

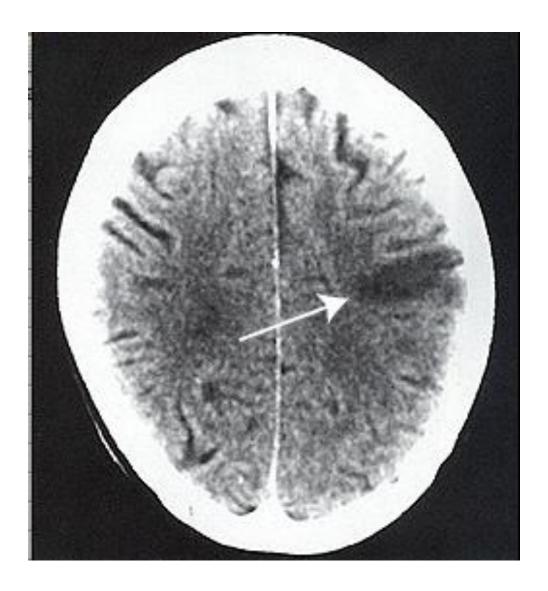


Reimbursement of Imaging for Cancer Screening: What Are the New Imaging 3.0 Models That Will Solve Our Problems?

GERALDINE MCGINTY, MD, MBA, FACR CHAIR, ACR COMMISSION ON ECONOMICS MARCH 20TH 2014

The value of imaging

- Improved diagnosis to guide treatment
- Earlier detection
- Reduction in more invasive procedures
- More effective surgical planning









Patients Imaged Early During Admission Demonstrate Reduced Length of Hospital Stay: A Retrospective Cohort Study of Patients Undergoing Cross-Sectional Imaging

Juan C. Batlle, MD, MBA, Peter F. Hahn, MD, PhD, James H. Thrall, MD, Susanna I. Lee, MD, PhD

Conclusion: Early imaging with CT, MRI, or nuclear scintigraphy, particularly on the day before or the day of admission, was associated with significantly shorter lengths of stay of inpatients compared with patients who underwent advanced imaging later.

Key Words: Utilization, cross-sectional imaging, length of stay, inpatient

J Am Coll Radiol 2010;7:269-276. Copyright © 2010 American College of Radiology

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Physicians' Views Of The Relative Importance Of Thirty Medical Innovations

Click on image to view larger version.

EXHIBIT 3 Mean Response And Ranking Of Physicians' Ratings O

Rank	Innovation	Mean score ^a
1	MRI and CT scanning	0.878
2	ACE inhibitors	0.767
3	Balloon angioplasty	0.758
4	Statins	0.736
5	Mammography	0.733

This Article Health Aff September 200 20 no. 5 30-42 Abstract Figures Only Full Text PDF



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TRAVEL OPINION





This story is part of **HEALTH AND WELLNESS**

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Fish may help maintain brain volume, function, with age

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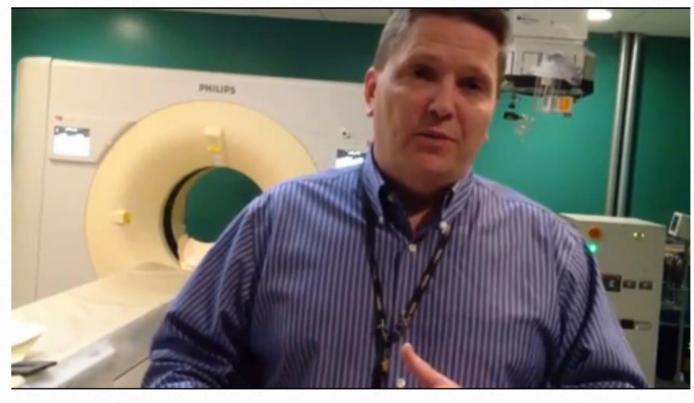
82







Experts weigh risks of CT scans



Chris Gilmer of Greenville Hospital System in South Carolina talks about CT scans. The Greenville, S.C., News

Liv Osby, Greenville (S.C.) News

12:35 p.m. EDT March 21, 2013

The scans typically deliver about 70 times the radiation of normal Xrays.





THE AMERICAN JOURNAL of MEDICINE BLOG

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Commentary

Drugs

Prevention

Diagnostic Imaging: Powerful, Indispensable, and Out of Control

JANUARY 27, 2012 1 COMMENT

Reality is never quite as simple as it seems. For all the good that imaging has done, it has come with significant costs: exorbitant financial costs to individual patients and society, and personal health costs to patients through over-diagnosis, over-radiation, and over-treatment.

At iccua in any ravious of the appropriatenace of imaging utilization are the various interacts



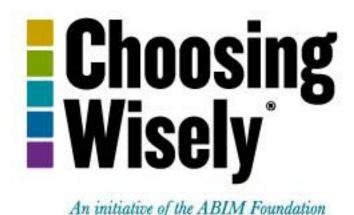


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Radiation Safety in Adult Medical Imaging

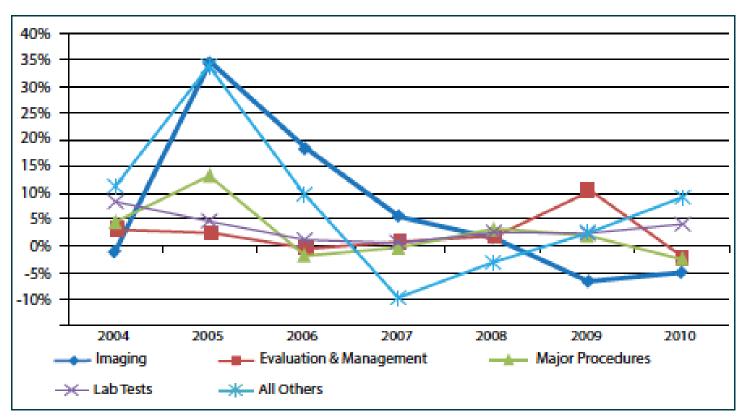


Figure 1. Medicare Part B annual rate of growth in assigned services by procedure category.

Source: Analyses at the Neiman Health Policy Institute using data from the Medicare Physician/Supplier Procedure Summary (PSPS) annual master files 2003 to 2010; the enrollment data from CMS, Medicare & Medicaid Research Review; and the 2011 Statistical Supplement.

Where is imaging currently used for screening?

- Mammography for breast cancer
- Ultrasound for aortic aneurysm
- Nuchal fold measurement
- CT colonography
- Low dose CT for lung cancer

How to maximise the value of imaging based screening

- Appropriate patient selection
- Standardise delivery of imaging and reporting
- Standardise follow up according to evidence based guidelines
- Track outcomes and use results to further optimise the program

Imaging 3.0 is a change process led by the ACR for the field of radiology. It includes a set of technology tools that equip 21stcentury radiologists to ensure their key role in evolving health care delivery and payment models and quality patient care.

The value of radiologISTS

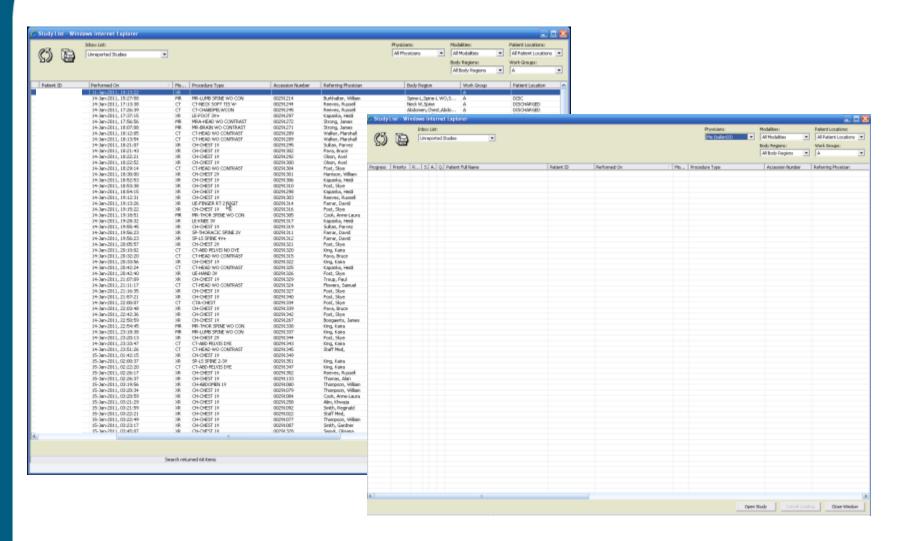
- Radiologists have been invisible
- Advances in technology and productivity have kept us "in the dark"
- Patients don't know we exist
- Maybe we haven't been as welcoming as we should have?
- Risk of commoditization

Imaging 2.0



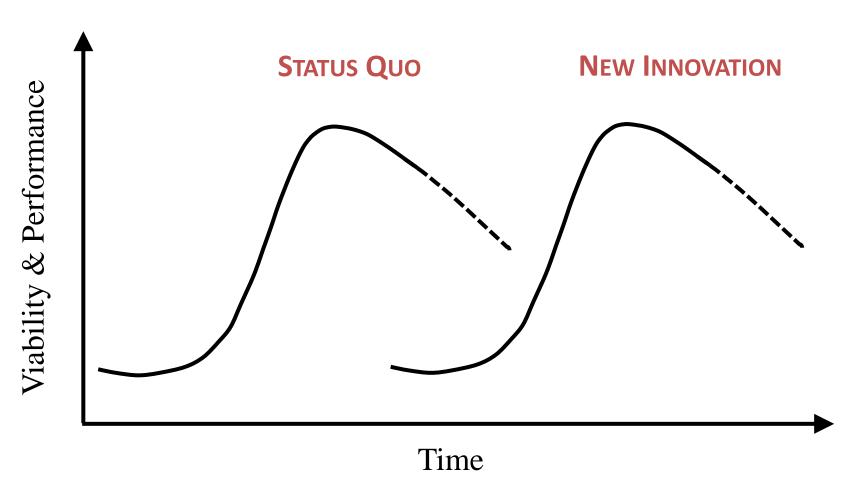
FOCUS ON THE INTERPRETATION

Imaging 2.0 – Radiology Culture



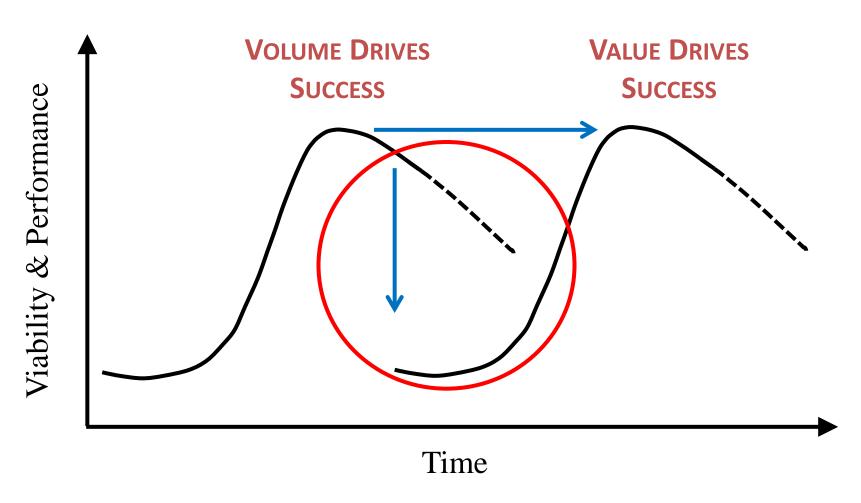


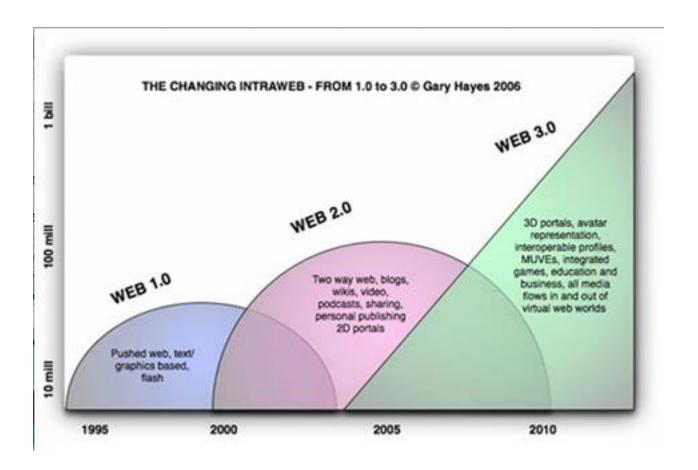
Innovator's Dilemma



Adapted from James Reinertsen, "Possible or Passable?", 2012.

Transition to Value Based Imaging Care





Medical Imaging



Imaging 3.0
Evolution in Patient Care

Medical Imaging

Evolution in Patient Care

A New Kind of Ray

A New Kind of Ray

The Early Years

- · Sideshows
- · Photography
- · Medical Applications

1896 to 1920



Medical Imaging

Evolution in Patient Care

IMAGING 1.0

A New Kind of Ray

IMAGING 1.0

Imaging in Medical Care

- Physicians
- Contrast Agents
- New Modalities

1920 to 1990



Medical Imaging

Evolution in Patient Care

IMAGING 2.0

IMAGING 1.0

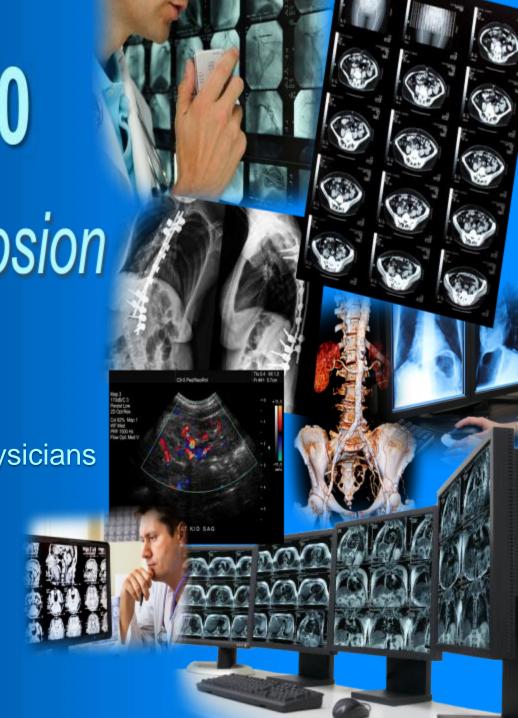
A New Kind of Ray



Technology Explosion

- Evolving Modalities
- PACS
- Knowledge Base
- Consultant to Referring Physicians
- Unprecedented Demand

1990 to Present



Medical Imaging

Evolution in Patient Care



IMAGING 2.0

IMAGING 1.0

A New Kind of Ray

IMAGING 3.0



Blueprint for High Value Care

Beyond Interpretations

- Assuring Appropriateness
- Documenting the Quality and Patient Safety Radiologists Provide
- Actionable Reporting with Evidence-based Follow-up Recommendations
- Empowered Patients

2013 and Beyond





IMAGING 3.0



Leveraging radiologists' tools and expertise to optimize patient care from the time imaging is first considered until referring physicians and patients fully understand the imaging results and recommendations

IMAGING 3.0



- Maximizing Radiologists' Value
- Collaborating with Other Physicians to Improve Imaging Care
- Empowering Patients



Imaging 3.0 – Under the Umbrella





Imaging History Reviewed in PHR













Imaging Acquisition & Interpretation













PQRS

Learning Through Maintenance of Certifications





Actionable Recommendations For The Patient And Referring Physician

Radiology Order Entry With Decision Support: Initial Clinical Experience

Decision Support for Results Reporting



Media Rich **Actionable Reporting**







Applying Imaging 3.0 to screening for lung cancer with low dose CT

- Appropriate patient selection
 - Smokers
 - Documentation or administration of smoking cessation counselling
 - Balance overdiagnosis with underdetection
- Standardise delivery of imaging and reporting
 - Accreditation process, optimized protocols
 - Radiologist education
 - Structured reporting like BIRADS
 - Manage incidental findings

Applying Imaging 3.0 to screening for lung cancer with low dose CT

- Standardise follow up according to evidence based guidelines
 - Minimise potential harms
 - Optimize value to healthcare delivery system and Society
- Track outcomes and use results to further optimise the program
 - Geographic variations
 - Further characterization of lesions

The Future Of Imaging Care

Today: IMAGING 2.0	Tomorrow: IMAGING 3.0™
Volume-based	Value-based
Transactional	Consultative
Radiologist centered	Patient centered
Interpretation focused	Outcomes focused
Commoditized	Integral
Invisible	Accountable

Summary

- Imaging 3.0 is a powerful message of change for radiologists
- Screening with imaging embodies the principles of Imaging 3.0
- Imaging 3.0 delivers the highest value imaging care and puts patients at the center of the delivery process