Building Capacity for Scholarship in your Teaching Practice: Tips for Engaging Learners

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Disclosures

None





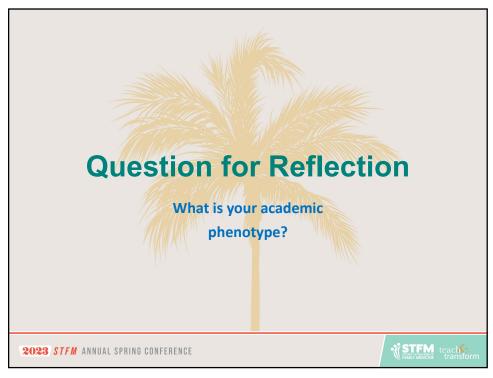
Forms of Scholarship

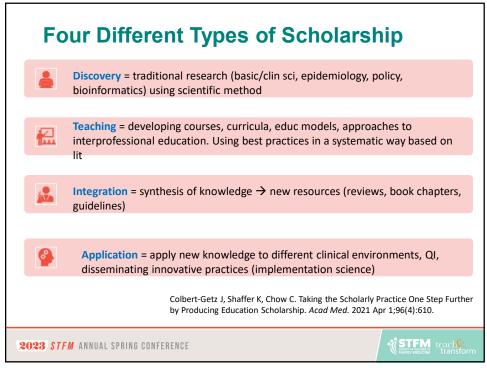
Scholarship may take the form of peer-reviewed publications, invited publications in journals, books (or chapters of books), reports for agencies or organizations, significant public communications for education or advocacy, inventions or patents, laws or regulations, institutional or professional policies, clinical or professional guidelines, curricula, syllabi, or any equivalent online or information technology-based materials, among others.

-KPSOM Faculty Handbook

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It is important to advance medical knowledge

Publishing is "academic currency" → build credibility

It is your Intellectual Property / legacy → get credit for work you've done

Sets you apart from the pack

Increases your depth and breadth as a clinician

Leadership development

Find joy or meaning in work

Gain skills in Evidence Based Medicine (education by peer reviewers)

CME credits

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Publication is a universal currency in academia

Bronze: Podcasts, Blogs, Newsletters, Magazines, Social Media

Silver: Commentaries/Perspectives, Reviews (eg AFP, UpToDate), Case Series/Reports, Editorials/Letter to Editor

Gold: original research publications, grants

Diamond: the randomized, double-blind, placebo-controlled clinical trial







Success of a scholarly project often depends on a student / resident having a special interest in the topic & how well the project capitalizes on their strengths

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Case Study: Engaging medical students in practice-based quality improvement projects Population Based Medicine projects at KP San Diego Family Medicine Residency Program 2023 STFM ANNUAL SPRING CONFERENCE

Examples of Value-Added Medical Education

- Population health management outreach (cancer/vaccinations)
- Chronic disease management (eg DM metrics)
- Clinic quality improvement activities → workflows (rooming/BP/etc)
- Health coaches (long term)
- Patient educators
- Motivational interviewing for behavior change during clinic appointments

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Rationale for Population Based Medicine (PBM) education program - 2019

- KP has maintained a robust system of preventative care and population-based medicine for decades, but QI work had not traditionally been an established requirement of our Family Medicine student clerkship.
- Family Medicine educators need to: empower learners with evidence-based knowledge, cultivate inquiry skills and provide leadership experiences conducive to 21st century medical practice.



Rationale for Population Based Medicine (PBM) education program - 2019

- Future physicians will require a strong foundation in systems-based practice and health system science.
- Acquisition of skills in inquiry and QI are not easily achieved through the standard clerkship curriculum of office encounters, didactic presentations and exam preparation.

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PBM program: Short Term goals

- Teach students about patient centered communication
- Provide insights into why care gaps might exist and give opportunities to address them.
- Provide opportunity for practice-based research and education within the QI structure of our Family Medicine Center.
- Provide students a stake in our health care delivery and opportunity to develop leadership skills.
- Build a bridge between our organization's expanding work in <u>population health</u> and expanding role in undergraduate medical education.



Population Based Medicine: The Challenge

- Many patients overdue for preventive care <u>do</u> not come in for appointments
- Underrepresented minority groups are less likely to receive preventive care.
- Acquiring skills in PBM is part of the core competency of Systems Based Practice as well as the Triple/Quadruple Aim of health care → educational need is present

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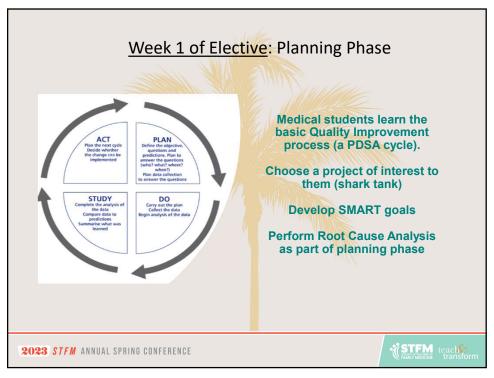


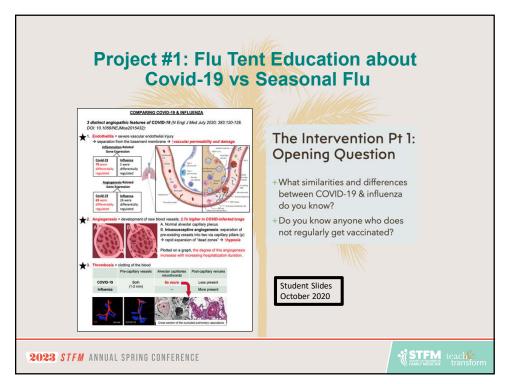
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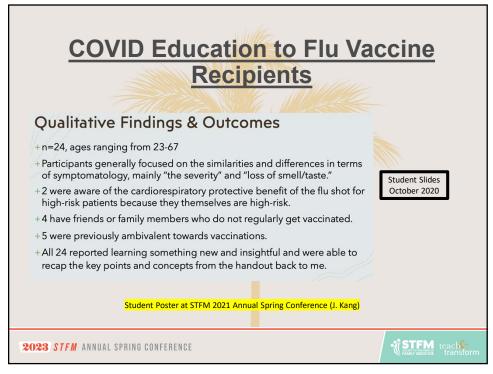
Design of PBM pilot

- Elicit ideas/suggestions/concerns from teaching faculty
- Started with our 4-week block rotations (MS4 Sub-Internship)
- Week 1: Planning phase
- Week 3: 1-2 Half Days of protected time to work on PBM
- Week 4: Student gives oral presentation ~ 15 min

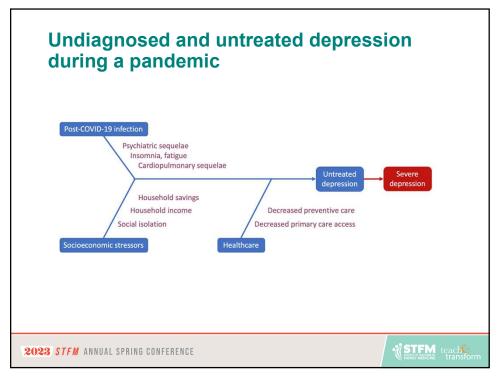








Project #2: Screening for Post-Covid Depression During COVID-19, there was decreased incidence of depression diagnoses in primary-care • There may be people with undiagnosed and untreated depression and other mental illness Care M. Roger S. Web R.T. at a Effect of the COVID-19 pendenci on primary care-cooled montal illness and self-ham reproduct in fig. UK. a population-based valour moly. The Lancer Palis Teachs. 2011 16(2):124-13. doi:10.1016/2009-16.101(2)03/2005-1



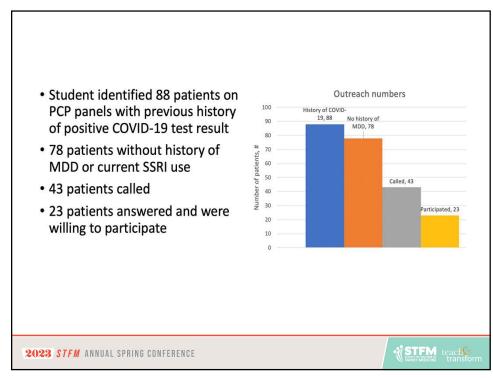
Screening for Post-Covid Depression

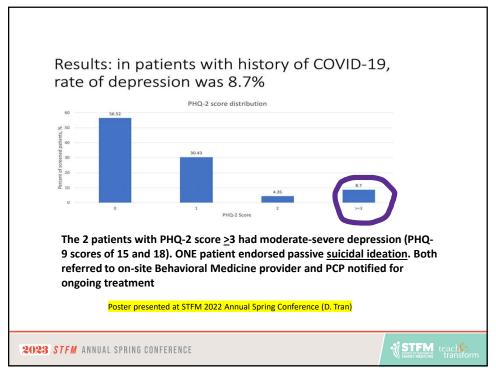
- Intervention: screen patients with history of Covid-19 infection and no history of MDD
- 2 step strategy: pre-screen with PHQ-2 and then PHQ-9 if score ≥3
- PHQ-9 score 1-4: provided resources such as CALM App and Health Education classes
- PHQ-9 score 5+: offer Behavioral Medicine and route to FMR behaviorist and PCP

Student Slides Sept 2021

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General Lessons Learned from Population Health QI Projects with Visiting Medical Students (2019-2021)

- Enthusiasm of medical students was harnessed for creative solutions to challenging, yet common, clinical problems
- Provided enhanced educational value to learners (pursue interests, learn QI)
- Provided faculty a wider lens through which they could evaluate the students' interests/clinical competencies/potential fit for our residency program
- · Improved clinic workflow and function.
- The amount of actual time and effort required by our clinical faculty was small as our PBM pilot projects were integrated into the overall clinic workflow, which included nursing and administrative teams.

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Recent student case report

Student: I want to be an Ophthalmologist. I don't have much research experience. I will take a gap year.

Preceptor: Are you interested in writing a case report for publication? I have a great eye case for you.

Student: Yes, please.

Preceptor: Look at these journals that publish case reports. Focus on these 1-2 journals first. Send me a draft that complies with Author Instructions (word limits / etc)

FULL TEXT ARTICLE

Herpes Zoster Ophthalmicus Associated with Oculomotor

Nerve Palsy

Tonya Lee BS, Matthew C. Carnahan MD and Payam Sazegar MD

American Journal of Medicine, The, 2022-02-01, Volume 135, Issue 2, Pages e47-e48, Copyright © 2021 Elsevier Inc.

Case Presentation

A 67-year-old African American male presented with a 1-week history of left eye pain with conjunctival erythema, a painful rash on his left forehead, headache, and 2 days of diplopia. The physical examination was notable for conjunctival injection of the left eye, left upper eyelid ptosis, and crusting forehead skin lesions. The patient was unable to maintain gaze medially or laterally; attempts at prolonged gaze resulted



Example: Preparing a Case Report

Read Author Guidelines for journals that publish case

Eg. Permanente Journal, American Journal of Medicine, Southern Medical Journal

- Word count is variable
- · Highly motivated students applying to competitive specialties
- Think of 2-3 key points from the case
- Qs to ask: (https://med-fsu.libguides.com/publishing) Who is the Publisher?

Fee?

PubMed?

Open Access?

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Tip #1: Know your end goal

What journal to choose?

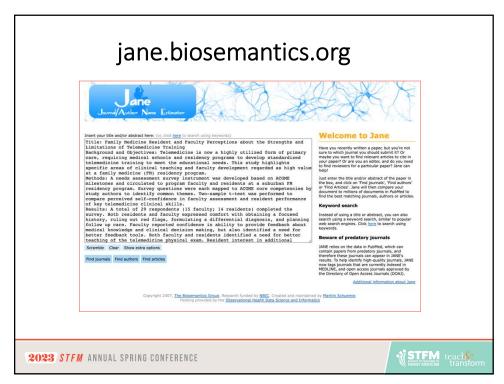
Eg: Am Fam Physician vs Ann Fam Med vs Fam Med

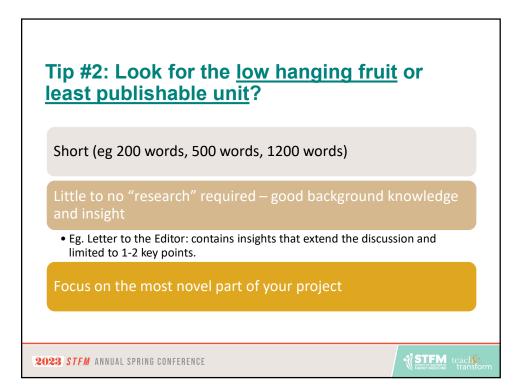
- Talk to 3+ different colleagues
- Read the table of contents of journal to see what kind of articles they publish
- Use JANE (Journal/Author Name Estimator) for Abstract. Then start with list of 4-5 journals
- Identify the formula (journal website, previous articles, common words/trends/structure) to crack the code

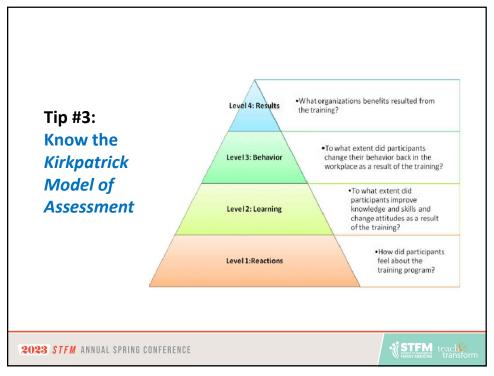
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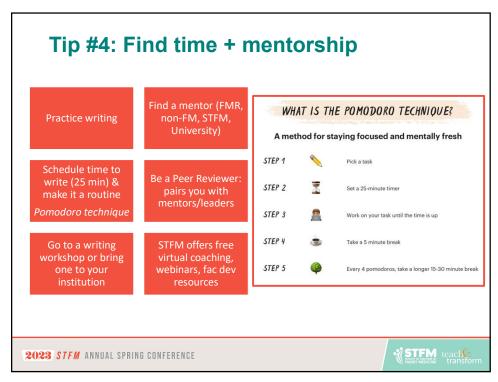


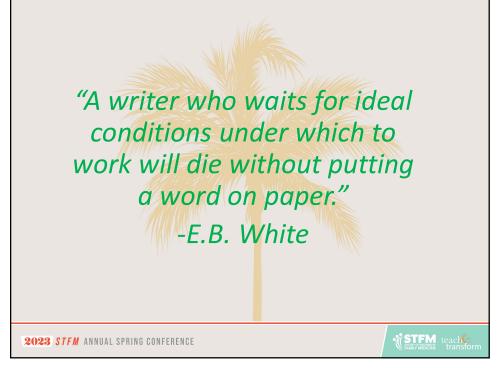
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Tip #5: Identify causes of procrastination

- If you're feeling overwhelmed with the process, get help chunking it into smaller pieces
- Collaborate with experienced colleagues
- Schedule time to write
- Write as you go in bits (vs "I will finish this project then write it up")
- Finding Accountability partners or Writing Accountability Groups are a common best practice (set writing goals)

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Tip #6: Don't be discouraged by rejection

- Read Author Instructions and follow them precisely
- Ask Editor for feedback
- Publishing requires a good pitch and spin
- Ask colleagues for suggestions
- Use JANE to find a short list of other publications
- Accept with Major Revisions = great news



Conference Presentations More Likely to Get Published if...

(From STFM 2021 Annual Conference presentation by STFM Faculty Development Collaborative) Oral presentations (more prep/organization)

Quantitative (ability to translate)

Study completed at time of presentation (better feedback)

Rigor in abstract (design/methods)

Multiple institution collaborations (variety of viewpoints, similar data sets)

PhD as last author (guide)

Acting quickly—relevant/important topic (3 years max)

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General Advice for Publishing

- QI projects (making change in program) do not need IRB unless you plan to publish → need IRB approval or IRB exempt letter
- Do a **Resident** / **Student Work in Progress** presentation → before collecting data/results
- Put thought/effort into Limitations section (as well as strengths)
- Some journals will ask single institution studies to be research briefs (1000 words) instead of full manuscript (3000 words)
- Use Reference Manager (Endnote, Zotero) saves you time
- Make everything count TWICE



Take home messages

Medical students and residents can be effectively leveraged to build capacity for scholarship in clinical practice.

Scholarship is a team sport with diverse forms

Publishing is formulaic but requires time + mentoring + accountability

Writing skills can be learned and, with practice, most faculty and residents can become excellent scholars

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