DISSEMINATING YOUR EDUCATIONAL INNOVATIONS THROUGH SCHOLARSHIP
Grace C. Huang, MD

OBJECTIVES
By the end of the session, participants will be able to:
• Describe principles of educational scholarship
• Characterize features of educational innovations
• List strategies for maximizing publication potential

“WHAT BRINGS YOU HERE TODAY?”
1. I am curious about what educational scholarship is.
2. I’ve submitted to educational journals before without much success.
3. I’m pretty comfortable with publishing in education but looking to learn more.
4. I could give this talk for you…please step aside.

WHY YOU TEACH
Learners Organization of knowledge CO-AUTHORS ANALYSIS SYNTHESIS PERSUASION DISCOVERY LEARNING IMPACT CONTINUOUS DISSEMINATION

New knowledge
Discovery
Integration
Application
multi-disciplinary work
transfer of theory to practice
dissemination of knowledge

New process
Scholarship of discovery Scholarship of application Scholarship of teaching
BREADTH OF EDUCATIONAL SCHOLARSHIP

- Educational research
- Educational innovations
- Academic writing about education

WRITING PERSPECTIVE PIECES IN EDUCATION

- Articulation of the educational problem
- Analysis of solutions (with evidence)
- (Visual framework)
- Call to action

PRACTICAL GUIDES

- Skill relatable to educators and clinician-educators
- Opportunity to relay experience >> scholarly expertise
- Actionable with real-life examples and metaphors

Practical guides in medical education

Personal narratives
PERSONAL NARRATIVES

- Person-centered
- Unique experience with generalizable elements
- Story arc: beginning, central tension, and resolution

Infographics

Literature reviews

INNOVATION IS PRIORITIZED IN EDUCATION

BIOMEDICAL PARADIGM

- Hypothesis
- Investigation
- Evidence

HEALTH PROFESSIONS EDUCATION

- Theory
- Implementation action
- Scalability

Educational innovations
1. Introducing feedback Fridays to an internal medicine residency and assessing self-reported frequency of receiving feedback
2. Creating a debiasing checklist to be used on ICU rounds
3. Developing an anti-racism curriculum for dental students

Argument for novelty
- Articulate the problem
- Depict work as early stage
- Highlight area of novelty
- Provide conceptual framework

Implementation
- Describe process
- Describe development

Evaluation
- Evaluate innovation
- Include data/outcomes

Reflection
- Describe lessons learned
- Discuss sustainability
- Discuss transferability
- Discuss implications

LITERATURE GROWTH CURVE

MORE MANUSCRIPT TYPES THAN EVER BEFORE

Clinical Toolbox
- Rip-outs
- New Ideas
- Innovation reports
- AM Last Page
- Cross-cutting Edge
- Groundwork
- How I do it
- Short communications
- Educational case reports
- Eye Openers
- When I say...
- Really Good Stuff
- Failures
“NOT THIS, BUT THAT”

One that is an example of fantastic work that is not easily published

One that has the highest promise as an educational innovation

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<th>Manuscript type by word count</th>
<th>&lt;500</th>
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**Medical education journals**

Academic Med
JGME
Med Educ
Med Teach
Teach Learn Med
Perform Med Educ
BMC Med Educ
Med Educ Online
Clin Teacher
Med Sci Educator
MedEdPORTAL

**QI journals**

BMJ Qual Saf
BMJ Open Saf
Am J Med Qual

**Clinical journals**

JGH
JAMA
Chao
JIM
JAGS

**Simulation journals**

Sim Healthc
BMJ Sim

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**Educational research**

Adv Health Sci Educ
Grad & Health Prof

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**WHAT MANUSCRIPT TYPE MIGHT YOU TACKLE NEXT?**

1. BRIEF RESEARCH REPORT
2. INNOVATION REPORT
3. PERSPECTIVE
4. NARRATIVE
5. LITERATURE REVIEW
6. INFOGRAPHIC

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**FEATURES OF RIGOROUS EDUCATIONAL RESEARCH**

- Significant outcomes
- Multi-centered
- Psychometric
- Rigorously controlled
- Used research reporting checklists
- Based on conceptual frameworks
A FEW EDUCATIONAL THEORIES TO CHOOSE FROM...

- Schon’s reflection theory
- Bandura’s social learning theory
- Kolb’s experiential learning theory
- Kern’s curriculum development cycle
- System 1 and 2 thinking
- Situated learning theory
- Principles of deliberate practice
- Behaviorism

THEORY IS THE GUIDE TO EDUCATIONAL DESIGN

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<th>PRINCIPLES OF DELIBERATE PRACTICE</th>
<th>SOCIAL LEARNING THEORY</th>
<th>BEHAVIORISM</th>
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<td>Observation</td>
<td>Cause and effect</td>
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<tr>
<td>Feedback in the moment</td>
<td>Initiation</td>
<td>Conditioning</td>
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Instructional approach
- Direct observation, checklists, feedback and coaching
- Actual videos of poor performance and exemplar, peer recognition
- EHR alerts, root cause analyses of handoff errors, M&M conferences

TAKING YOUR TEACHING TO THE NEXT LEVEL

Teaching ➔ Scholarly teaching ➔ Scholarship of teaching & learning

Scholarly teaching

- Substrate for learning
- Improve writing skills
- Gain expertise
- Preview on innovation
- Insights on editorial standards
- Editorial opportunities

Dissemination opportunities
- Publication
- Conference presentation
- Social media
- Infographic
- Multi-site collaboration
- Conference chairmanship
- Plenary talk
- Digital media
- Poster presentation

PAPERS ➔ PRODUCTS

Scholarship
- Helps promotion
- Builds academic credibility
- Builds reputation
- Extends impact
- Offers collaboration

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