

Background

- As a core entrustable professional activity, graduating medical students should recognize patients requiring urgent or emergent care and initiate evaluation and management.
- Although the Intensive Care Unit (ICU) is a rich environment to develop these skills, only 1/3 of medical schools require an ICU rotation. Therefore, many interns begin residency training without prior critical care experience.
- Core critical care content within undergraduate education exists, but whether interns starting residency are confident in these areas is unknown.

Objectives

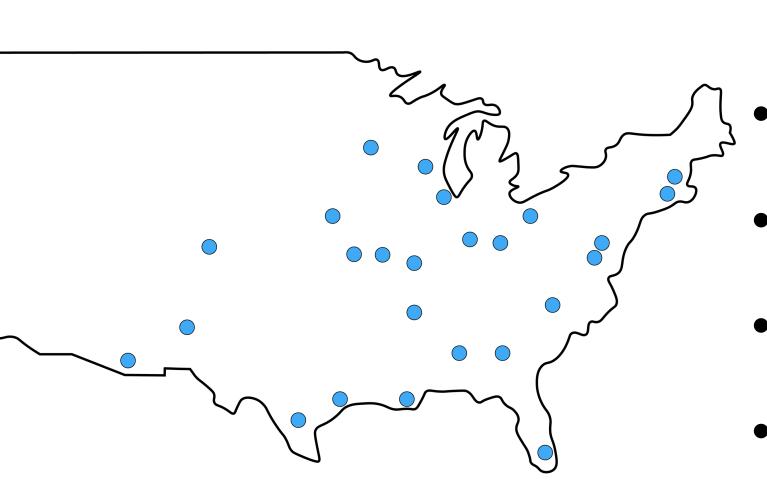
- To determine the perceived level of competency in core critical care content amongst incoming Internal Medicine (IM) interns.
- To examine the relationship between prior critical care experience and perceived level of competency in core critical care content.



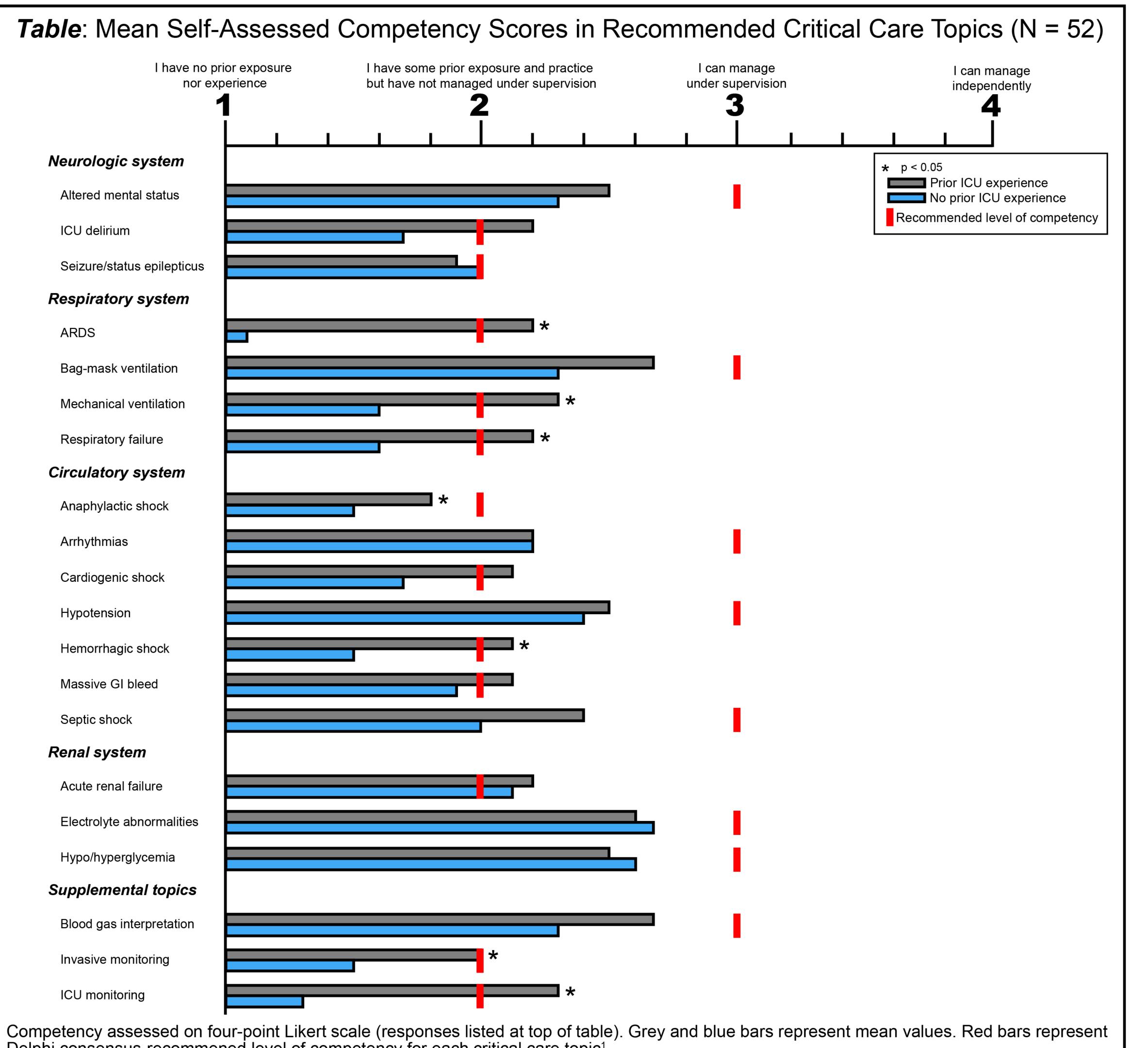
Ready Or Not, Here They Come: Internal Medicine Interns' Experience And Perceived Competency In Critical Care

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Results



- 52 IM interns (70%) completed the survey
- Interns represented 32 different medical schools
- 40/52 (77%) completed an ICU rotation
- 18/52 (35%) were required to complete an ICU rotation



Delphi consensus-recommened level of competency for each critical care topic¹.

¹Smith AG, Brainard JC, Campbell KA. Development of an Undergraduate Medical Education Critical Care Content Outline Utilizing the Delphi Method. Crit Care Med. 2020 Jan;48(1):98-103



Conclusions

• IM interns are entering residency with perceived competency levels below consensus recommendation.

Interns without prior critical care experience have self-assessed competency scores below consensus recommendations in 18/20 topics.

• Compared to interns with prior critical care experience, interns without prior experience reported significantly lower competency levels in the following topics:

- Acute respiratory distress syndrome
- Mechanical ventilation
- Respiratory failure
- Anaphylactic shock
- Hemorrhagic shock
- Invasive monitoring
- ICU monitoring

Future Directions

As learners who complete critical care rotations during medical school have higher perceived competency in core content, these learning experiences should be expanded.

• Alternatively, design and implementation of "just-in-time" digital learning resources could bridge identified knowledge gaps.

• Objective competency assessment is needed to further understand these findings.