

eHealth Initiative: Creating a Continuum of Seamless Care Heart Health

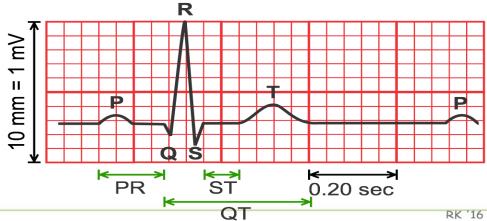
William T. Thorwarth Jr. MD, FACR CEO, American College of Radiology October 17, 2017

DISCLOSURES

No financial disclosures

But

I must disclose that I am VERY HAPPY to be here with all of you today and have gained a whole new respect for the resting ECG

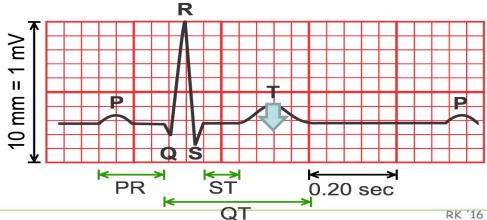


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BENEFITTED FROM BOTH CARDIOLOGY AND RADIOLOGY CARE

Sequence:

- Flat T waves on resting EKG at routine PE Int. Med.
- Treadmill stress test w/o imaging ST segments drop Cardiology
- CCTA "complete" LAD occlusion with collaterals Radiology
- Lt. Heart cath confirmed complete LAD and mild Lt. main -Cardiology
- Stress cardiac MRI No infarct but ischemia with stress cardiology
- Post bypass CXR radiology

The Challenge

"Despite wondrous advances in medicine and technology, health care regularly fails at the fundamental job of any business: to reliably deliver what its customers need."

Lee and Cosgrove
Engaging Doctors in the Healthcare Revolution
HBR June 2014

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The Transformation of Diagnostic Radiology in the ACO Era

As health care undergoes fundamental redesign orga- nized around increasing the value of care for popula- tions, most of the discussion has focused on primary care and its role in managing the care of these populations. Relatively less attention has been given to specialty care population management, especially for hospital-based specialties such as diagnostic radiology. In radiology, an analysis of such a change is important and similar is- sues likely apply to other specialist activities as well.

Technological advances in diagnostic radiology have fueled growth in its clinical applications and use. A pre-dictable but unwanted consequence is that diagnostic radiology has been an important driver of health care costs, 1 creating an apparent dilemma for the specialty. Specifically, should radiologists be advocates of broader use of these potentially life-saving technologies or should they be gatekeepers who take responsibility to control access and costs?

This apparent dilemma creates a false choice for the profession; the former role abdicates the patient care responsibility of the radiologist as a physician, while the latter creates an adversarial relationship between radi- ologists and other physicians. Rather, radiology and other technologydependent fields should focus on how to maximize the value of medical imaging (and other tests and procedures) by becoming integrated better into pa-tient care. By being members of care delivery teams, spe-cialists in these disciplines can recommend strategies that maximize the benefits of medical imaging while minimizing the risks and costs.

In a traditional fee-for-service reimbursement environment, the increase in clinical use of diagnostic imaging services coupled with generous payment rates has contributed to substantial growth in the clinical rev- enues generated by these services. These revenues be-came important contributors to the financial vitality of hospitals and physician practices. However, diagnostic radiology was correspondingly identified as a driver of increased health care costs. In 2006, Iglehart re-ported

vices. Insurance coverage of the newest emerging imaging technologies and novel image-guided interven-tional services has slowed. The combined effect of these actions has been powerful-the utilization and aggre- gate cost of imaging services peaked in 2008 and both have declined substantially from 2009-2013.3 Despite these reductions, in a fee-for-service payment model, imaging services continue to be a 'profit center' (albeit, a smaller one) for most hospitals and other health care centers.

As part of the national and regional health care re-form debates, many leading policy makers have advo-cated a major shift in the method for payment for medi- cal services-moving away from fee-for-service medicine and toward bundled or capitated payments to hospi- tals and physicians for managing the health of a de-fined population of patients. The creation of account- able care organizations (ACOs) is one example of this model of payment. If fully implemented, such a pay- ment system shift would convert diagnostic imaging from a profit center to a cost center. Such a shift would give health systems an economic incentive to reduce fur- ther the use of diagnostic imaging and encourage use of potentially less efficacious alternatives.

Many hospitals and physicians who provide diag- nostic imaging and image-guided interventional ser- vices live in a mixed payer environment, in which some activities are paid on a fee-for-service basis and others become part of risk-based contracting. Both payment models have staying power in the ACOs of the future.

Radiologists and their affiliated institutions, there-fore, face a challenging and often paradoxical set of care delivery and margin-generating issues. Tilting in either direction (eg. do more or do less) creates a potentially serious moral and financial dilemma for radiologists and their institutions. Beyond potentially causing 1000 and the fare of the state of the and the health sys- tem, contradictory financiarincentives leaning of Radiology more in a fee-for-service environment vs doing less in a risk-

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IMAGING 3.0: A NEW APPROACH



Defining Healthcare Value

<u>Outcome</u>

Value =

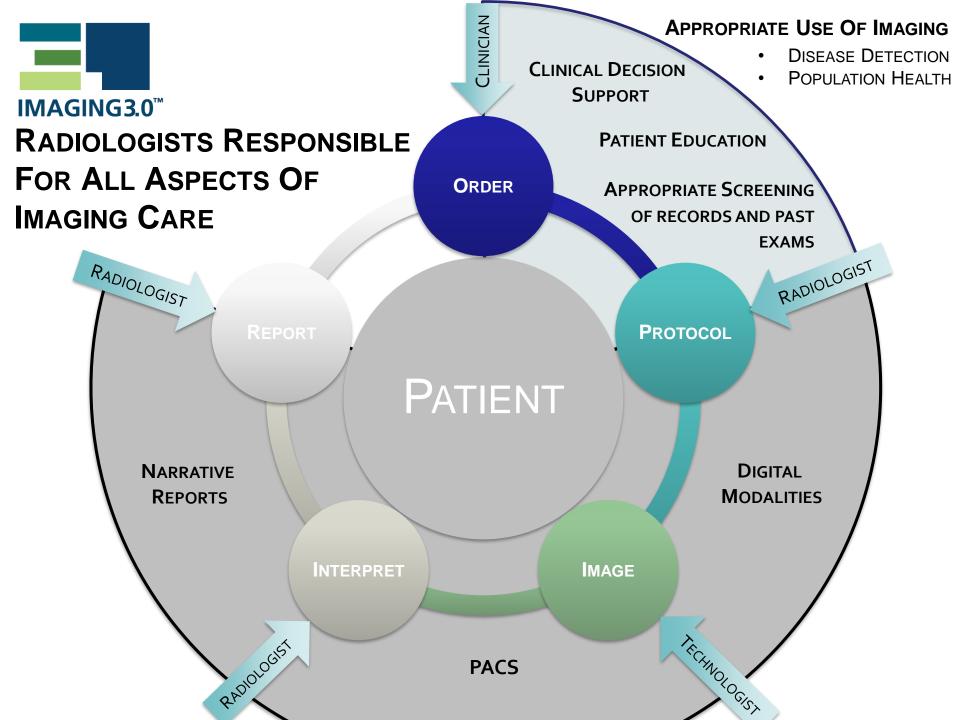
Cost

X Appropriateness

If appropriateness is low, value is low!

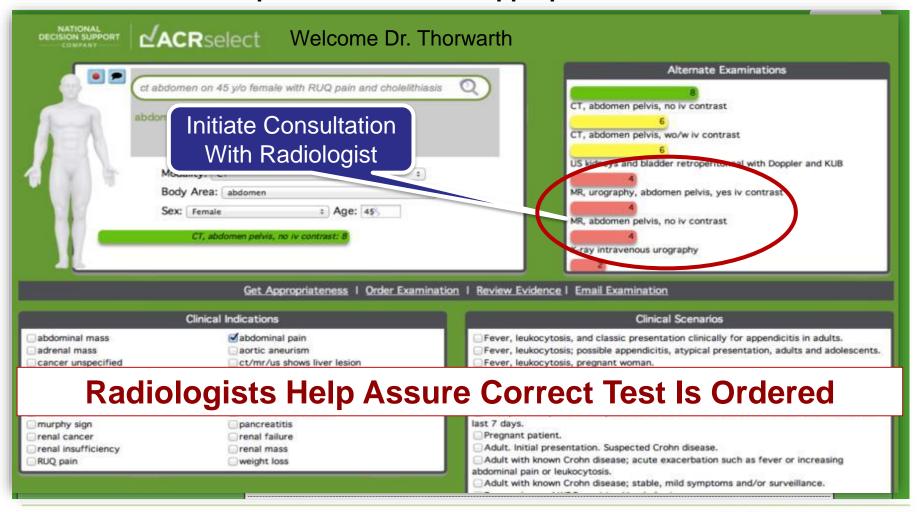
GUIDING APPROPRIATE IMAGING EVALUTION

- Both ACR (24 years) and ACC have been developing Appropriate Use Criteria (AUC) for years
- Needed "point of care" guidance
- PAMA 2014 Mandates AUC consultation
- Both ACR and ACC have been approved as "qualified Provider Led Entities"
- Both sets of AUC in widespread use but waiting final CMS implementation 1/1/19

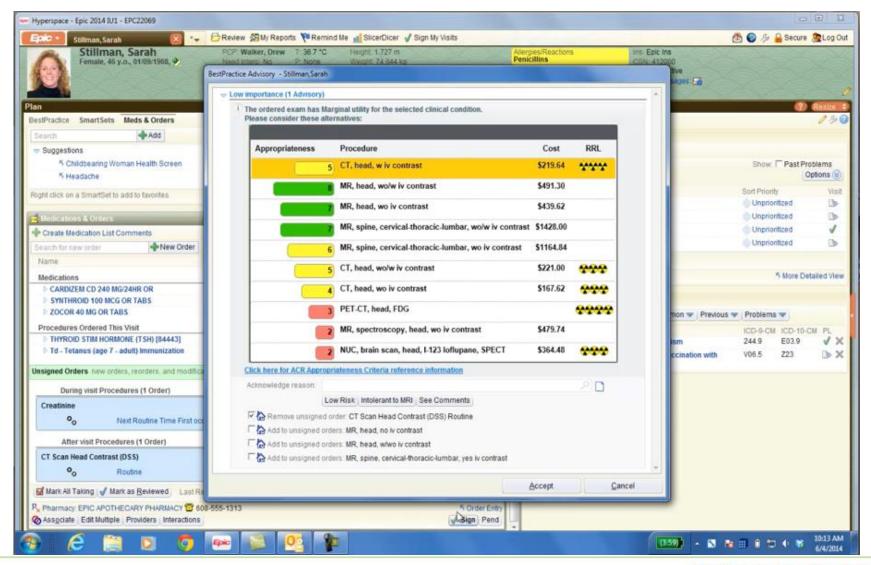


WEB-BASED USER INTERFACE

Developed From The ACR Appropriateness Criteria



Workflow Integration - Epic



ACR APPROPRIATENESS CRITERIA

STUDY QUALITY REPORT – 5,962 REFERENCES



- 97% of AC developed guidelines are informed by Category 1 or Category 2 references
- 3% INFORMED BY ONLY CATEGORY 3 REFERENCES
- None informed by only Category 4 references

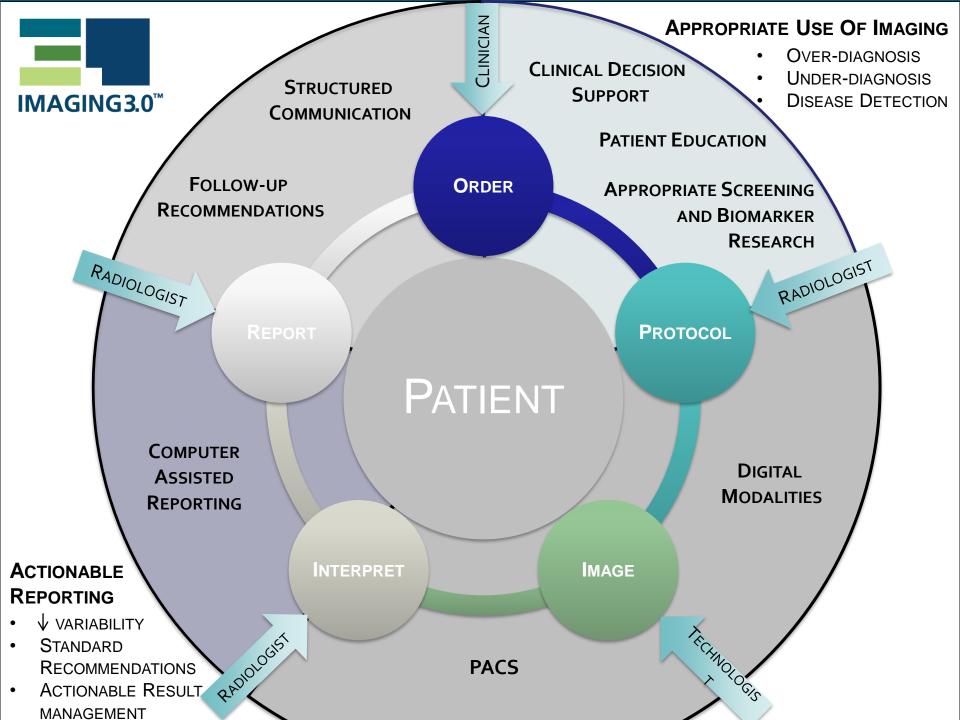
2012 IOM REPORT: BEST CARE AT LOWER COST



FIGURE: A Continuously Learning Health Care System

Decision support tools and knowledge management systems can be included routinely in health care delivery to ensure that decisions are informed by the best evidence.

OF THE NATIONAL ACADEMIE



WORKING TOGETHER

< Previous Article December 2016 Volume 13, Issue 12, Part A, Pages 1458–1466.e9</p>

Next Article >

CAD-RADS™: Coronary Artery Disease – Reporting and Data System

An Expert Consensus Document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Radiology (ACR) and the North American Society for Cardiovascular Imaging (NASCI). Endorsed by the American College of Cardiology

Ricardo C. Cury, MD, Suhny Abbara, MD, Stephan Achenbach, MD, Arthur Agatston, MD, Daniel S. Berman, MD, Matthew J. Budoff, MD, Karin E. Dill, MD, Jill E. Jacobs, MD, Christopher D. Maroules, MD, Geoffrey D. Rubin, MD, Frank J. Rybicki, MD, PhD, U. Joseph Schoepf, MD, Leslee J. Shaw, PhD, Arthur E. Stillman, MD, Charles S. White, MD, Pamela K. Woodard, MD, Jonathon A. Leipsic, MD

SUMMARY

- Appropriate use of imaging is the objective of all
- Both radiology (ACR) and cardiology (ACC) have prioritized this effort
- Guidance to evidence based recommendations must be seamless at point of care
- Reporting must also be standardized to provide consistent actionable recommendations.

THANKS

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