

RadExam® 5 Years Out: The Trainee Perspective

Ged G. Wieschhoff, MD

Department of Radiology, Brigham and Women's Hospital, Mass General Brigham, Harvard Medical School

Background

RadExam® is an extensive online image-rich multiple choice question bank and exam administration platform that was first rolled-out July 2018^{1,2}. It is a collaborative effort of the Association of Program Directors in Radiology (APDR) and the ACR. The benefits of RadExam® are myriad, including a) high quality questions, b) formative assessment that can be standardized, targeted, and recurring, c) evaluation that is comparable within and across training programs, and d) engagement of trainees in best practice cognitive learning strategies - such as retrieval, spaced learning, and interleaving. Medical academic performance is enhanced by positive emotions, high self-efficacy, and effective metacognitive learning strategies³; so, the trainee's opinion of and experience with RadExam® matters for RadExam® to achieve its objectives. The purpose of this study is to understand the radiology trainee's attitudes and opinions towards RadExam®.

Materials and Methods

A survey of opinions about RadExam® was sent to all 40 current radiology residents at our institution as well as recent residency graduates from our institution that remain within our institution (including 2 R5 trainees and 4 attendings 1-2 years out of training) between February and March 2023.

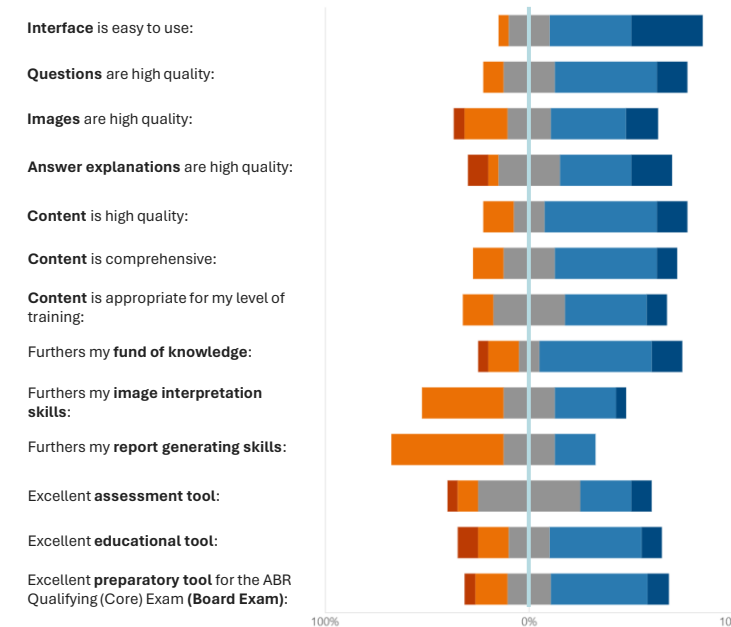
Results

Respondents:

- 18 residents (45%), 0 R5 trainees (0%), and 2 attendings (50%)
- Average of 5 RadExam® tests taken per respondent (range: 1-9)

Indicate your **disagreement** or **agreement** with the following statements:

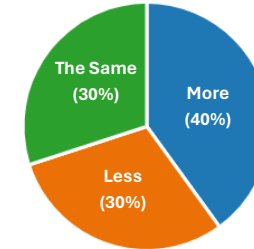
■ Strongly Disagree ■ Neither Agree nor Disagree ■ Strongly Agree



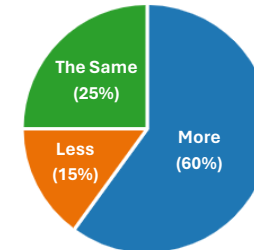
Additional Feedback:

- "RadExam® cases are very helpful for the boards, and we should take them as much as possible, though not necessarily in the OSCE setting."
- "Always good to have more questions for board prep, but I think the in person OSCEs make a better assessment tool."
- "I felt the questions were very subtle eye tests. This is not the type of question on the Core Radiology Exam."

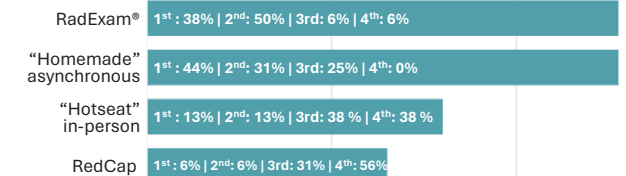
I would like to use RadExam® as an **assessment tool**:



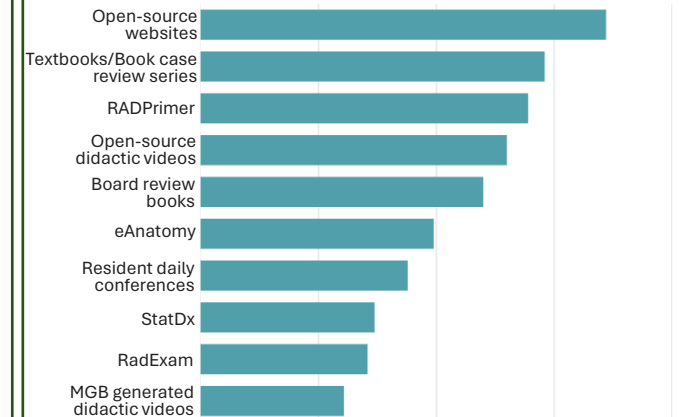
I would like to use RadExam® as an **educational tool**:



Rank your **preferred OSCE format** (highest to lowest):



Rank the following **educational resources** in order of importance for your education (highest to lowest):



Take Home Points

1. RadExam® is an easy to use, high quality question bank and exam administration platform that is well received by radiology trainees
2. Trainees would like to use RadExam® more as an educational tool
3. Trainees would like to use RadExam® more or the same amount as an assessment tool

References

1. Lewis PJ et al. Educational Crowdsourcing: Developing RadExam. J Am Coll Radiol. 2017;14(6):800-803
2. Jordan SG et al. RadExam Turns 1: Offering Solutions to Radiology Residencies. J Am Coll Radiol. 2019;16(9):1206-10
3. Hayat AA et al. Relationships between academic self-efficacy, learning-related emotions, and metacognitive learning strategies with academic performance in medical students: A structural equation model. BMC Med Educ. 2020;20(1):76