A Comprehensive Case-Based Intro to Radiology for Improved Imaging Skills and Appropriate Utilization

University of Florida, Department of Radiology
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Kevin Pierre MD, Abheek Raviprasad BS, Roberta Slater MD, Christopher Sistrom MD PhD, Shyam Sabat MD MBA, Liz Brownlee PA-C, Nina Multak PhD PA-C, Anthony Mancuso MD
Disclosures

• University of Florida Innovate Licensed Technology – WIDI Medical Student Modules (T18942)
Background

• Imaging over-utilization can harm patients and add to the burden on the already overstressed radiology workforce.

• Students in the health professions receive too little radiology education.

• Therefore, it is essential to train current and aspiring health professionals in:
  • imaging interpretation
  • appropriate utilization
Project Overview

• Case-based section on WIDI e-learning platform; ~140 modules encompassing all major organ systems and several imaging modalities.

• Its purpose is to teach:
  • how imaging is used in the workflow of medical decision-making.
  • basic imaging interpretation skills.
  • imaging findings that are tested on licensing exams (USMLE, COMLEX).

• Target audience
  • Medical students
  • PA students
  • First-year radiology residents
  • Non-radiologist clinicians
UF WIDI CBIR e-learning modules

Case Components
- Patient history
- Physical exam
- Relevant labs
- ACR appropriateness criteria
- Key images & full Visage DICOM sets
- Video explanations
- Radiology reports
- Learning points & socioeconomic factors

Learning Process
- Make provisional diagnosis
- Select appropriate imaging
- Assess imaging findings
- Determine acuity & need for further imaging
- Make final diagnosis
- Devise assessment & plan

- An educator guide is available to help with case selection
Try it!

https://widionline.xray.ufl.edu/learn/case-based-intro-to-radiology
Focus group results

- Surveyed: 20 MD, PA, PhD, undergraduate students.
- Positive feedback:
  - Enhanced imaging interpretation skills.
  - Complemented existing curricula.
  - Fostered critical thinking.
  - Detailed clinical and imaging content.
- Rated:
  - High module quality and content.
  - Videos and understanding as very good.
  - Modules’ length and information as appropriate.
- Preference: Flipped classroom/proctored didactic over traditional methods.
Next steps

• Implement external peer review.
• Collaborate with UF PA school for outcomes studies.
  • Note: They have integrated our modules into their curriculum.
References


Thank you