

Is academic medicine prepared to teach about the intersection of childhood experiences and health?

A survey of faculty

Angie Koo¹, BA, Jordyn Irwin², BA, Morgan Sturgis², BS, Alan Schwartz³, PhD, Memoona Hasnain⁴, MD, MHPE, PhD, Elizabeth Davis⁵, MD, and Audrey Stillerman⁴, MD

¹University of Illinois at Chicago, College of Medicine

²Rush University, Rush Medical College

³University of Illinois at Chicago, Department of Medical Education

⁴University of Illinois at Chicago, Department of Family Medicine

⁵Rush University, Department of Internal Medicine



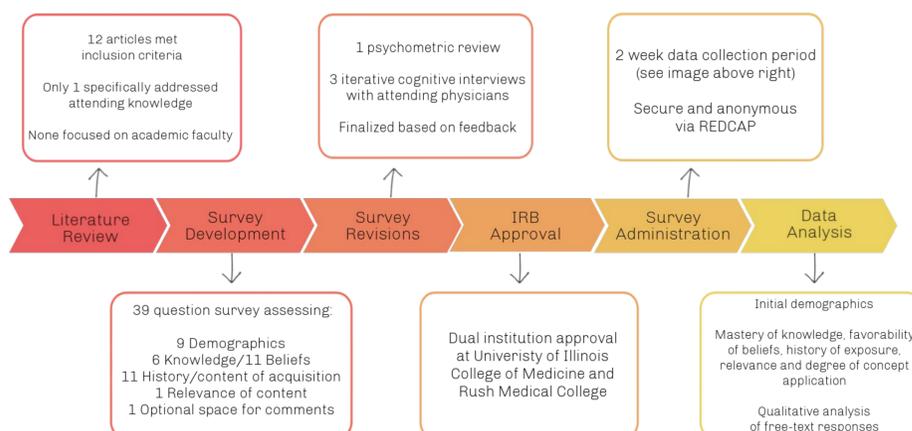
Introduction

Childhood adversity and trauma is a common, preventable, root cause of disease and health disparities across the lifespan.^{1,2} Evidence-informed prevention and treatment strategies are emerging.³ Nevertheless, most practicing physicians studied have not mastered this information.⁴



What is the current state of medical faculty knowledge and beliefs, the timing and route of knowledge acquisition, and are there faculty characteristics associated with mastery?

Methodology

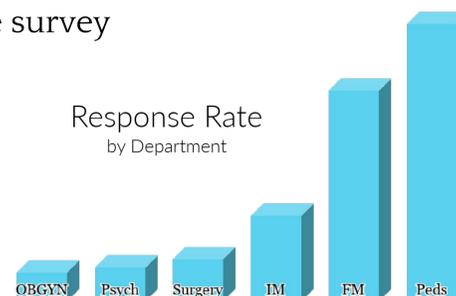


References

1. Felitti VJ, Anda RF, Nordenberg D. Relationship of Childhood Abuse and Household Dysfunction to Many of the Leading Causes of Death in Adults: The Adverse Childhood Experiences (ACE) Study. *Am J Prev Med* 1998;14(4)
2. Stillerman A. Childhood Adversity and Lifelong Health: from Research to Action. *J Fam Pract*. 2018. Nov;67(11):690-699. <https://www.ncbi.nlm.nih.gov/pubmed/30481245>
3. Jones NL, Gilman SE, Cheng TL, Drury SS, Hill CV, Geronimus AT. Life Course Approaches to the Causes of Health Disparities. *Am J Public Health*. 2019;109(5):S48-S55. doi:10.2105/AJPH.2018.304738
4. Szilagyi M, Kerker BD, Storfer-Isser A, et al. Factors Associated With Whether Pediatricians Inquire About Parents' Adverse Childhood Experiences. *Acad Pediatr*. 2016;16(7):668-675. doi:10.1016/j.acap.2016.04.013

Results

- Response rate: 8.8% (n=81, 72 out of 81 report teaching)
 - UIC>Rush
 - Peds>FM>IM>Surgery>Psych>OB/GYN
- Mastery/Favorability (≥80% correct/favorable):
 - 65% achieved mastery - knowledge questions
 - 42% achieved favorability - beliefs questions
 - 19% achieved both mastery and favorability
- Overall, performance did not significantly differ between institutions/depts/race/sexuality/year of training completion
 - Exceptions: More females (76%) achieved knowledge mastery than males (48%) (p = 0.013)
 - More pediatricians achieved both high knowledge and belief scores compared to all other specialties (45% vs. 24%, P = 0.047).
- Exposure to concepts
 - 52% described exposure to ≥9/11, but only 21% through a formal route
 - Institution, gender, specialty, or year of training completion did not significantly affect exposure scores
- 96% believe study concepts are relevant to practice; yet only 22.2% report full incorporation into work
 - 94% of full incorporators had been exposed to ≥9/11 concepts (p<0.01)
 - Respondents who believed concepts were relevant but were not applying them indicated time was a limitation (P=0.001)
- Open-ended responses aligned with responses to the rest of the survey



Discussion

- **Most respondents have mastered study concepts; the overwhelming Majority believe they are relevant; Few are fully incorporating them. Academic faculty are on their way but not there yet.**
- **Few significant demographic differences** exist for mastery, suggesting **all faculty can learn and apply this material.**
- **Confidence to fully incorporate/apply** these concepts is **most strongly associated with exposure to content.**
- **Learning this content in formal training** is likely an **important** route to **achieving mastery.**
- Results suggest **intentional faculty development** will be **pivotal** to adequately arm current faculty with tools necessary to **employ these concepts in teaching and clinical care..**



Future Directions



This survey is **the first of its kind** and can propel future research in this essential arena. Next steps include:

- 1) Expanding the survey sample size and number of institutions after validation
- 2) Assessing the impact of geography and career-stage of exposure/education on provider comfort and implementation scores
- 3) Developing and evaluating core competencies and curricula
- 4) Addressing the multilayer concerns of time constraints and insufficient resources

[Curated Resource Link for Faculty](#)