**What is R-SCAN?**

- An American College of Radiology (ACR) collaborative project sponsored by the Centers for Medicare and Medicaid, Transforming Clinical Practice initiative (TCPi) in which radiologists and referring clinicians work to improve imaging appropriateness centered on a mutually agreed upon Choosing Wisely topic.
- A mechanism to improve communication between referrers and specialists by encouraging the use of nationally vetted appropriateness criteria designed to optimize imaging, lower cost, and reduce unnecessary imaging.
- An impetus for enhanced consultation and communication to improve collaboration between members of the healthcare team to support better patient care using this web-based, self-contained program.
- An opportunity for radiologists and referring physicians to gain experience with imaging clinical decision support.

**Objective:** Describe results of an R-SCAN collaboration by physicians affiliated with a suburban Philadelphia hospital.

**Background:** Emergency and radiology physicians engaged in an R-SCAN collaboration to improve the ordering of CT angiography (CTA) exams for suspected pulmonary embolism (SPE). Imaging exams ordered for this clinical indication were reviewed retrospectively using evidenced-based guidelines before and after an educational intervention.

**Results:**

- **Baseline Cases:**
  - Number of exams ordered: 84
  - Average exam value rating: 15.4
  - Exams ordered rated: >=7: 31 (37%)
  - Exams ordered rated: 4, 5, and 6: 20 (24%)
  - Exams ordered rated: <=3: 33 (39%)

- **Post-Education Cases:**
  - Number of exams ordered: 90
  - Average exam value rating: 7.13
  - Exams ordered rated: >=7: 61 (68%)
  - Exams ordered rated: 4, 5, and 6: 16 (18%)
  - Exams ordered rated: <=3: 13 (14%)

**USE OF IMAGING CLINICAL DECISION SUPPORT IN R-SCAN**

- R-SCAN provides participants access to ACR Select, a clinical decision support tool furnished by the National Decision Support Company.
- ACR Select delivers evidence-based guidelines developed by the ACR’s Appropriateness Criteria program in an electronic format.
- The guidelines assist referring clinicians make the best imaging exam ordering decisions for their patients.

**CTA FOR PULMONARY EMBOLISM:**

Dont perform chest CT angiography to evaluate for possible pulmonary embolism in patients with a low clinical probability and negative results of a highly sensitive D-dimer assay.

**Patient Engagement:** Choosing Wisely® materials about the benefits and risks of imaging were discussed with the patient as part of a Patient Engagement Initiative.

**Conclusion:** R-SCAN collaborations can improve imaging care significantly and justify program expansion to a primary care collaborative. Patient perceptions about shared decision making are under review with results anticipated for January.