid

Author Info | 23 References

Updated: March 29, 2019

Ouch! Removing a band-aid can hurt. Each person experiences pain differently and there is no one-size-fits-all approach. How much hair is in the area, type of band-aid, how long it's been on your skin, and how healed your wound is can all affect how it feels to pull it off. All of these methods can be achieved with common household items and a little bit of patience.

Explore this Article

Ripping It Off Quickly
Peeling It Off Slowly
Peeling It Off Parallel to Your Skin
Show 3 more...
Article Summary
Related Articles

Results

Our results show that FBAR was less painful than SBAR. This is consistent with the preconceptions of most of our sample. A high body hair score was, not surprisingly, associated with higher pain scores, and it seemed that preconceptions also had an appreciable effect. Several other aspects of our data may require further investigation. The pain experience is a complex and incompletely understood process that incorporates many aspects of patients' social and cultural beliefs, as well as previous experiences.⁴ Our observation that preconceptions were associated with pain scores should not therefore be surprising.

The association between increasing age and higher pain scores is interesting, although this did not reach statistical significance. Our sam-

ple consisted of young healthy adults; therefore our results may not be applicable to other age groups such as children.

In a sample of young healthy volunteers, we found FBAR caused less pain than SBAR. A high body hair score and preconception that SBAR would be more painful were also posi-

144-157.
2 Dykes P, Hoggie R. The link between the peel force of adhesive dressings and subjective discomfort in volunteer subjects. *J Wound Care* 2003; 12:262-262.
3 Dykes P, Hoggie R, Hill S. Effects of adhesive dressings on the stratum corneum of the skin. *J Wound Care* 2001; 10:7-10.
4 Australian and New Zealand College of Anaesthetists and Faculty of Pain Medicine. *Acute pain management: scientific evidence* (second edition). Melbourne: ANZCA; 2005. <http://www.rnzc.org.au/files/rnzc/files/publications/synopses/cp104.pdf> (accessed Aug 2009).
5 World Medical Association Declaration of Helsinki — Ethical Principles for Medical Research Involving Human Subjects. <http://www.wma.net/en/30publications/10policies/b3/index.html> (accessed Sep 2008).
6 Holdgate A, Adu S, Craig J, Thompson J. Comparison of a verbal numeric rating scale with the visual analogue scale for the measurement of acute pain. *Emerg Med (Fremantle)* 2003; 15:441-446.
(Received 3 Oct 2009; accepted 19 Oct 2009)

Study Info	Purpose	Sample	Intervention	Outcomes (What/How measured)	Results	Feasibility /use

Evaluation
Synthesis

Critical Appraisal



Why science teachers
should not be given
playground duty.

× AI Assistant

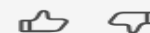
1 request remaining

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Overview

The document reports on a randomized trial comparing the pain levels associated with fast versus slow removal of Band-Aids, concluding that fast removal is less painful.

 Copy



What was the main objective of the study?

The main objective of the study was to determine whether slow or fast bandaid removal is less painful.

¹

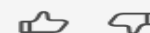
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Who were the participants in the study?

The participants in the study were healthy volunteers from Years 2 and 3 of the James Cook University medical school program. ¹ They were a convenience sample, with inclusion criteria being age greater than 18 years and the ability to provide informed consent. ² Exclusion criteria included documented or suspected allergy to adhesive dressings, and chronic pain or anxiety disorder. ³

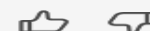
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How many participants were included in the study?

Sixty-five participants were included in the study. ¹

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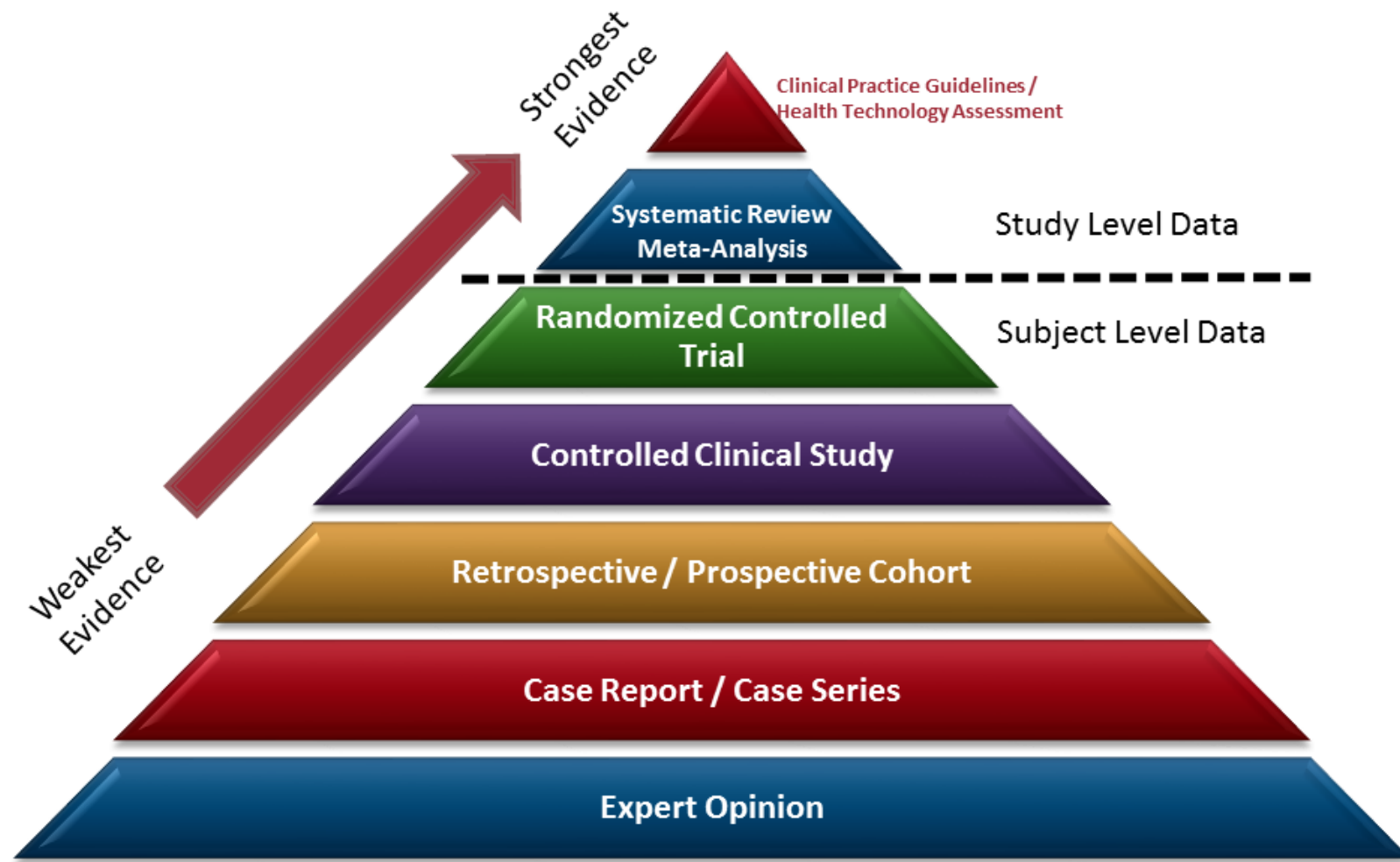


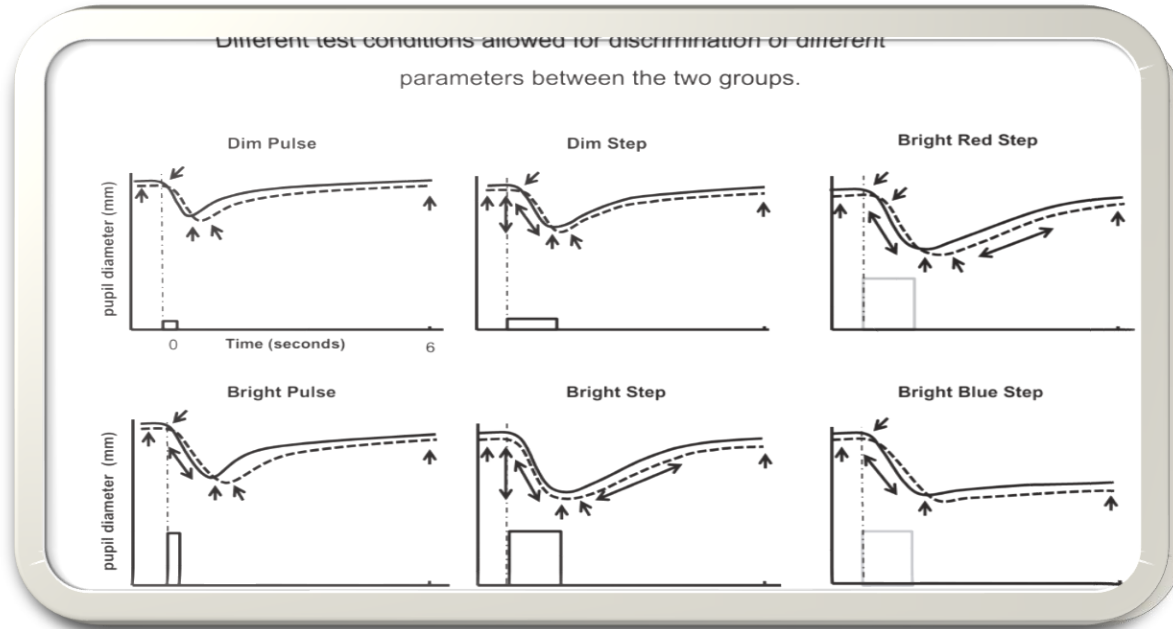
↪ What is the mean age of participants?



Critical Appraisal of Evidence

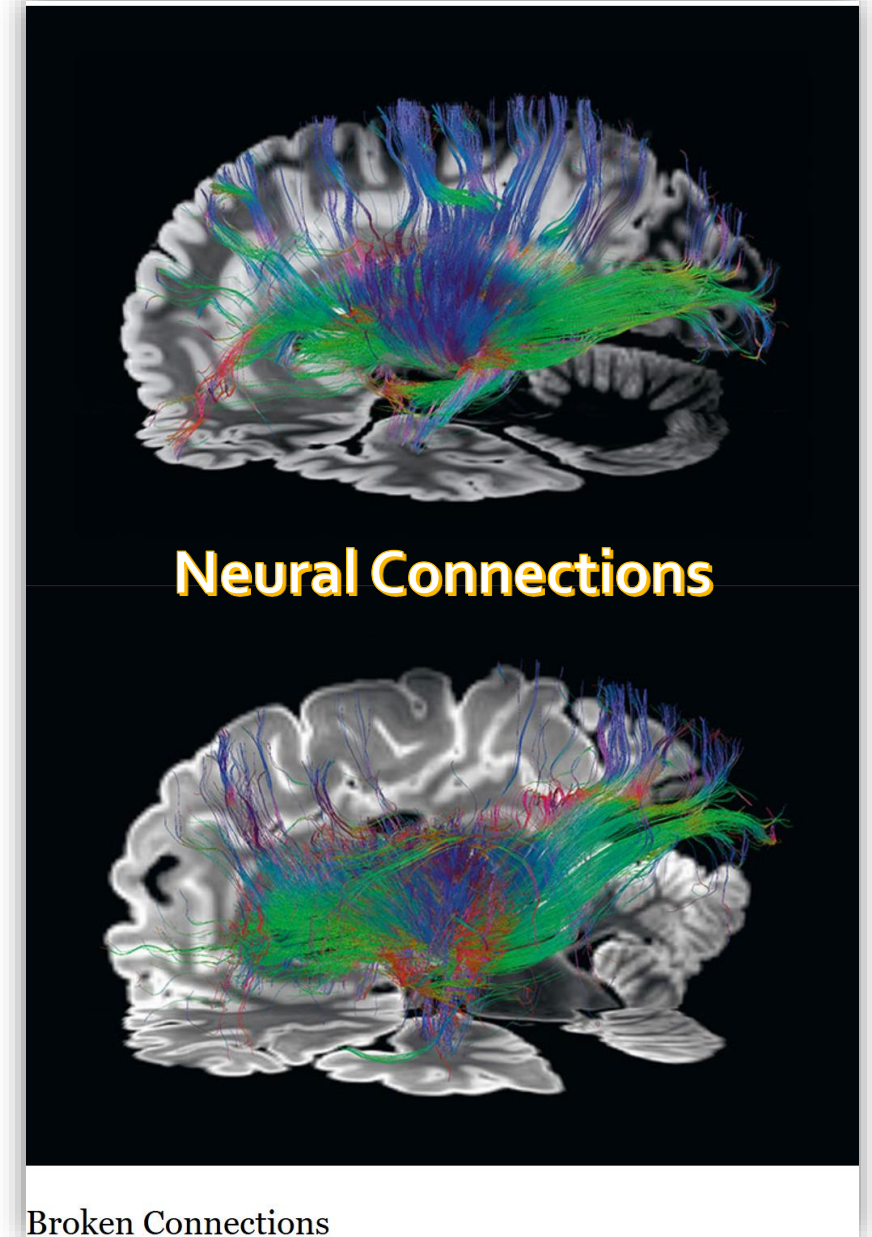






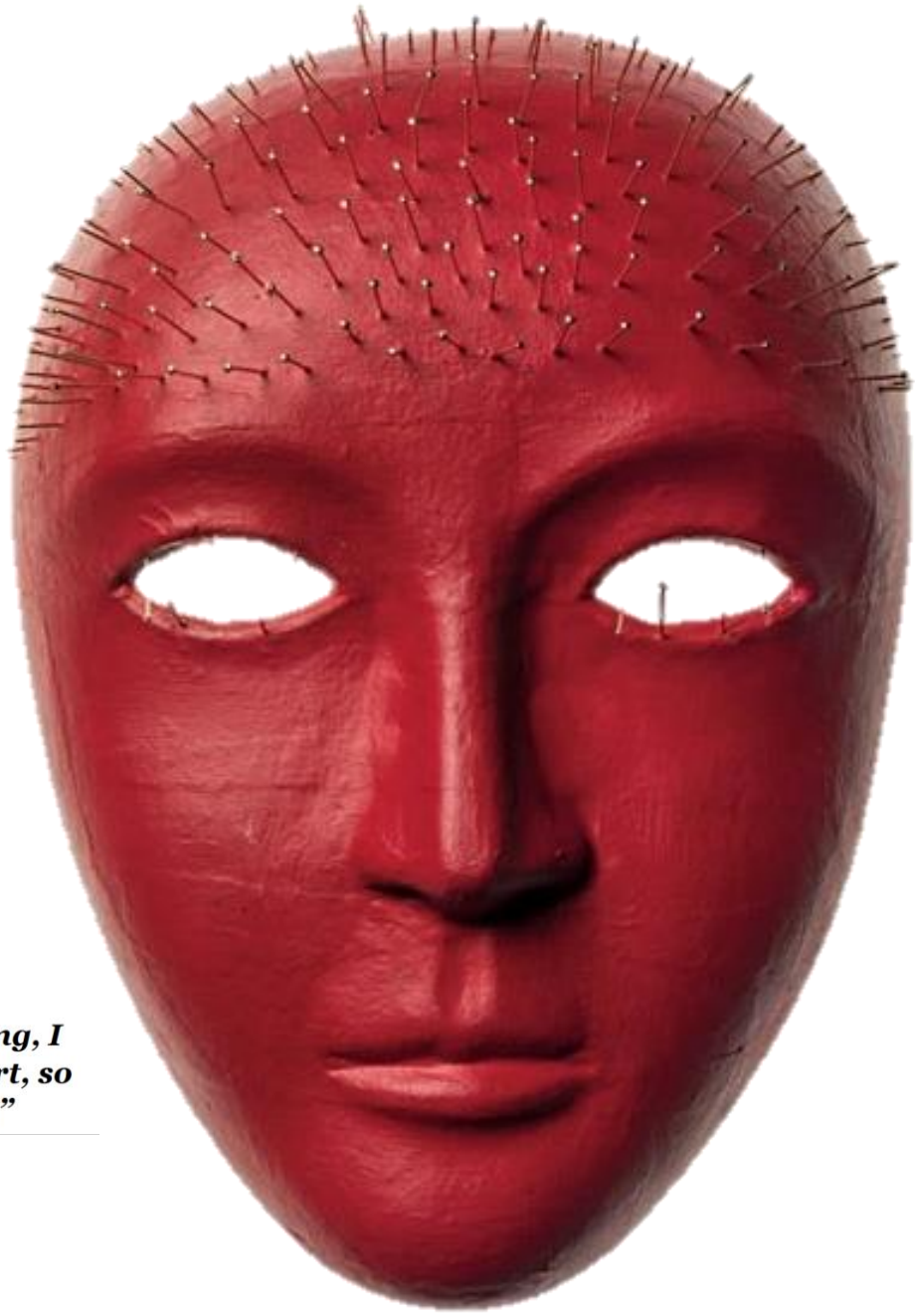
Smartphone Based Pupillometry Using Machine Learning to Detect Concussions

<https://www.washington.edu/news/2017/09/06/pupilscreen-aims-to-allow-parents-coaches-medics-to-detect-concussion-brain-injuries-with-a-smartphone/>



<https://www.nationalgeographic.com/healing-soldiers/blast-force.html>

Behind the Mask



“Sometimes you find yourself saying, I wish ... I would have lost a body part, so people will see—so they’ll get it.”



ORIGINALLY PUBLISHED JULY-AUGUST 2023

How Generative AI Can Augment Human Creativity

Use it to promote divergent thinking.

→ by TOJIN T. EAPEN, DANIEL J. FINKENSTADT, JOSH FOLK, and LOKESH VENKATASWAMY



Approach Services Speaking Stories Podcasts About Contact

Deliberate Innovation - Understanding Thought

How to Use Generative AI as Your Questionstorming Thought Partner

See Yourself | June 15, 2023 | 7 min Read



Editorial



The Integration of Artificial Intelligence Into Critical Care Nursing

6 CriticalCareNurse Vol 45, No. 1, FEBRUARY 2025

Guest Editorial

Integrating Artificial Intelligence Into Critical Care Nursing: Next Steps

Carl Goforth, PhD, RN, CCRN
Jenny Alderden, PhD, APRN, CCRN, CCSN

8 CriticalCareNurse Vol 45, No. 1, FEBRUARY 2025



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Linda Harrington, PhD, DNP,
RN-BC, CPHQ, CENP, FHIMSS, FAMIA
Department Editor

ChatGPT Is Trending: Trust but Verify

Linda Harrington, PhD, DNP, RN-BC, CPHQ, CENP, FHIMSS, FAMIA



...the world re

“Hospital policies should emphasize that AI is designed to augment, not replace, the clinical judgment and critical thinking that critical care nurses bring to the bedside.”

...be augmented –
it cannot be replaced

nature

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The number of articles retracted in 2023 is only the tip of the iceberg

By [Richard Van Noorden](#)

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NEWS FEATURE | 19 February 2025

Exclusive: These universities have the most retracted scientific articles

A first-of-its-kind analysis

By [Richard Van Noorden](#)

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COMMENT | 07 January 2020

Check for publication integrity before misconduct

A tool that focuses on papers – not researcher behaviour – can help readers, editors and institutions assess which publications to trust.

By [Andrew Grey](#), [Mark J. Bolland](#), [Alison Avenell](#), [Andrew A. Klein](#) & [C. K. Gunsalus](#)

New Subject



"We re... work... scientific... scientific... know..."

- Get your evidence from legitimate sources (e.g., professional organizations, PubMed, CINAHL)
- Extraordinary claims require extraordinary evidence
- Correlation is not causation
- Randomization matters
- RCTs are not the only valid evidence – but be wary of “expert opinion”
- Peer review matters
- Number of similar studies matters
- Chat GPT is not a reference

Your homework for today

- Be a part of the forest
- Squint with your ears
- Listen like you were wrong
- Find a book at an old bookstore (especially if it has a cat)
- Make the world's best peanut butter & jelly sandwich
- Remember the mask
- Watch Elf but beware of sharks



3 million tweets!

SOCIAL SELECTION

Popular topics on social media

Spoof kissing paper sparks debate

A satirical study showing that a mother's kisses didn't help injured children to feel better left several clues that it was fake. The funder was Proctor and Johnson, a made-up medical company, and one of the references was entitled, "So what the hell is going on here?". The paper, describing a fictional randomized controlled trial (RCT) of mothers kissing their toddlers, was designed to illustrate the limitations of evidence-based medicine, which uses data from such clinical trials to direct the practice of medicine. Many people who shared the article on Twitter played along with it. Angela Smith, a urologist at the University of North Carolina School of Medicine at Chapel Hill, tweeted: "Maternal kisses apparently ineffective at alleviating boo-boos in RCT-our household now switching to 'blowing on it.'" But some commenters said that the article, which the editor of the *Journal of Evaluation*

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For more on popular papers:
go.nature.com/e6rkaj

in *Clinical Practice* knowingly published in his journal, could be misleading and needs to be clearly labelled as satirical.
J. Eval. Clin. Pract. <http://dx.doi.org/10.1111/jep.12508> (2015)

<https://www.nature.com/articles/529131f>



Journal of **Evaluation in Clinical Practice**
International Journal of Public Health Policy and Health Services Research

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Maternal kisses are not effective in alleviating minor childhood injuries (boo-boos): a randomized, controlled and blinded study

The Study of Maternal and Child Kissing (SMACK) Working Group

