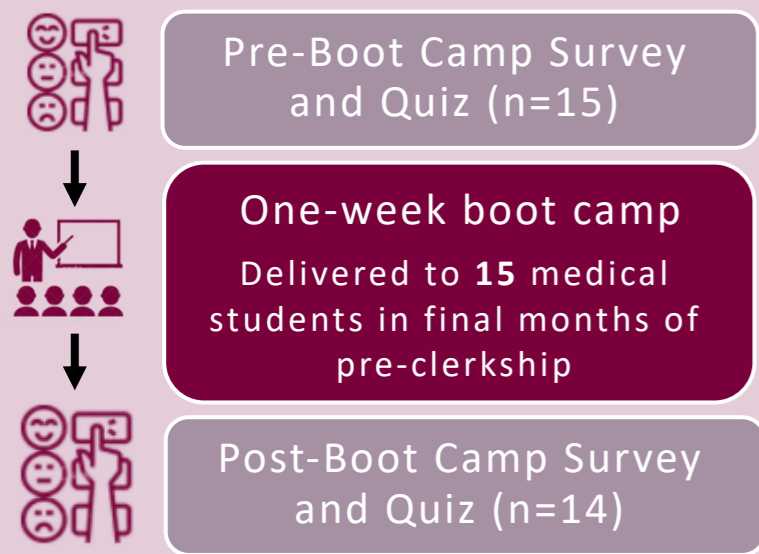


# INTRODUCTION

- In November 2022, we offered a new one-week comprehensive radiology boot camp elective **for pre-clerkship students**
- It was targeted to **any medical students** wanting to develop interpretation skills
- Learning objectives** included:
  - become familiar with scope of radiology
  - gain exposure to common modalities and procedural skills
  - develop level-appropriate approaches to image interpretation
- Few publications on similar courses exist; others are at different stages of training

# METHODS



- The **21-question knowledge quiz** used validated AMSER STARS questions; the **survey measured qualitative attributes**

# RESULTS

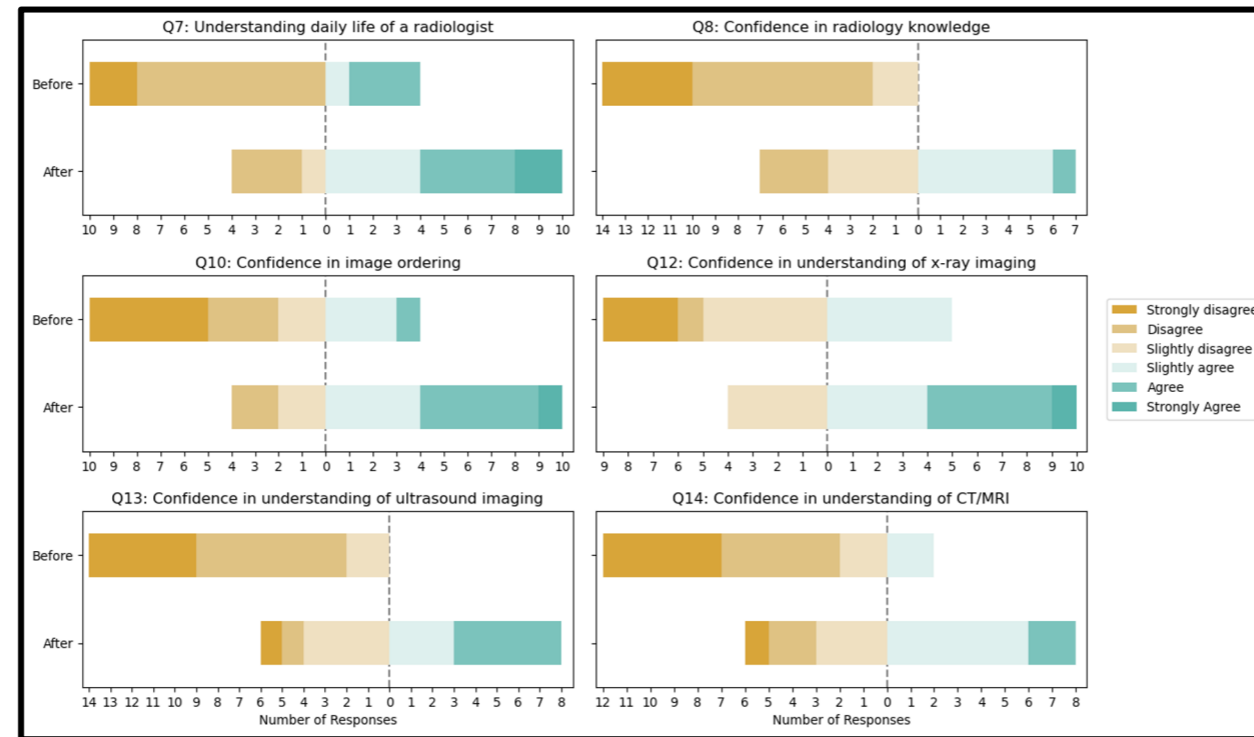


Figure 1: Visualized Likert data from selected survey questions (n=14). There were statistically significant increases in mean survey scores for all displayed questions.

	Strengths	Areas for improvement
Teaching style	Use of <b>example cases</b> throughout the sessions and in Aquifer modules (6)	More <b>interactive anatomy</b> review (3)
	Solid coverage of foundations; <b>repetition of basic concepts</b> and high-yield concepts (6)	Some didactic components did not seem <b>level-appropriate</b> for medical students (3)
	Frequent low-stakes <b>assessment opportunities</b> (4)	
Content	Hands-on <b>exposure to procedural skills</b> (5)	Reviewing <b>approaches</b> with examples was more valuable than anatomy review (9)
	<b>Diversity</b> of topics (4)	<b>Consistent teaching style</b> in all sessions focused on approach to each case (8)
Logistics	Balance between interactive and didactic; praise for <b>flipped classroom</b> approach (5)	More <b>time to complete flipped classroom materials</b> , especially prior to the first day (7)
		Timing during procedural skills session to ensure <b>adequate time at each station</b> (5)

Table 1: Summarized feedback on the course from student free-text responses.

	Mon	Tues	Wed	Thurs	Fri
AM	Orientation and basics	<i>Self-directed learning</i>	Neuro imaging	Procedural skills and ultrasound	Wrap-up; Q&A; Review cases
PM	Chest imaging	MSK imaging	Abdominal imaging		<i>Self-directed learning</i>

Table 2: Course schedule. The course used a flipped-classroom approach requiring students to complete modules before sessions

- High interest to enroll** in the elective (24/167 elective students ranked it as their first choice)
- High student satisfaction** following the boot camp with mean rating 8.1 out of 10
- Statistically significant (p=0.0008) increase in mean quiz score **from 50.1% to 66.0%**
- Career interest** in radiology was not changed
- Consensus from students that **improving radiology skills would boost confidence on other rotations**

# CONCLUSIONS

- All measures of learner confidence improved by the end of our one-week boot camp
- Success in improving knowledge and confidence, high interest to enroll, and ability to reach more students than traditional radiology electives are encouraging to continue offering the boot camp