

Multi-Campus Model for a Critical Care Research Elective

A multi-investigator research elective course that spans four campuses provides broad experiences for students and produces high scholarly output

Background

The development of research skills helps “develop inquisitive pharmacists with attributes required for scholarly clinical practice”

– American Association of College’s of Pharmacy 2011-12 Argus Commission

Traditional Research Elective

Preceptor + student

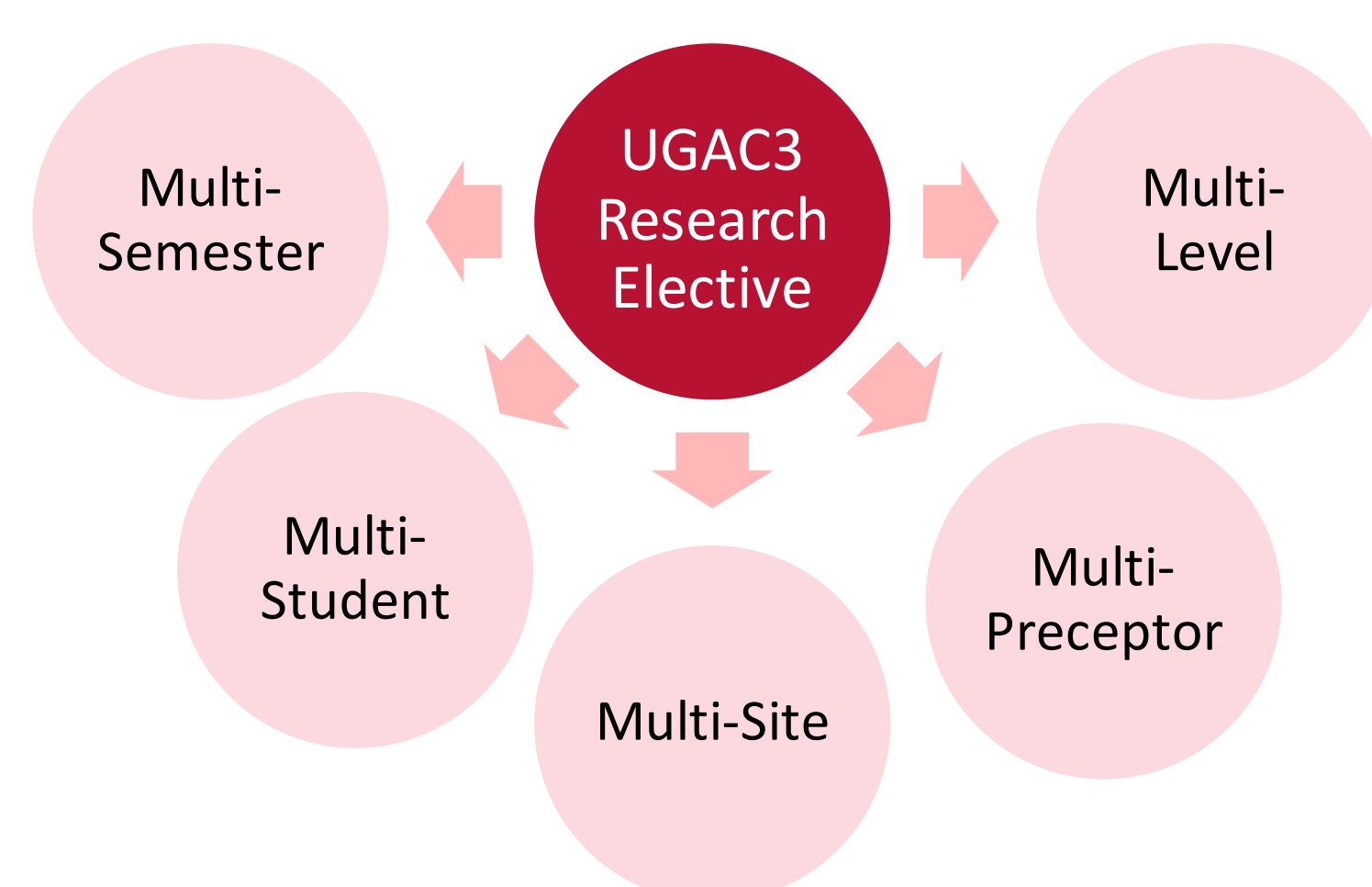
Independent study

Single center, single semester

Objective

- Describe the impact of a novel practice-based, patient-centered, and outcomes-driven research elective on student perceptions of the research process

Course Design



Core Activities:

- CITI, REDCap training
- Peer review
- “Intro to Research”
- “Review of Biostats”

Individual Activities:

- Project design
- Regulatory processes
- Data collection tool development
- Data collection
- Data analysis
- Abstract writing
- Manuscript writing
- Poster development

Methods

- Pre-course survey:
 - Prior experiences and course expectations (3)
 - Confidence in research areas (19)
- Post-course survey:
 - Course experiences (4)
 - Confidence in research areas (19)
- Research activities recorded by campus instructor

Results

- Spring 2019 = semester 1
 - 4 faculty and 6 students across 4 sites
- Median of 5 unique research activities completed per student
- At least 1 student participated in 15 of the 19 research activities
- Confidence level of novice decreased from 10 of 19 research areas pre-class to 2 of 19 research areas post-class ($p=0.043$)
- Students produced 7 abstracts and 2 manuscripts in progress

Implications

- Novel course design is a promising approach to increase the depth of experiences provided by a research elective
- Mechanism to increase student engagement and scholarly output for distant faculty with shared interests
- Future work will evaluate course implementation over multiple semesters, with a focus on the application of layered learning

Investigator Team

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Tables and Figures

Figure 1. Student confidence in 19 areas of research

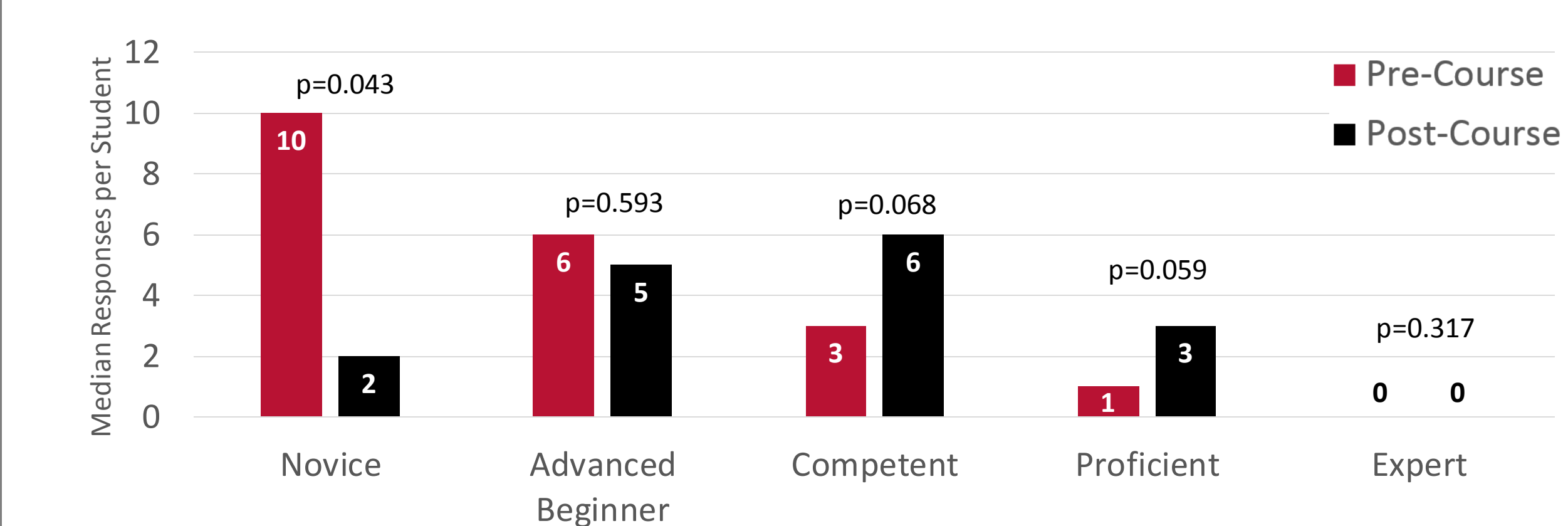


Figure 2. Research activities and student confidence

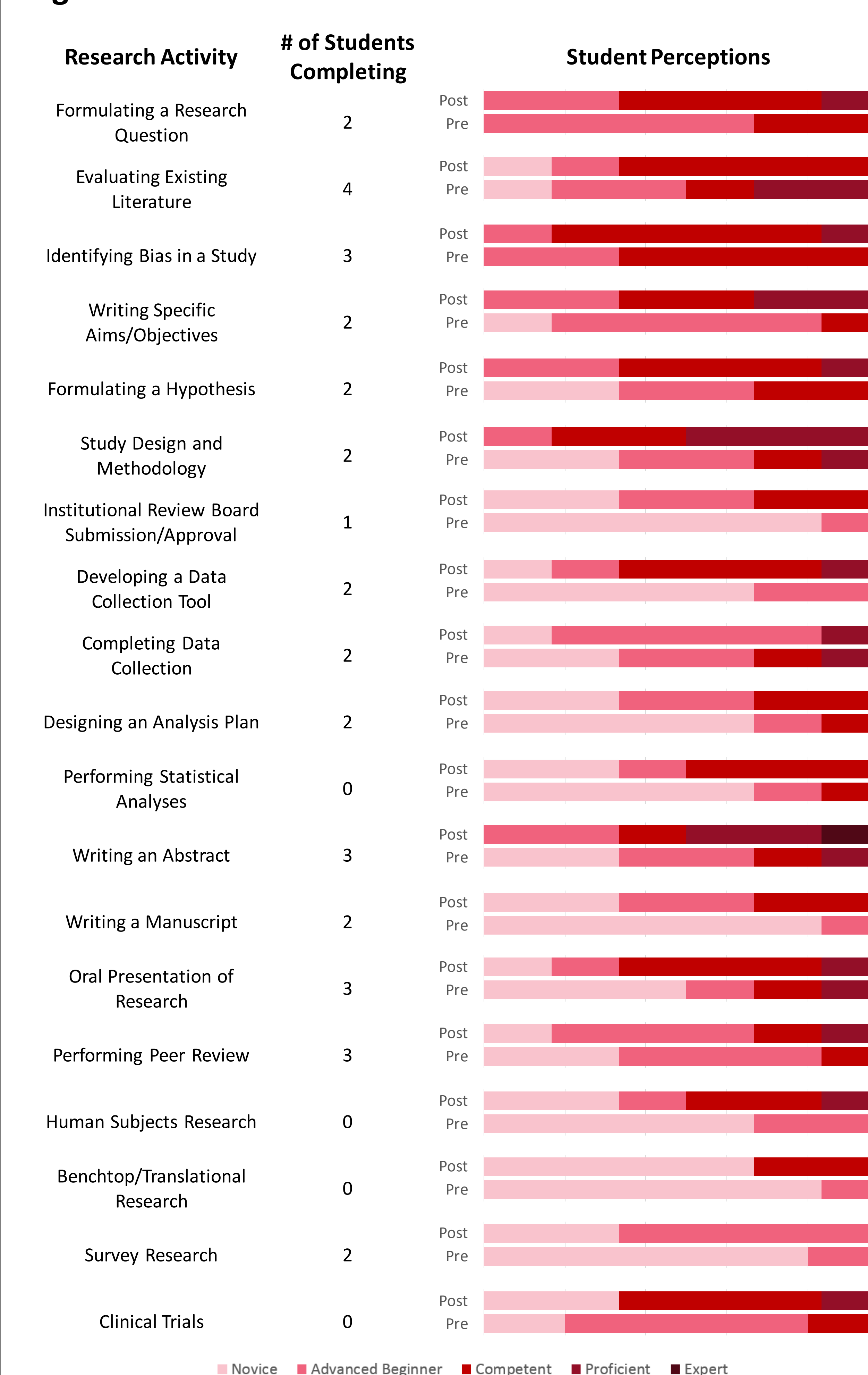


Figure 3. Proposed focus of research elective progression

