

# Educational Scholarship Resources

Assembled Aug 2015

[https://www.academicpediatrics.org/education/educator\\_portfolio\\_template.cfm](https://www.academicpediatrics.org/education/educator_portfolio_template.cfm)

## The 12 Steps of Successful Projects

1. Recognize a problem
2. Define a research/study question
3. Review the literature
4. Refine the research/study question
5. Check alignment with institutional goals
6. Consultation (i.e. statistician, expert in research methodology, mentor)
7. Define research methodology
8. Conduct feasibility check
9. Obtain IRB approval
10. Collect data as planned
11. Analyze and interpret the data for meaningful results
12. Disseminate results of your study

## Conferences to submit abstracts of Medical Education projects (THESE ARE PEER-REVIEWED)

- UPMC GME Leadership Workshop
- American Association of Medical Colleges
- Pediatric Academic Societies
- Council on Medical Student Education in Pediatrics
- Association of Pediatric Program Directors
- Society of Hospital Medicine
- Your specialty national organization ...

## Publications to publish Medical Education projects (THESE ARE PEER-REVIEWED)

- MedEdPortal
- Teaching & Learning in Medicine
- Academic Medicine
- Medical Teacher
- Ambulatory Pediatrics
- Medical Education

## Educational Scholarship consult at Pitt

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## Book

1. Engaging in the Scholarship of Teaching and Learning. A guide to the process, and how to develop a project from start to finish. By Cathy Bishop-Clark and Beth Dietz-Uhler. Stylus. Sterling, Virginia. 2012.

## Online Resources

1. MedEdPortal: [www.mededportal.org](http://www.mededportal.org)
2. ERIC (pubmed version for education) <http://eric.ed.gov/>
3. BEME - Best Evidence in Medical Education. International group, like Cochrane Collaboration, that does high quality systematic reviews of education research. Great resource for information and also instruments with validity evidence for your own studies. <http://www2.warwick.ac.uk/fac/med/beme/>

## Articles of interest:

### Education Research - Getting Started

1. Crites GE, Gaines JK, Cottrell S, Kalishman S, Gusic M, Mavis B, & Durning SJ. (2014). Medical education scholarship: An introductory guide: AMEE Guide No. 89. *Medical teacher*, 36(8), 657-674.
2. Nuthalapaty FS, Casey PM, Cullimore AJ, Dugoff L, Abbott JF, Chuang, AW, ... & Wolf, A. (2012). To the point: a primer on medical education research. *American journal of obstetrics and gynecology*, 207(1), 9-13.
3. Beckman TJ, Cook DA. Developing scholarly projects in education: a primer for medical teachers. *Med Teacher* 2007;29:210-218.

### Education Research - Curriculum Development

1. Kern DE, Thomas, PA, Howard DM, Bass EB. Curriculum Development for Medical Education: A six-step approach. Johns Hopkins University Press: 1998. (this is a book)

### Education Research - Surveys

1. Rickards G, Magee C, Artino Jr AR. You can't fix by analysis what you've spoiled by design: developing survey instruments and collecting validity evidence. *J Grad Med Educ* 2012; 4(4):407-410.

### Writing and Reviewing

1. Bordage G. Reasons reviewers reject and accept manuscripts: the strengths and weaknesses in medical education reports. *Acad Med*. 2001;76:889-896.
2. Parsell G and Bligh J. AMEE Guide No. 17: Writing for journal publication. *Medical Teacher*. 1999;21(5):457-468.

## Dissemination:

### General Resources

1. Annotated Bibliography of Journals for Educational Scholarship, Coordinated by: NEGEA (Northeast Group on Educational Affairs) in collaboration with SGEA, WGEA and CGEA. April 2011, updated May 2012. [https://www.aamc.org/download/184694/data/annotated\\_bibliography\\_of\\_journals.pdf](https://www.aamc.org/download/184694/data/annotated_bibliography_of_journals.pdf)
2. Baldwin CD. The Nuts and Bolts of Scientific Writing. [http://www.academicped.org/espauthoring/page\\_01.htm](http://www.academicped.org/espauthoring/page_01.htm) a free, online, self-directed writing resource, adapted from the author's 8-hr workshop of the same name.
3. Journal of Graduate Medical Education has several articles that can serve as great resources for medical education researchers. Table 1 in Sullivan GS. Writing education studies for publication. *J Grad Med Educ* 2012;4(2): 133-137 is particularly helpful. These resources can be found at: [http://www.jgme.org/page/resources\\_for\\_authors](http://www.jgme.org/page/resources_for_authors)

### **Journals that accept submissions that are focused on the scholarship of teaching, integration and synthesis**

1. Insights (Clinical Teacher) – 800 words of “structured reflection”
2. How We... (Medical Teacher) – 2,500 words on how you did something; “what is involved in implementing a practical idea or topic in medical education” with a reflection
3. 12 Tips (Medical Teacher) – 3,200 words max giving practical tips or advice on something
4. APPD Pages (Academic Pediatrics) – 2,000 words describing innovations or topics relevant to pediatric residency/fellowship education
5. Pediatrics Perspective (COMSEP) (Pediatrics) – 1,200 words or less reflection on medical education topics relevant to medical student education
6. Perspectives (JGME) – 1,200 words of an evidence-based opinion
7. New Ideas (JGME) – semi-annual opportunity for 750 words or less describing a new idea in graduate medical education
8. On Teaching/On Learning (JGME) – 1,200 words of a personal reflection or essay of the physician experience
9. Really Good Stuff (Medical Education) – semi-annual opportunity for a 500 word write-up of a new innovation or idea
10. Short Report (J Interprofessional Care) – 1,000 words about an innovation or research in progress
11. Last Page (Academic Medicine) – one page visual display of a concept, trend, program, policy, or person that is timely or timeless
12. Developments (Teach Learn Med) – 2,000 words of a new innovation or development
13. Viewpoint (JAMA) – about 1,000 words, well focused and evidence-based on an important topic

### **Top Nine Reasons Reviewers Recommend Acceptance of Medical Education Manuscripts**

1. Important, timely, relevant, critical, prevalent problem
2. Well-written manuscript (clear, straightforward, easy to follow, logical)
3. Well-designed study (appropriate, rigorous, comprehensive design)
4. Thoughtful, focused, up-to-date review of the literature
5. Sample size sufficiently large
6. Practical, useful implications
7. Interpretation took into account the limitations of the study
8. Problem well stated, formulated
9. Novel, unique approach to data analysis

*Bordage, Georges (2001). Reasons reviewers accept and reject manuscripts: The strengths and weaknesses in medical education reports. Acad Med 76(9), 889-896*