Enhancing Medical Education: The Impact of an American College of Radiology Workshop for Students

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BACKGROUND

We held an ACR-sponsored workshop to introduce medical students to radiology subspecialties and facilitate networking with Arizona-based trainees and radiologists. Subspecialists in breast, pediatric, neuroradiology, nuclear medicine, interventional radiology (IR), and radiation oncology gave talks. The ACR covered advocacy, entrepreneurship, and the future role of artificial intelligence (AI) in radiology. Students engaged in Point of Care Ultrasound (POCUS), angiography simulation, mystery cases, and a Q&A with residents and faculty. We aimed to assess attendees' interest and familiarity with radiology before and after the event.

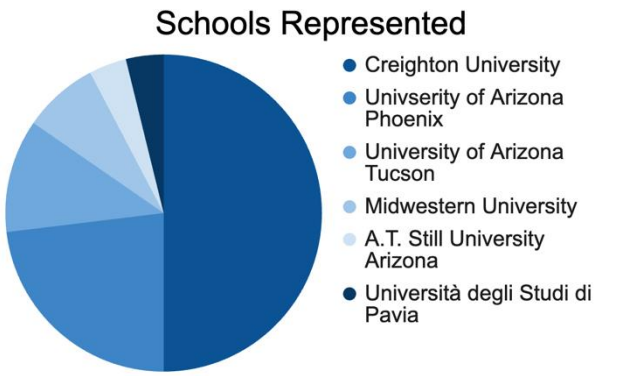
METHODS

Attendees completed a pre- and post-event survey with Likert scale and multiple-choice questions. Data from 26 pre- and post-surveys were analyzed with a paired t-test.

RESULTS

Question	Pre-Survey	Post Survey	p-value
Level of interest in Radiology	4.62	4.58	0.87
Likelihood you will apply to a Diagnostic Radiology (DR) residency	4.46	4.50	0.89
Likelihood you will apply to Interventional Radiology (IR) residency	2.54	2.50	0.92
Familiarity with the scope of practice of Diagnostic Radiologists	3.69	4.38	0.00
Familiarity with the scope of practice of Interventional Radiologists	3.15	3.85	0.03
Familiarity with the scope of practice and contributions of the American College of Radiology (ACR)	2.73	3.88	0.00
Familiarity with current implementations of Artificial Intelligence (AI) in Radiology	2.42	3.85	0.00
Comfort and knowledge level in performing Point-of-Care Ultrasound (POCUS)	2.15	2.85	0.04
Comfort and knowledge level regarding what it takes to be a competitive applicant for Radiology residency	2.96	4.04	0.00

RESULTS



What subspecialty of radiology interests you the most?	Pre-Survey Responses	Post-Survey Responses
Neuroradiology	6	6
Musculoskeletal	4	3
Interventional	4	6
Mammography	4	4
Pediatric	2	2
Unsure	6	5



CONCLUSION

Students from almost every medical school in Arizona attended an ACR workshop to network and learn from local radiologists. We saw a 58% attendance rate from registrants and had a 36% survey completion rate. This was a free event and likely attracted individuals already interested in radiology. Thus, interest in radiology and likelihood of applying to a radiology residency did not significantly change after the event. However, attendees reported an increased familiarity regarding the field of diagnostic radiology, interventional radiology, the role of the ACR, AI's role in radiology, POCUS, and qualities of a competitive radiology applicant.