

Don't Let An Idea Pass You By: Emergency Medicine Application Tool for Common Hang-ups (EMATCH) a Novel Solution Becomes Educational Research

Speakers:

1. Lucienne Lutfy-Clayton
2. William Soares
3. Doug Frazen

Keywords (up to 3):

Applications, Education Research, underrepresented groups

Narrative:

You have a brilliant innovation! But how do you transform that innovation into a research project? Using the EMATCH study as an illustration, we will discuss the process of forming a research question, design and analysis plan and review the pilot data from this exciting new tool for applicants.

Goals and Objectives: (Please be specific. If this session is selected, these will be used as the formal goals and objectives for CME purposes)

Those who attend this session will be able to:

Objective 1: Describe the fundamental differences between educational innovation goals and research outcomes.

Objective 2 : Compare advanced research design methods available to faculty interested in education research.

Objective 3: Summarize the findings from the EMATCH pilot study to reduce excessive residency applications.

Developed with API:

- Despite spots per applicant remaining steady Average # Applications have increased steadily increased from 35 to 53 over past 5 years
- Applicants when surveyed by API in 2018 many recognized they had applied to too many
- Driving forces appeared to be peer advice and uncertainty & I wanted to try to help ease anxiety to hopefully change this trend

Evolution of tool derivation:

- It turns out competitiveness is pretty hard to access without a SLOE
- Jaime Shandro had the brilliant idea to develop a PERC rule for applications-identifying the pitfall traits for applicants so that if they had none they could feel reassured
- I pored over NRMP data and came up with a list of “red flags” - much from PDS of both citing factor and importance of applicant traits for interviews and ranking-
- Sticking to the PE theme we simplified to major and minor criteria and had both each yes and nos push best practice advising to applicants
- Delphi technique: API leadership, ASC EM leadership, API & ASC EM members, CORD BOD, CDEM, EMRA

Collaboration with researcher for validation design:

Bill Soares is a NIH grant funded researcher in my department who was too nice to say no despite having way too much to do and no background in advising he immediately set to work taking my idea and designing a validation

Design:

What is your question

Defined outcome - primary outcome.

Need for Generalizability - don't couch things in your residency/medschool.

pitfalls / classic mistakes

Validation:

- Pre & Post survey:
- @risk trait
- Competitiveness
- #apps planned

Preliminary Results:

- Exceeded our sample size 198 to find reduction of 10%(5 applications) 1240 total respondents
- Representative sample
- Raw data - #applications planned after tool decreased by 10(50.5 to 40.5)