Case Studies in Training and Education

Imaging Wisely: An introduction to the ACR Appropriateness Criteria® and analysis of its impact on internal medicine trainees


Description of the Problem

Overutilization of diagnostic imaging is an increasing concern. In the United States, an estimated 50% of all cross-sectional imaging may not provide useful information for management [1]. This overuse contributes to increased radiation exposure, higher costs, and physical and psychological burdens from incidental findings. In 1993, the American College of Radiology Appropriateness Criteria® (ACR AC) were developed to enhance quality, maximize efficient imaging utilization and decrease...

Program Description

We piloted “Imaging Wisely” with IM interns at the University of Chicago Medicine (UCM) from 2017 to 2018, introducing principles of high value image ordering utilizing the ACR AC. We analyzed post-curricular knowledge, attitudes, and practice pattern changes. “Imaging Wisely” was developed and co-facilitated by a multidisciplinary team (one each of IM and Radiology faculty, IM and Radiology trainee), pairing radiologists’ content expertise with internists’ contextual expertise. The curriculum (...)

Outcomes and Limitations

Our curriculum improved and sustained learner knowledge about highvalue image ordering. Post-curriculum, mean knowledge scores for appropriate ordering were significantly higher; the ACR AC was more frequently referenced during the open book assessments. Post-curriculum, more residents reported comfort with knowledge...
of exam costs and discussing costs with patients, and rated the value of the ACR AC more highly. All residents rated the curriculum as helpful. Sustained improvement in knowledge...

References (6)

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