

# Turning Education into Scholarship: Seeking Credit for What You Are Already Doing

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# Objectives

- Articulate the rationale for pursuing scholarship in your work as educators and program directors
- Delineate the major steps of developing an education scholarly project
- Identify the broad opportunities for scholarly activity

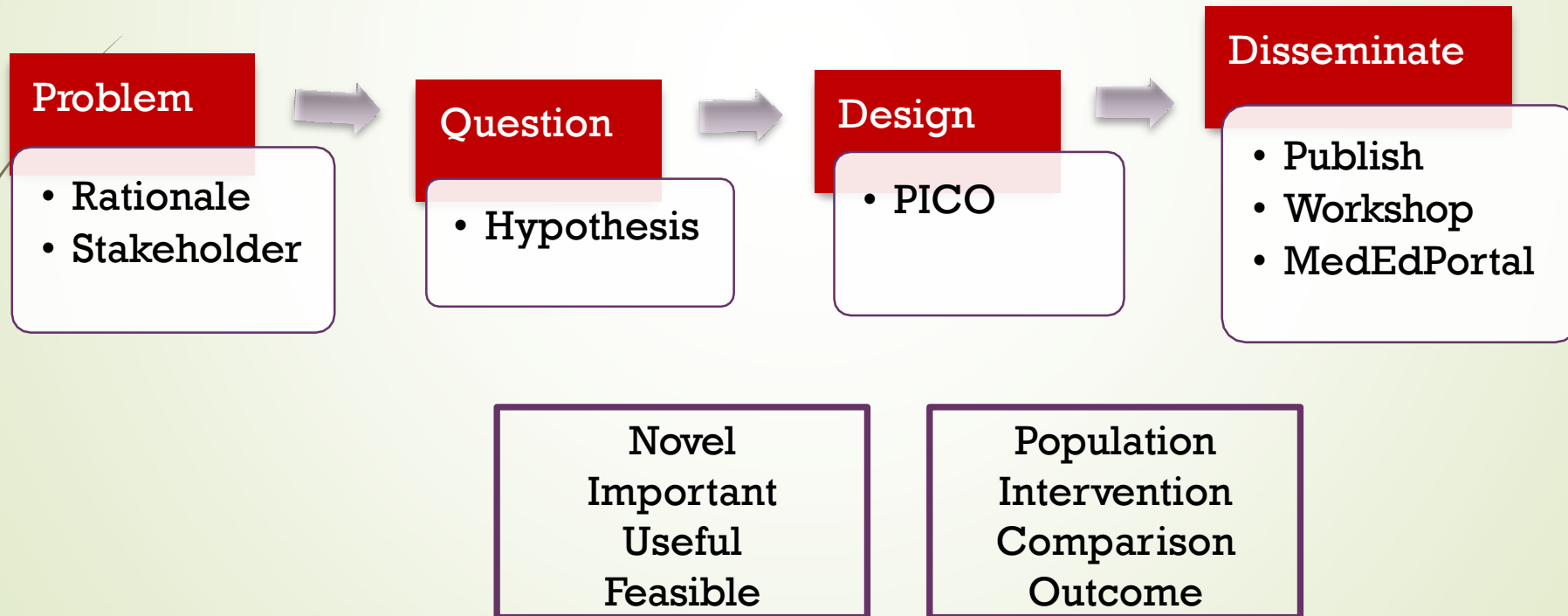
# Nothing Worth Doing is Easy!

- Small sample sizes
- Comparison groups are challenging
  - Placebo not usually possible
- Participants learn over time no matter what we do
- Time between the learning and the expected outcome may be long
- Research participation fatigue (eg: surveys)

# Committing to Scholarship

- Practice evidence-based education
  - Requires educators to share and disseminate best work
  - Similar standards as we expect in clinical practice
- Delivers higher quality to our learners
- Measure outcomes of our efforts
  - Justify resources needed for our programs
  - Advance our careers

# + Steps in Designing a Scholarly Project in Medical Education



# Focus on Outcome Measures

- Sine qua non of scholarship....don't skip it!
- By what metric do you want to determine the outcome of your intervention?
- A key issue requiring significant thought BEFORE the work begins
- Need to have a coherent reason for your choice
  - Length
  - Complexity
  - Sensitivity and specificity
  - Reliability and validity
  - Sample size
  - Match between program objectives and the instrument

# Types of Outcome Measures

- Qualitative
  - Attitudes
  - Themes
  - Dynamics
  - Relationships
  - Complexity

- Quantitative
  - Score
    - SITE
    - Certifying exam
  - Performance metric
    - Medical records
  - Surveys
    - ACGME
  - Ratings or milestones
    - Self, Peer, Supervisor
    - 360 degree evaluations

# IRB

- Do not omit this step!
  - Commonly overlooked
  - Limits publication
  - Ethical ramifications
- Must leave time for this step
- Education projects are often deemed exempt from full review
  - Determination of exemption comes from the IRB, not the investigator!



# IRB

- Research conducted in established educational settings, involving normal educational practices
  - Eg: research on effectiveness or comparing instructional techniques, curricula
- Research involving the use of educational tests, survey procedures, interviews or observation of public behavior UNLESS
  - Subject could be at risk
  - Confidentiality cannot be maintained
- Research involving the collection or study of existing data, documents, records without subject identification

# Exercise 1

- Each participant completes table about most recent experience with medical education scholarship
- What went well?
- Obstacles or challenges encountered?
- Lessons learned?
- Pair-share

# Exercise 2

- Case based exercise
  - Section 2a: brainstorm research questions
  - Section 2B: outcome measures



# Scholarly Activity

- Basic and clinical research
- \*\*\*Need to have a broader interpretation\*\*\*
- Think in terms of the activities that you are already involved in daily



# Acknowledge

- What you do is important (and scholarly)
  - Clinical
  - Teaching
  - Curriculum Development
  - Faculty Development
  - Mentoring
  - Health Policy/ Advocacy
  - Quality Improvement\*
  - Research\*\*\*
- Often the focus is on formal research, and more recently include QI, but really all of your activities could be used to demonstrate scholarly activity.
- Many of us struggle with turning our educational work into meaningful scholarship

# Boyer Model of Scholarship

- More comprehensive definition of scholarship and research:

1. **Discovery**- traditional research, original research that advances knowledge

- Publishing in peer-reviewed forums

2. **Integration**-synthesis of information across disciplines, across topics within a discipline, or across time

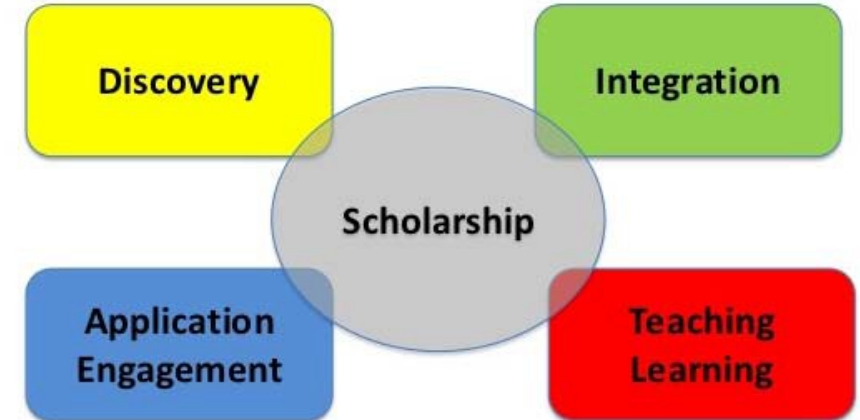
- Literature Review Article/ Textbook Chapters

3. **Application/Engagement**- the rigor and application of disciplinary expertise with results that can be shared with and/or evaluated by peers

- Leadership roles in professional organization

4. **Teaching and Learning**- requires a format that will allow public sharing and the opportunity for application and evaluation by others.

- Developing and testing teaching materials.  
Creating and implementing an assessment system



# Requirements:

- Institutional promotion requirements
- ACGME faculty scholarly activity requirements
- Use these as a framework to plan and complete scholarly activities that will meet these requirements.

Faculty Scholarly Activity							
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Faculty Member	PMID	Conference Presentations	Other Presentations	Chapters Textbooks	Grant Leadership	Leadership or Peer-Review Role	Teaching Formal Courses



# Types of Scholarly Activities

- Quantitative Research
  - Review Article
  - Qualitative Research
  - Case Reports/ Case Series
  - Quality Improvement Projects
  - Curriculum Development
  - Creating assessment tools
- **Look for opportunities:**
    - Before implementing a new program or curriculum discuss what steps should be completed to ensure you can make this meaningful scholarship
    - When presenting an abstract or poster, plan the next step to submit manuscript



# Resources for your project

## ➤ Personal

- Make this a priority!
- Focus on what you are passionate about, daily work activities, and fulfills ACGME and promotion requirements

## ➤ Time

- Put this in your calendar. Even short periods of time will make a difference
- How can you use what you are already doing, or minimal additional work instead of starting a completely separate project?

## ➤ Team

- Mentor, working group (assignment accountability), this can be broad
- Division, Department, Institution

## ➤ Project Specific Needs

- Financial, SIM Center, Survey Methodologist



# National Resources

- Provides platforms, support and opportunities for medical education scholarship:
  - APPD
  - Journals
  - MEDEdPortal
  - Conferences

# APPD



## Association of Pediatric Program Directors

"Innovation, Collaboration, Communication, Scholarship"

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#### What's New in Share Warehouse

A Novel Approach to Resident Scheduling in the Era of Duty Hour Guidelines  
Eyal Ben-Isaac  
Children's Hospital of Los Angeles  
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The Assessment and Plan: An Intensive «How to» Workshop Series for Interns  
Ariel S. Winn  
Boston Children's Hospital  
07/23/2017

Motivating Factors for Pediatric Residents that Lead to Research Participation and Scholarly Production  
Justine Englanoff  
Children's Hospital of Los Angeles



# LEARN

LONGITUDINAL EDUCATIONAL ASSESSMENT RESEARCH NETWORK



# LEAD

LEADERSHIP IN EDUCATIONAL  
ACADEMIC DEVELOPMENT



# SPIN


# Additional Opportunities

## Journals



## Conferences

- Abstracts/Posters/Presentations
- APPD
- PAS
- Society Meetings
  - (not just your own)
- Institution Research Day



# MedEdPORTAL- Association of American Medical Colleges (AAMC)

- an open-access journal of teaching and learning resources in the health professions
- publish teaching or learning modules that have been implemented and evaluated.
  - Review publications (look up a topic you are working on right now)
  - Workshops, simulations, curriculum accompanied with facilitator's guides and worksheets.
- generalizable teaching or assessment materials with the aim of helping to improve patient care.





# To Do:

- Have a broad concept of scholarly activities
- Use what you are already doing
- Set clear expectations and goals
- Have a system to write down research ideas
  - Journal Club
  - Program Evaluation
- Look for Opportunities
- Expect some challenges
- **Celebrate your successes!**



# Exercise 3

- After today's discussion identify a project that will translate your educational work into meaningful scholarship
- Resources
  - What resources do you already have?
  - What resources do you still need to complete this project?
- What is your goal?
  - Case report, workshop or poster presentation, finalize a curriculum
- Identify next steps to get your project moving forward
- Timeline



# + Closing Comments

- Expect there to be complications and “bumps in the road”
- Adapt to them!
- Don't let perfect be enemy of the good
- Be patient and persistent
- Good luck!





Thank you