The Office of the National Coordinator for Health Information Technology

Health IT & CDS:

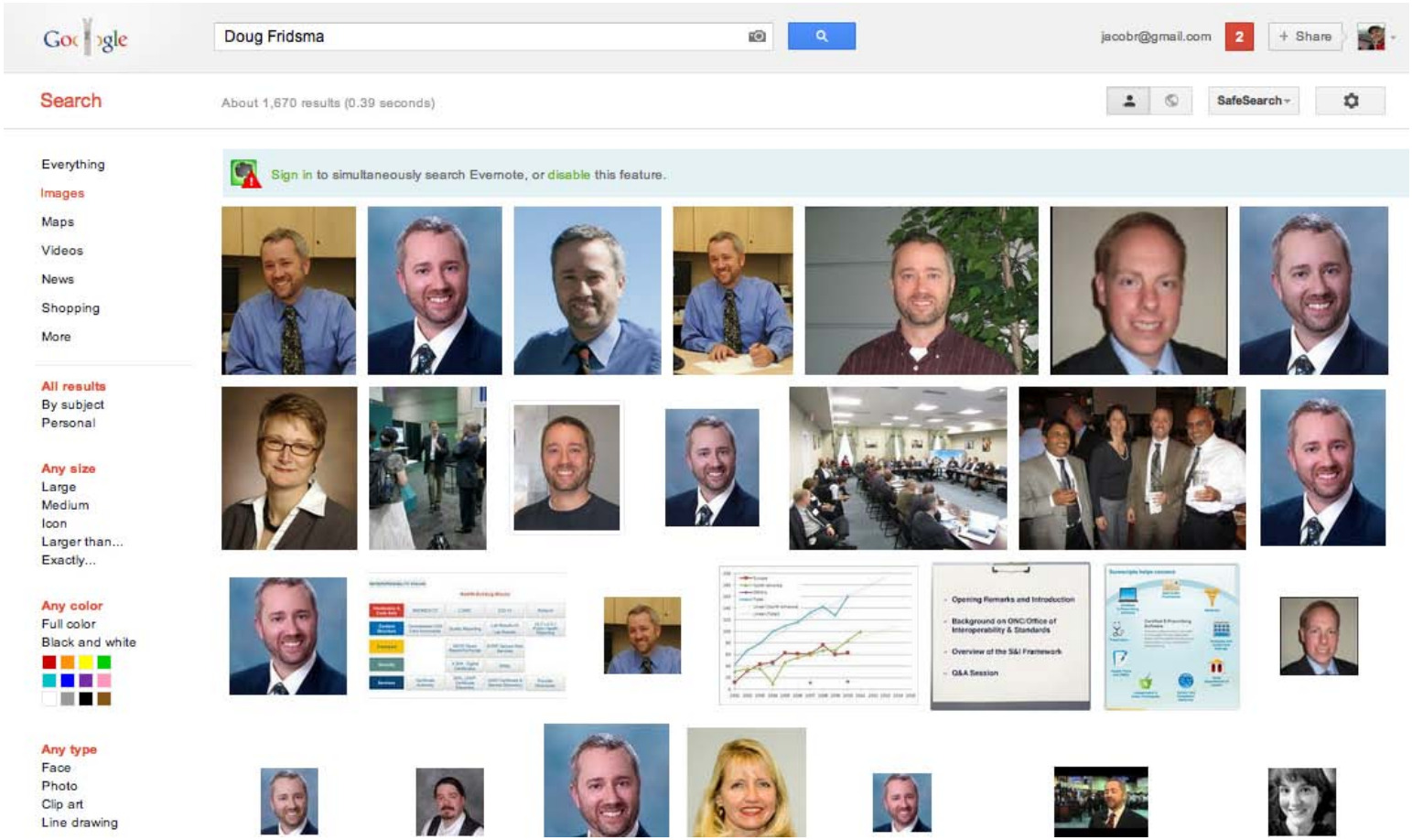
Where we are & what's next?

Jacob M Reider MD
Senior Policy Advisor, ONC

April 24, 2012

Putting the I in HealthIT
www.HealthIT.gov

Doug Fridsma image search



Doug Fridsma Image Search

Page 4

Doug Fridsma?

Self Identity?

Summary Edit

Husband
Parent
Brother
Son
Family Physician
Medical Blog Pioneer
Health IT Visionary
Medical Educator
Usability Fanatic
Health Reform Advocate

Specialties
Finding benevolence in business.

Doing the right thing

Experience + Add a position

Senior Policy Advisor, Office of the National Coordinator for Health IT Edit
US Department of Health and Human Services
Government Agency; 10,001+ employees; Government Administration industry
2011 – Present (1 year) | Washington DC
Provide a brief description | Ask for recommendations

BETA

HEALTHGRADES
GUIDING AMERICANS TO THEIR BEST HEALTH®

DOCTORS DENTISTS HOSPITALS

Doctor Name or Specialty | Germantown, MD 208

Back to Search Results | Home › Search Results › Provider Profile for Dr. Jacob M. Reider, MD

Get your best doctor match. Use our search tools to filter by quality, patient feedback, insurance and more. Find your best doctor match

Dr. Jacob M. Reider, MD

Recommend +1 0

Family Practice | Board Certified
Male, Age 48, Graduated 1994, Albany Medical College

Delmar Family Medicine
785 Delaware Ave
Delmar, NY 12054
(518) 320-7517
Get Directions

Appointment Prep
- 4 Don'ts for Sensitive Skin
- Taming Rosacea Triggers
- 8 Complications of COPD

ABOUT THIS PROVIDER | BACKGROUND | OFFICES & HOSPITALS | PATIENT SATISFACTION | APPOINTMENTS

PATIENT SATISFACTION
100% patients would recommend Dr. Reider.
(Based on 5 HealthGrades Patient Experience Surveys)
100%
View Survey Results ›
Fill Out a Survey About Dr. Reider ›

AWARDS & RECOGNITIONS
Dr. Reider is a HealthGrades Recognized Doctor.
View Awards & Recognitions ›

BACKGROUND

Specialty
Specialties: Family Practice - Board Certified

More Doctors Like Dr. Reider

Showing 5 doctors who match:
- ✓ Family Doctor
- ✓ Within 25 miles of Delmar, NY 12054

Peter H Forman, MD
Family Doctor
Same location as Dr. Reider
View Profile

Rebecca Jayne Stetzer, MD
Family Doctor
Same location as Dr. Reider

Start-up

EHR Vendor

Healthy People

Health and Human Services

Operating Divisions:

Administration for Children and Families (ACF)
Administration on Children, Youth and Families (ACYF)
Administration on Aging (AoA)
Agency for Healthcare Research and Quality (AHRQ)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
Centers for Medicare and Medicaid Services
Food and Drug Administration (FDA)
Health Resources and Services Administration (HRSA)
Indian Health Service (IHS)
National Institutes of Health (NIH)
National Cancer Institute (NCI)
Office of the Inspector General (OIG)
Substance Abuse and Mental Health Services Administration (SAMHSA)

Staff Divisions:

Assistant Secretary for Administration (ASA)
Assistant Secretary for Financial Resources (ASFR)
Assistant Secretary for Legislation (ASL)
Assistant Secretary for Public Affairs (ASPA)
Assistant Secretary for Planning and Evaluation (ASPE)
Assistant Secretary for Preparedness and Response (ASPR)
Center for Faith-Based and Neighborhood Partnerships (CFBNP)
Departmental Appeals Board (DAB)
Intergovernmental External Affairs (IEA)
Office for Civil Rights (OCR)
Office on Disability (OD)
Office of the General Counsel (OGC)
Office of Global Affairs (OGA)
Office of the Inspector General (OIG)
Office of Medicare Hearings and Appeals (OMHA)
National Coordinator for Health Information Technology (ONC)
Assistant Secretary for Health, Office of the Assistant Secretary for Health (ASH)
Surgeon General

Pumpkin
Meaningful Use of a Pumpkin

THE INSPECTION STORE
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IAN FLEMING'S

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Certified Health IT Product List

The Office of the National Coordinator for Health Information Technology

HealthIT.HHS.Gov

The Certified HIT Product List (CHPL) provides the authoritative, comprehensive listing of Complete EHRs and EHR Modules that have been tested and certified under the Temporary Certification Program maintained by the Office of the National Coordinator for Health IT (ONC). Each Complete EHR and EHR Module listed below has been certified by an ONC-Authorized Testing and Certification Body (ONC-ATCB) and reported to ONC. Only the product versions that are included on the CHPL are certified under the ONC Temporary Certification Program.

Please send suggestions and comments regarding the Certified Health IT Product List (CHPL) to ONC.certification@hhs.gov, with "CHPL" in the subject line.

Vendors or developers with questions about their product's listing should contact the ONC-Authorized Testing and Certification Body (ONC-ATCB) that certified their product.

USING THE CHPL WEBSITE

To browse the CHPL and review the comprehensive listing of certified products, follow the steps outlined below:

1. Select your practice type by selecting the Ambulatory or Inpatient buttons below
2. Select the "Browse" button to view the list of CHPL products

To obtain a CMS EHR Certification ID, follow the steps outlined below:

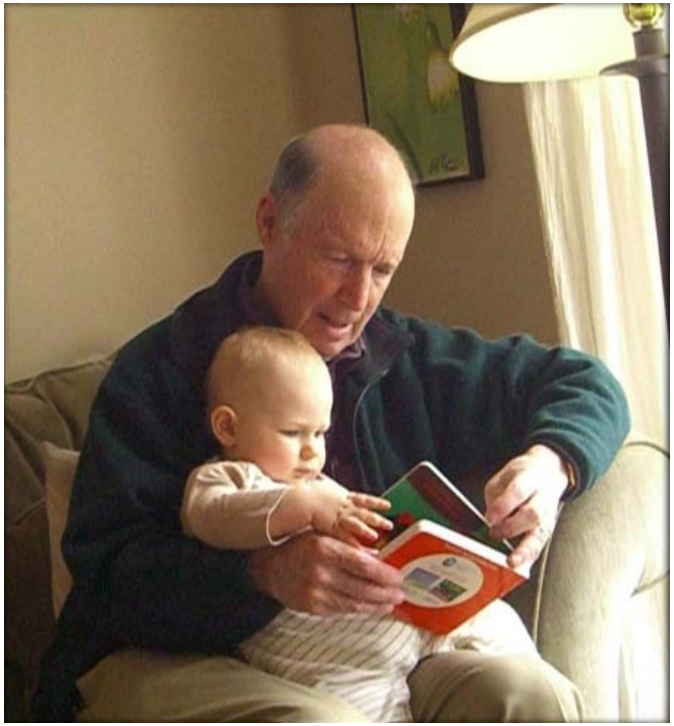
1. Select your practice type by selecting the Ambulatory or Inpatient buttons below
2. Search for EHR Products by browsing all products, searching by product name or searching by criteria met
3. Add product(s) to your cart to determine if your product(s) meet 100% of the required criteria
4. Request a CMS EHR Certification ID for CMS registration or attestation from your cart page

STEP 1: SELECT YOUR PRACTICE TYPE

Ambulatory Practice Type | **Inpatient Practice Type**

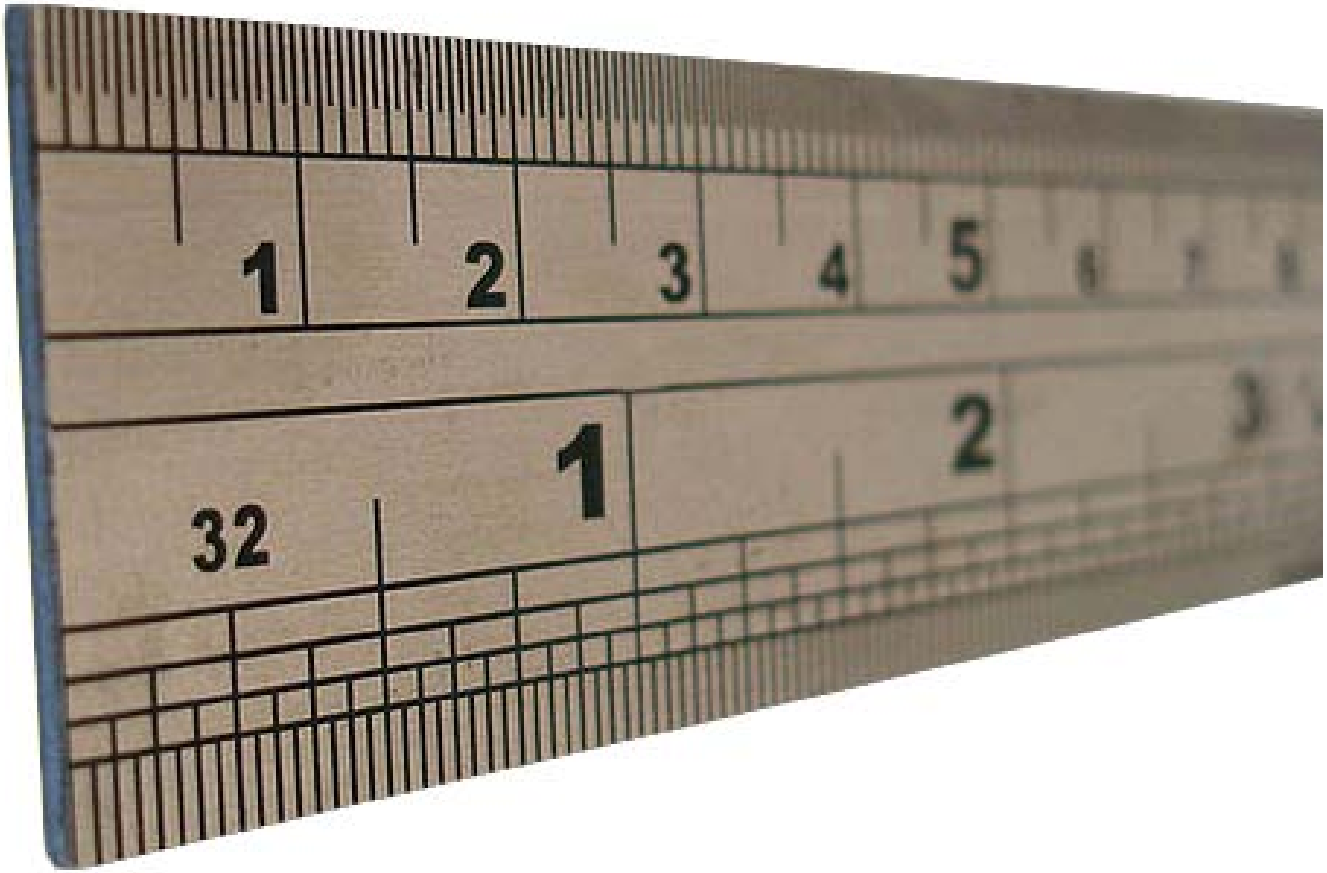
ONC Principles

- Five key principles for ONC:
  1. *"Be a **worthy steward** of the country's money and trust."*
  2. *"Focus on **outcomes**."*
  3. *"Build boldly on **what works**."*
  4. *"Foster **innovation**."*
  5. *"Support Health IT benefits for **all**."*



Put individuals and their interests at the center of everything we do

Measurement



Clinical Quality Measures – on paper

Quality Measures

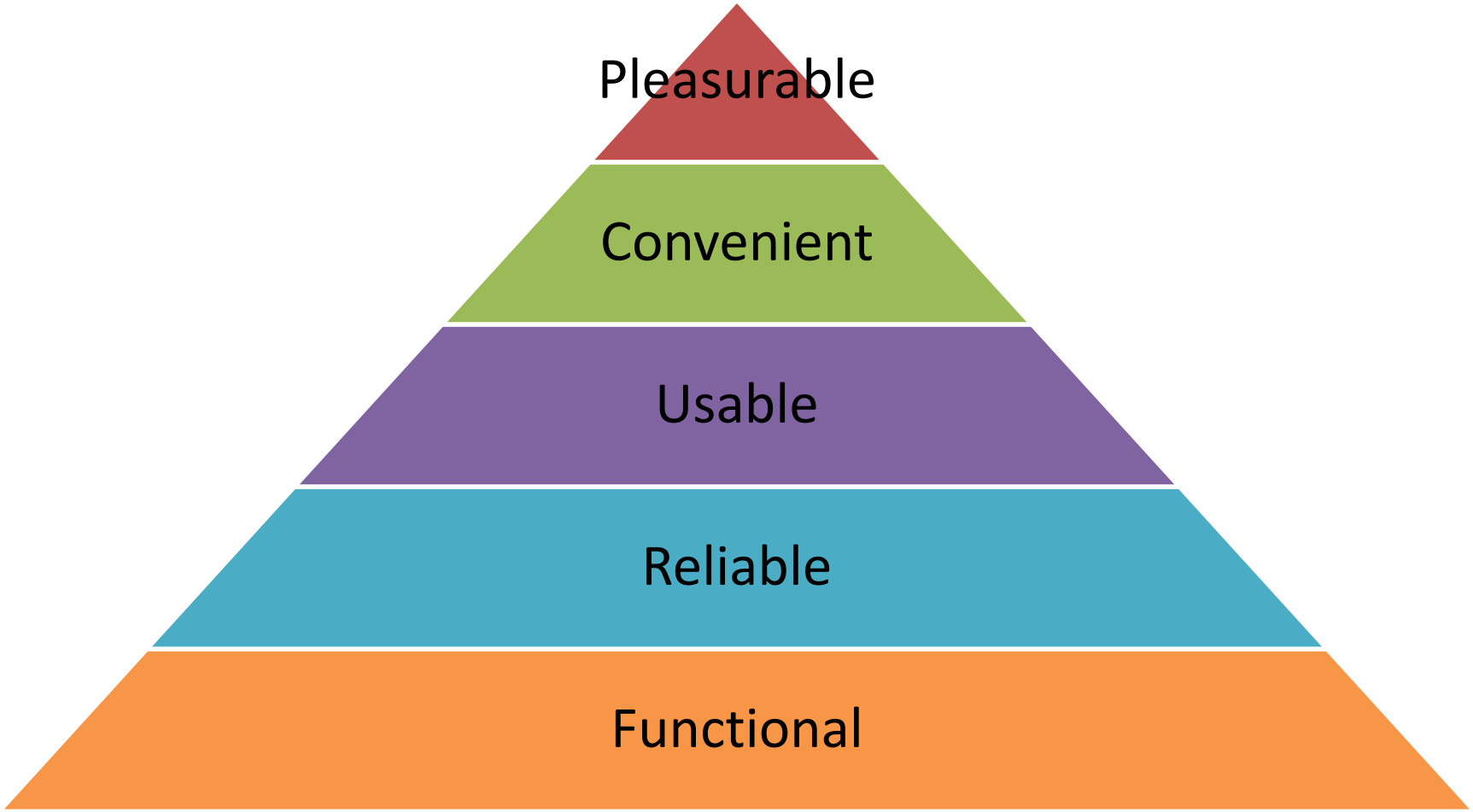
Clinical Decision Support

The other CDS: Consumer Decision Support

Research
• What's happening?
Guidelines
• What SHOULD Happen
CDS
• It will happen
Quality Measures
• Did it happen?

Knowledge Lifecycle

Usability

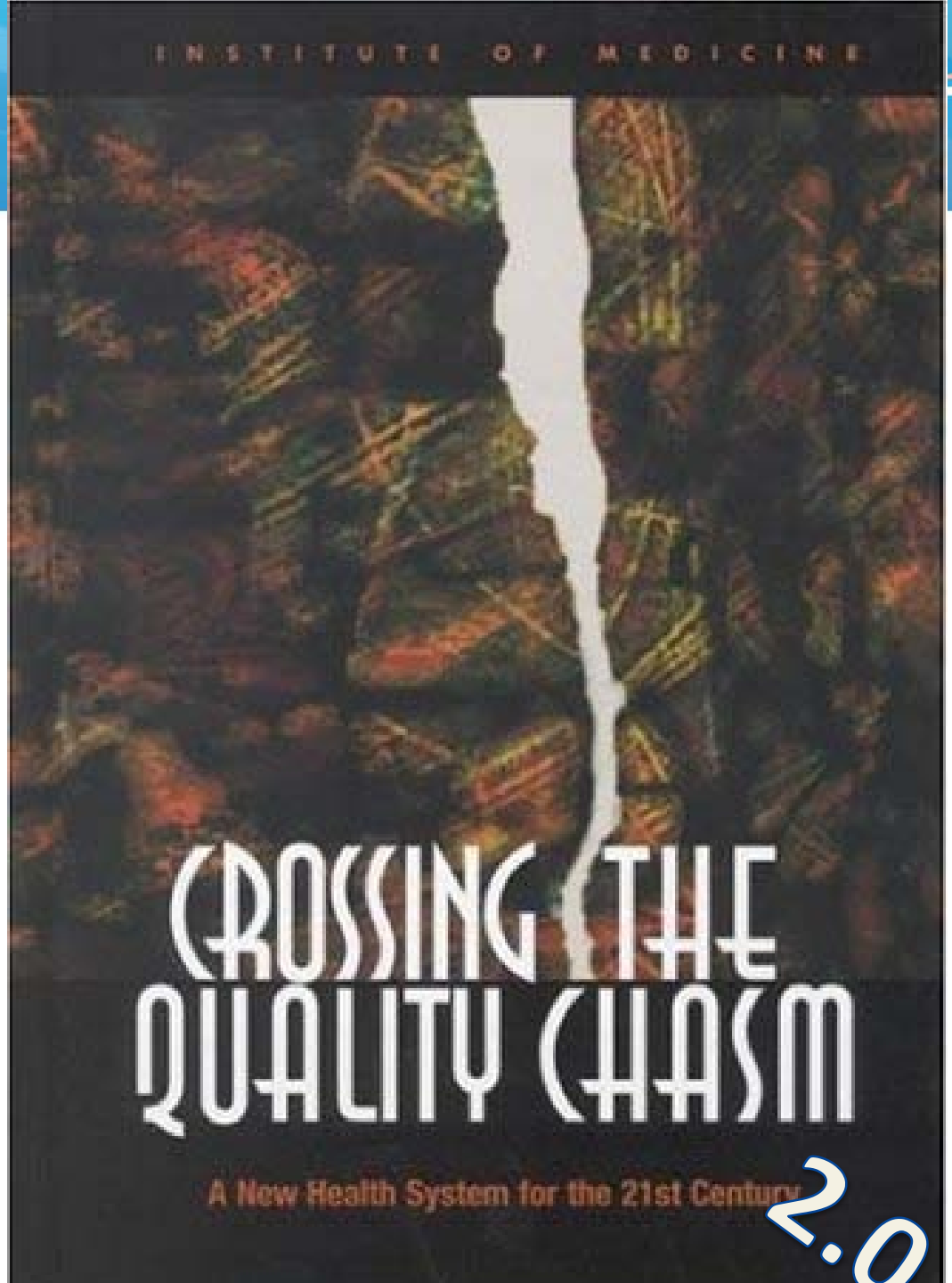


DEF
ABC
GHI
I
JKL
5
AREA
CODE
MNO
6
PRS
7
8
TUV
9
WXY
0
OPERATOR

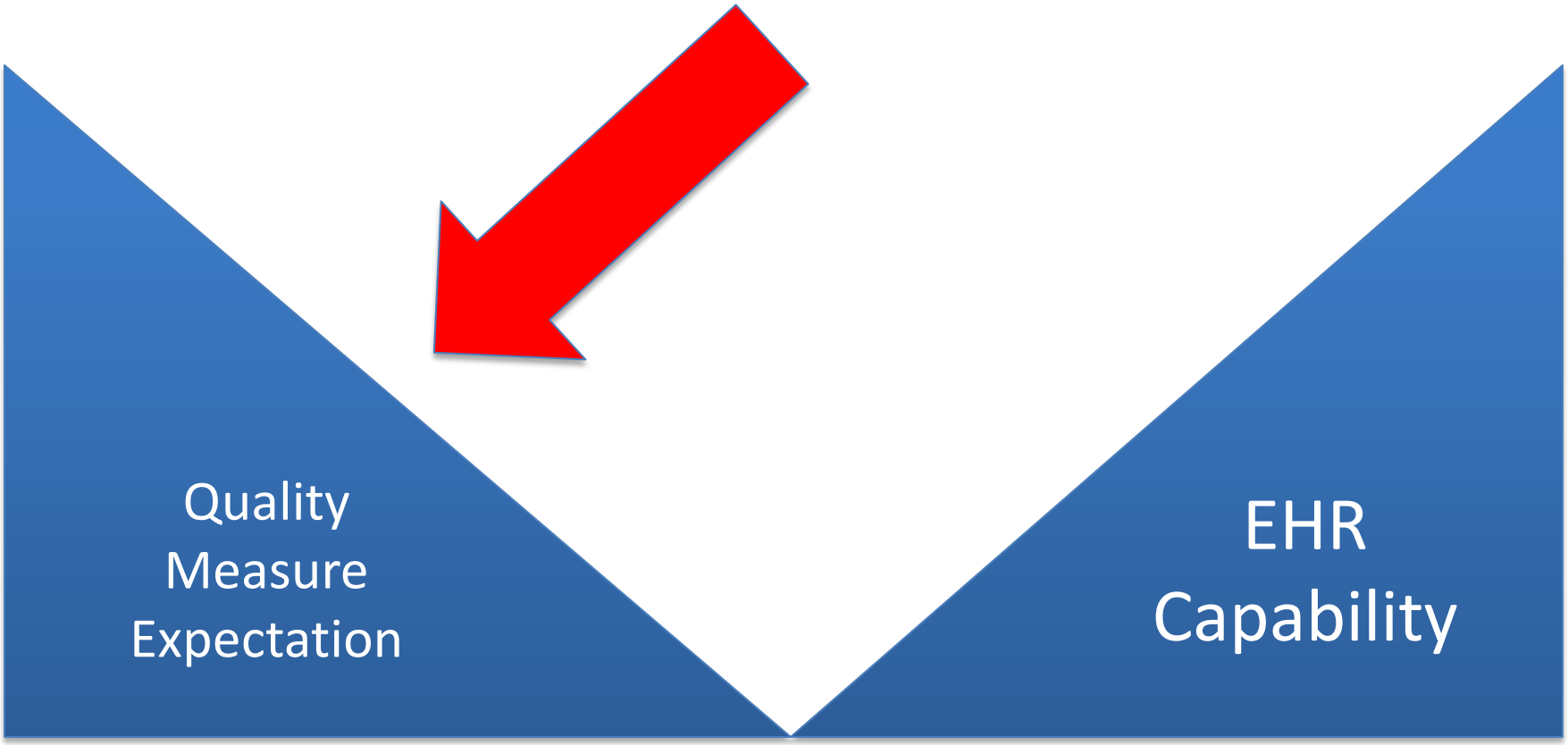
MOTOROLA
1
4 GHI
2 ABC
7 PRS
5 JKL
3 DEF
8 TUV
6 MNO
RCL
0 OPR
9 WXY
PWR
STO
FCN
CLR
SND
NAMES (MENU)
END

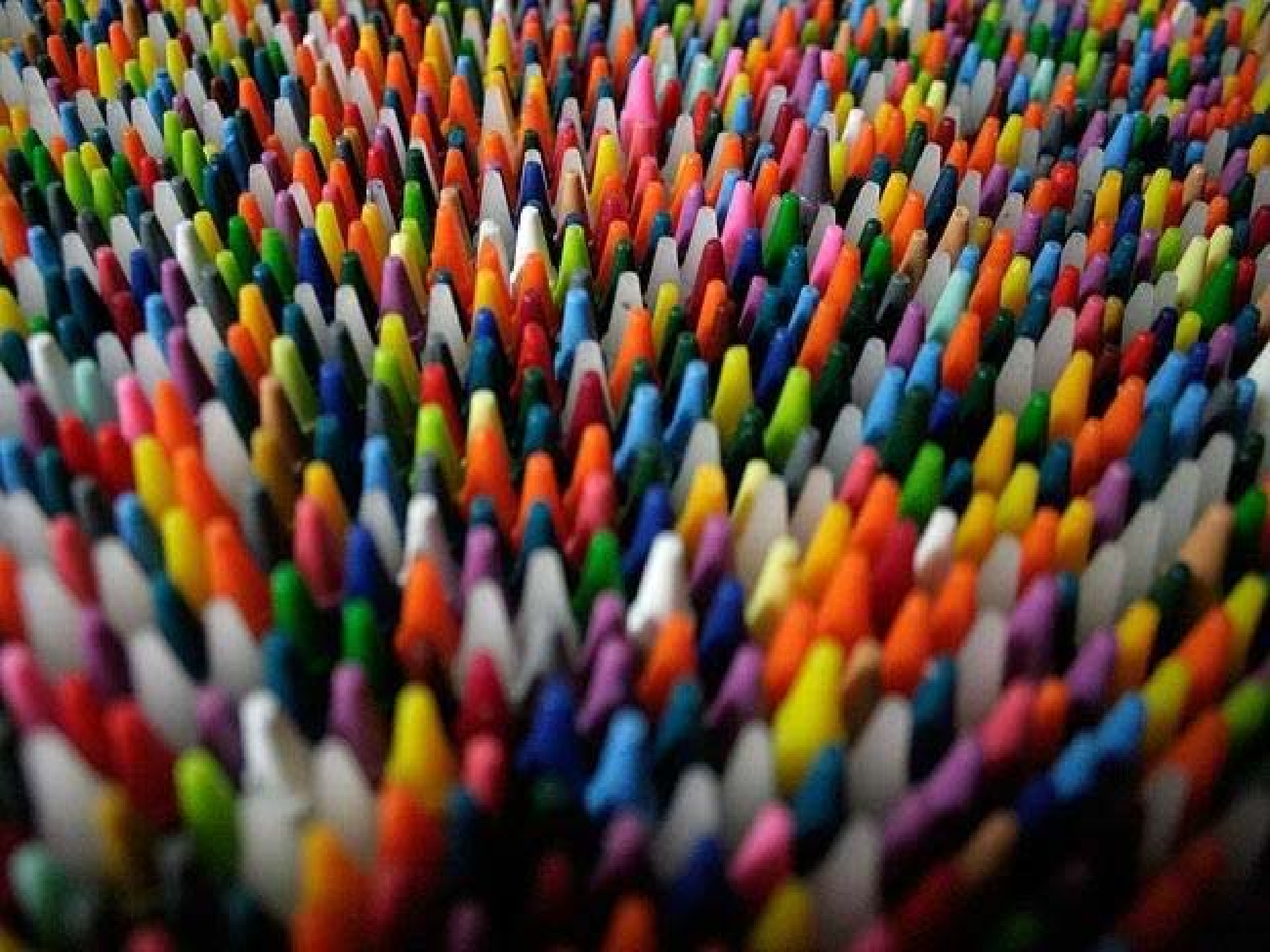
cingular
12:34 PM
SMS
Text
9
Calendar
Photos
Camera
Calculator
Stocks
Maps
Weather
Notes
Clock
Settings

SERVICE


INSTITUTE OF MEDICINE
CROSSING THE QUALITY CHASM
A New Health System for the 21st Century
2.0

Quality (measurement) Chasm 2.0

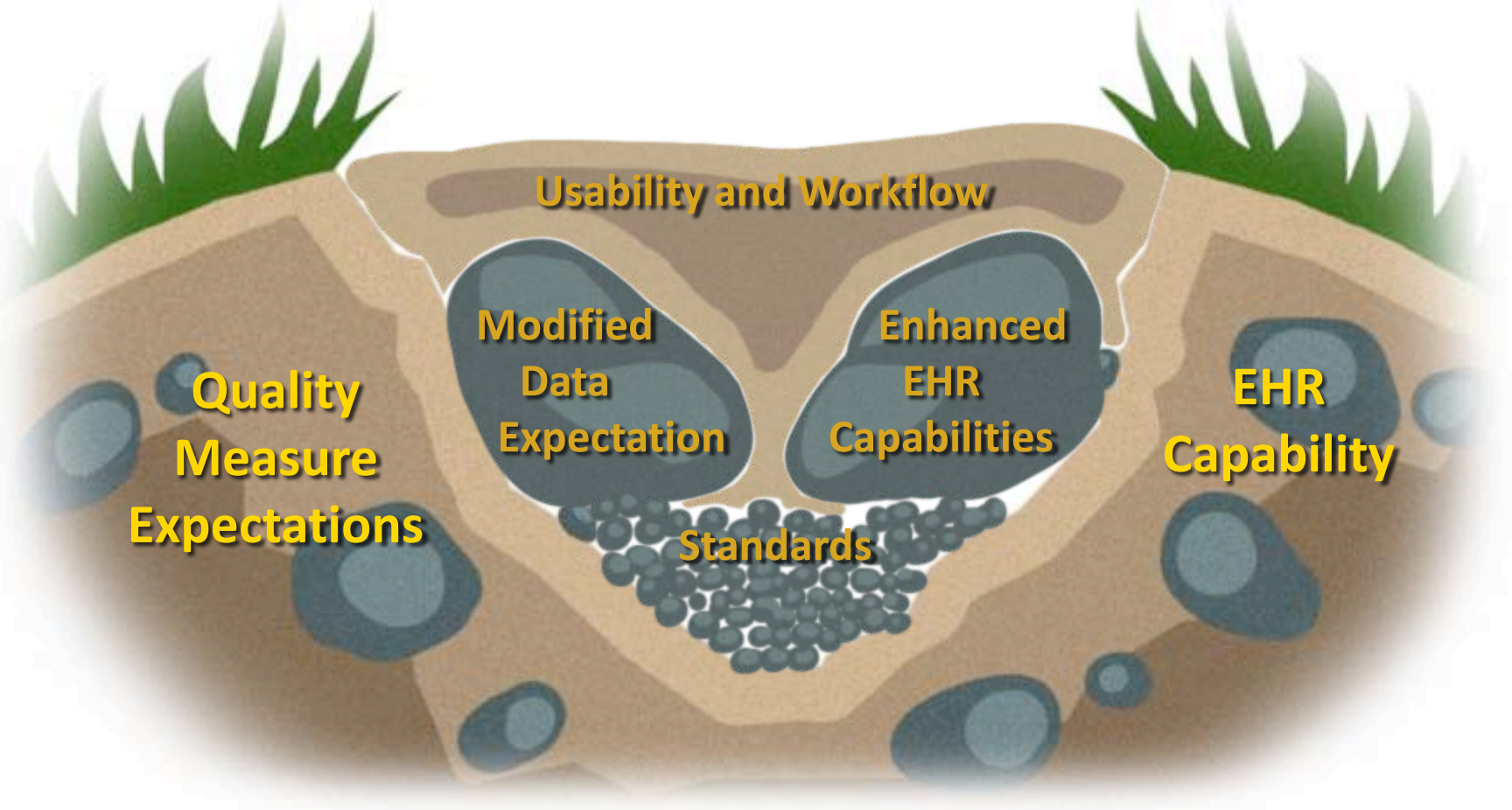




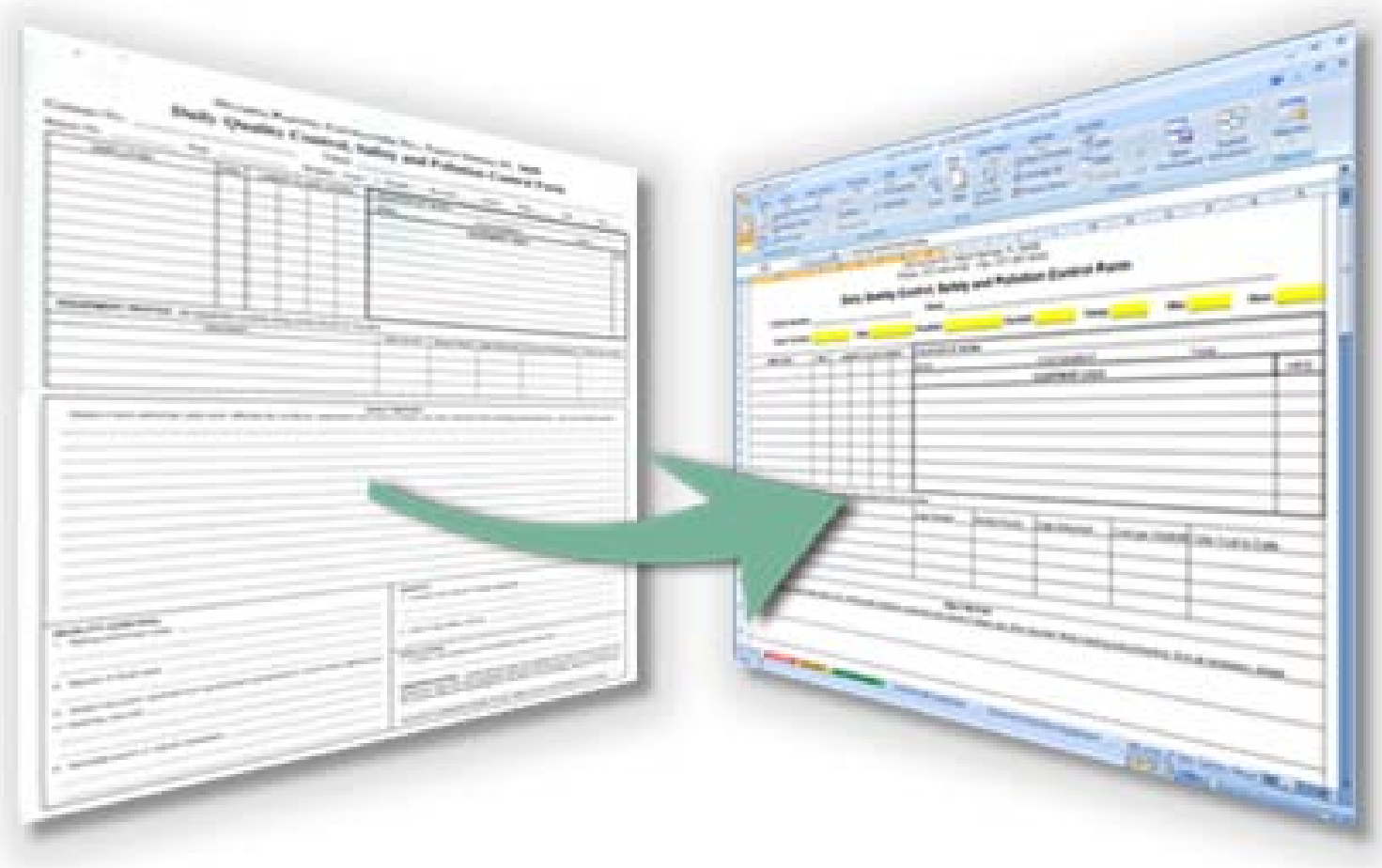
Common Mistake

Quality (measurement) Chasm 2.0

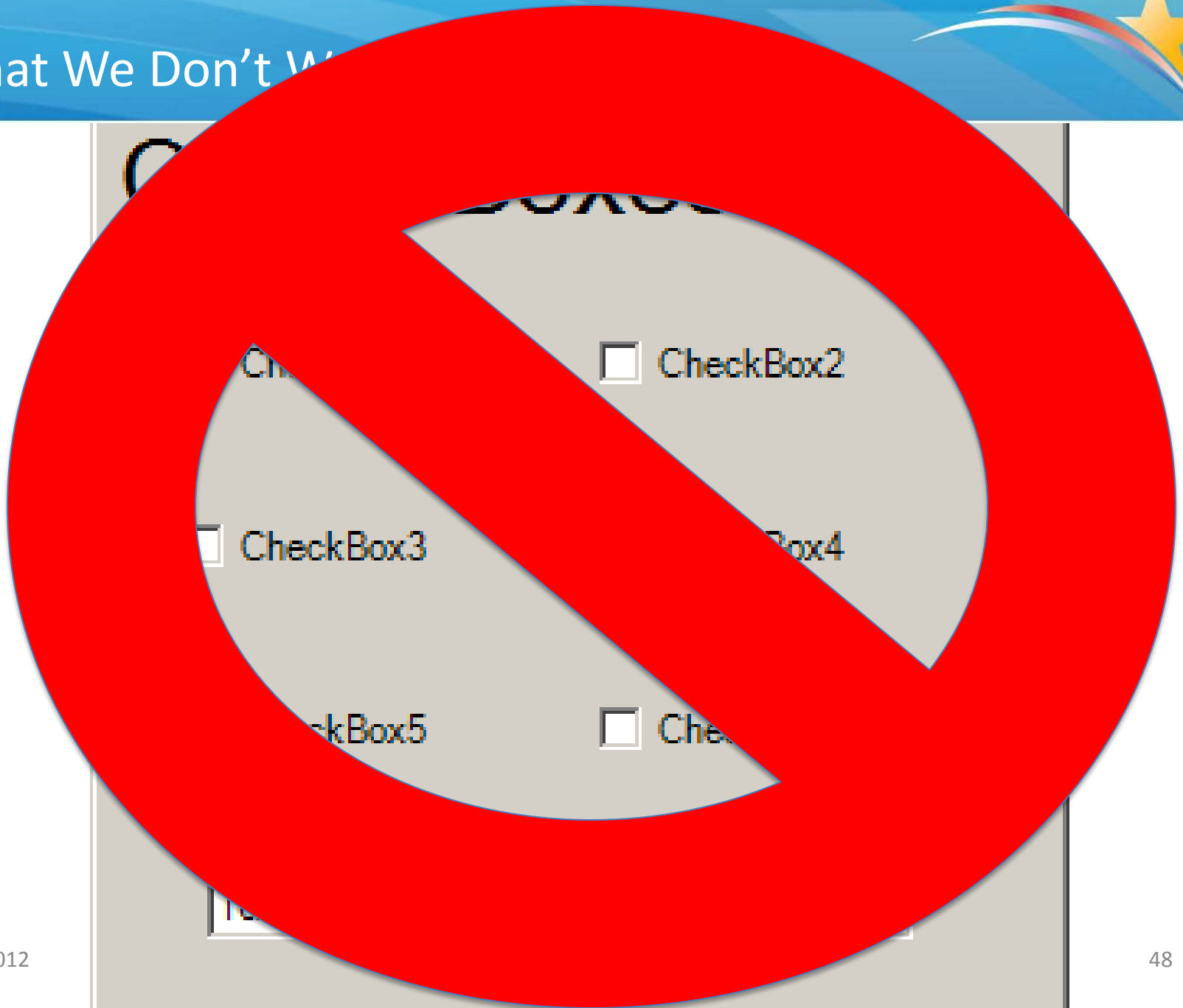
Quality Chasm 2.0



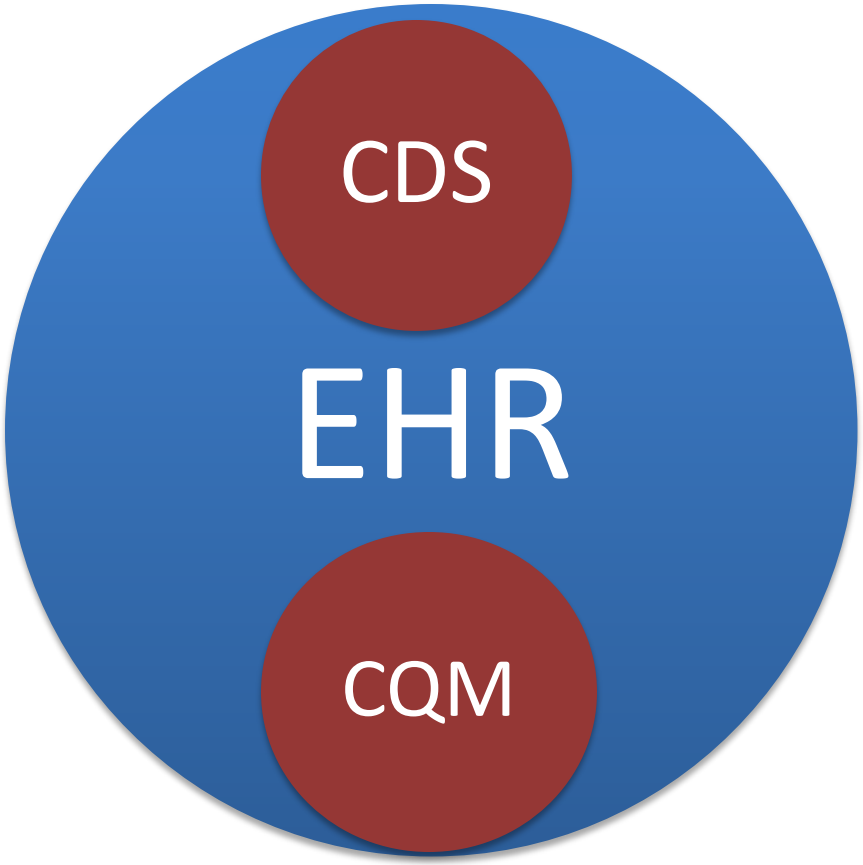
Coupled, “Hard-Coded” CDS



What We Don't W



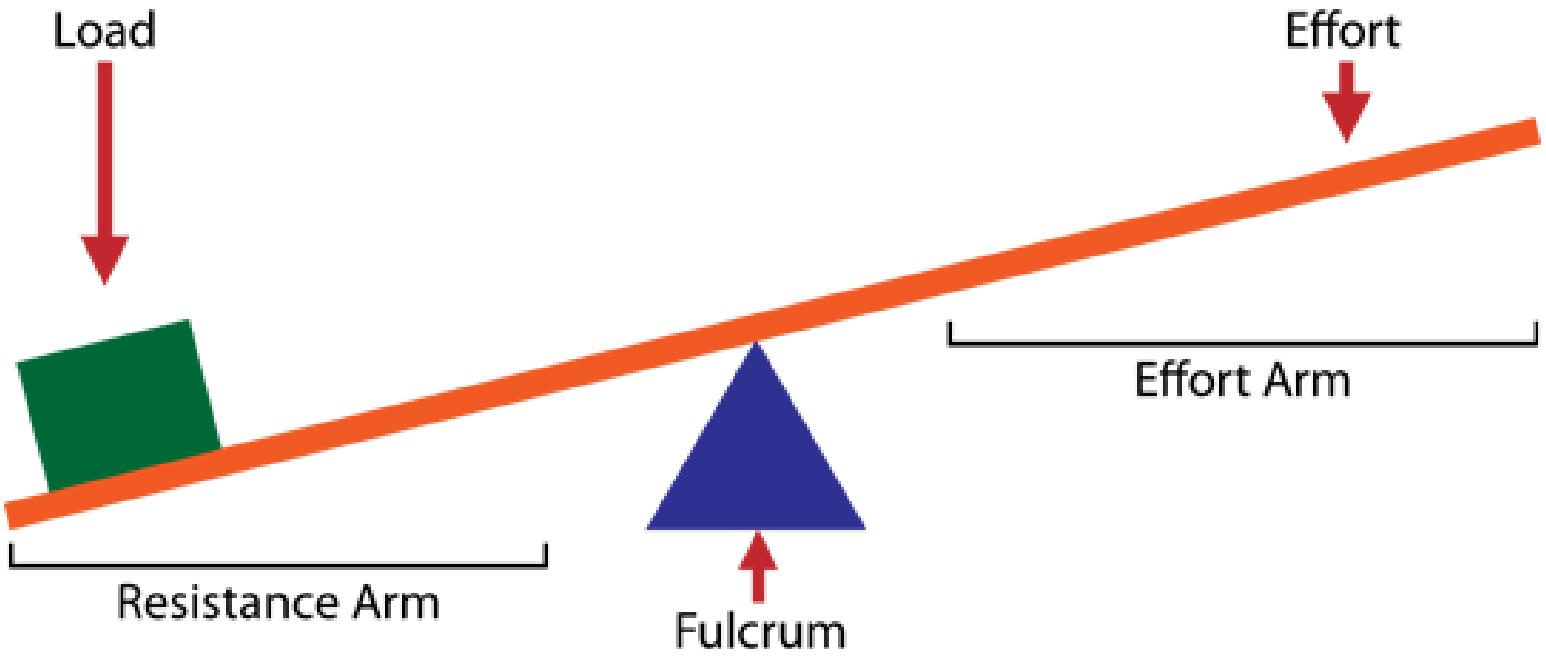
Integrated CDS & EHR



I'M A DOCTOR, NOT A DATA ENTRY CLERK!

Where the puck will be

Levers?



Why Standards?

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Office of the Secretary

45 CFR Part 170

RIN 0991–AB58

Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology

AGENCY: Office of the National Coordinator for Health Information Technology (ONC), Department of Health and Human Services.

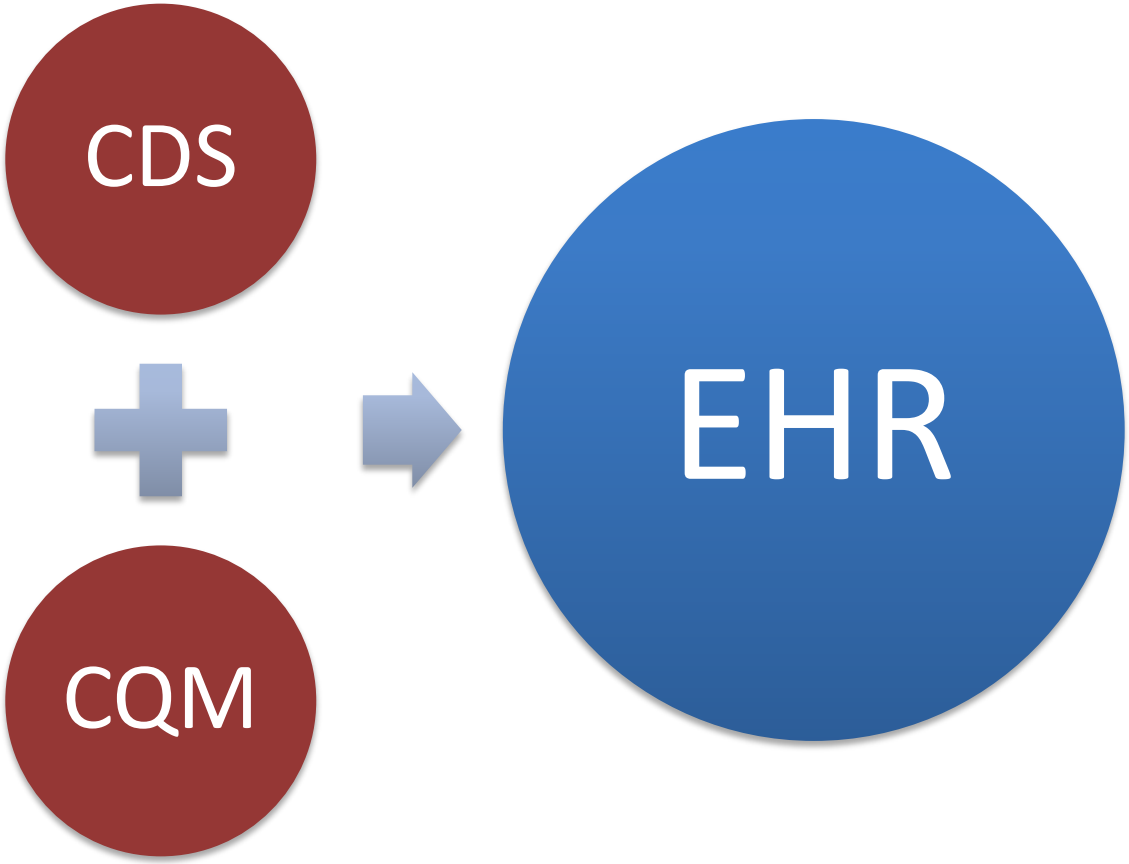
ACTION: Final rule.

SUMMARY: The Department of Health and Human Services (HHS) is issuing this final rule to complete the adoption of an initial set of standards, implementation specifications, and certification criteria, and to more closely align such standards, implementation specifications, and certification criteria with final meaningful use Stage 1 objectives and measures. Adopted certification criteria establish the required capabilities and specify the related standards and implementation specifications that certified electronic health record (EHR) technology will need to include to, at a minimum, support the achievement of meaningful use Stage 1 by eligible professionals, eligible hospitals, and/or critical access hospitals (hereafter, references to

CAH Critical Access Hospital
CCD Continuity of Care Document
CCHIT Certification Commission for Health Information Technology
CCR Continuity of Care Record
CDA Clinical Document Architecture
CDC Centers for Disease Control and Prevention
CFR Code of Federal Regulations
CGD Certification Guidance Document
CMS Centers for Medicare & Medicaid Services
CPOE Computerized Provider Order Entry
EHR Electronic Health Record
FIPS Federal Information Processing Standards
HHS Department of Health and Human Services
HIPAA Health Insurance Portability and Accountability Act of 1996
HIT Health Information Technology
HITECH Health Information Technology for Economic and Clinical Health
HITSP Healthcare Information Technology Standards Panel
HL7 Health Level Seven
ICD International Classification of Diseases
ICD–9–CM International Classification of Diseases, 9th Revision, Clinical Modification
ICD–10–PCS International Classification of Diseases, 10th Revision, Procedure Coding System
ICD–10–CM International Classification of Diseases, 10th Revision, Clinical Modification
IHS Indian Health Service
LOINC Logical Observation Identifiers Names and Codes
NCPDP National Council for Prescription Drug Programs
NLM National Library of Medicine
OCR Office for Civil Rights
OMB Office of Management and Budget
ONC Office of the National Coordinator for

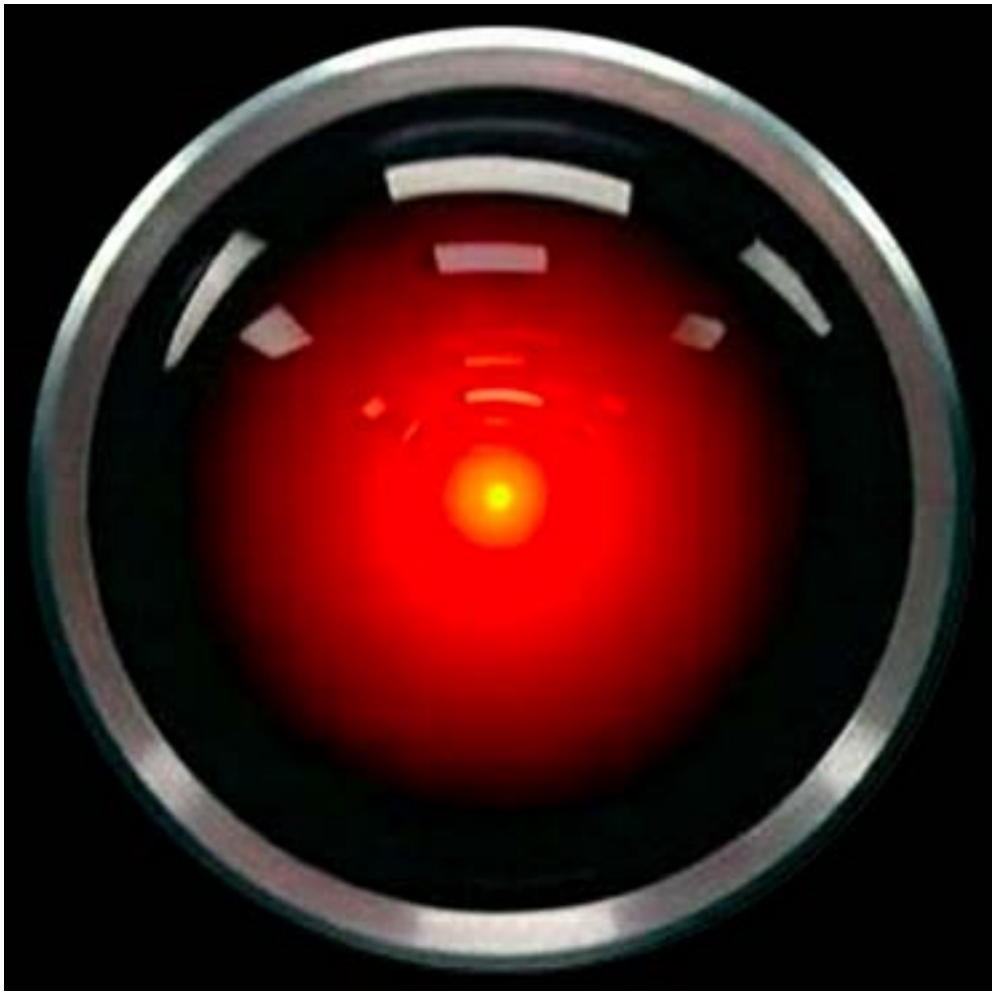
4. Definition of Certification Criteria
5. Definition of Qualified EHR
6. Definition of Complete EHR
7. Definition of EHR Module
8. Definition of Certified EHR Technology
9. Definition of Human Readable Format
10. Definition of User
D. Final Rule Amendments to Adopted Standards, Implementation Specifications, and Certification Criteria §§ 170.202, 170.205, 170.207, 170.210, 170.302, 170.304, 170.306
1. Flexibility and Innovation
2. Transport Standards
3. Certification Criteria and Associated Standards and Implementation Specifications
a. General Certification for Complete EHRs or EHR Modules—§ 170.302
b. Specific Certification for Complete EHRs or EHR Modules Designed for an Ambulatory Setting—§ 170.304
c. Specific Certification for Complete EHRs or EHR Modules Designed for an Inpatient Setting—§ 170.306
d. Adoption and Realignment of Certification Criteria to Support the Final Requirements for Meaningful Use Stage 1.
E. Additional Comments
F. Comments Beyond the Scope of This Final Rule
IV. Collection of Information Requirements
V. Regulatory Impact Analysis
A. Introduction
B. Why is this rule needed?
C. Executive Order 12866—Regulatory Planning and Review Analysis
1. Comment and Response
2. Executive Order 12866 Final Analysis
a. Costs
b. Benefits
D. Regulatory Flexibility Act Analysis
1. Comment and Response

Plug-n-Play



Opportunities ?

Natural Language Processing



Definition of CDS 1.0

"Providing clinicians, patients or individuals with knowledge and person-specific or population information, intelligently filtered or presented at appropriate times, to foster better health processes, better individual patient care, and better population health."

Why?

Providing clinicians, patients or individuals with knowledge and person-specific or population information, intelligently filtered or presented at appropriate times, to foster better health processes, better individual patient care, and better population health

Definition 2.0

JR JITI – for better health

Just Right

Just in Time

Information

We think in pictures

Just Right

Just in Time

Information

Questions?

jacob.reider@hhs.gov

For more information about ONC visit: healthIT.gov

- Extra slides .. Just in case

Faculty Directory

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z | All

Ouellette, Alicia
Associate Dean for Student Affairs; Professor of Law; Professor of Bioethics at Union Graduate College/Mt. Sinai School of Medicine Program in Bioethics
Phone: 518-445-3305
email

Bio | **Academia** | **Publications**

A Digital Visitor

A.B., Hamilton College
J.D., Albany Law School
Editor-in-Chief, *Albany Law Review*

Curriculum Vitae (PDF)

Alicia Ouellette, the Associate Dean for Student Affairs, is also a Professor of Law at Albany Law School and a Professor of Bioethics in the Union Graduate College/Mt. Sinai School of Medicine Program in Bioethics. Her research

QUICK LINKS

Please Select

Albany Law School faculty members have broad experience as legal practitioners, strong academic and scholarly credentials, and great teaching skills. Equally important, they are accessible to their students.

Digital Residents

Knowledge Lifecycle

6

Action

Action

Common Mistake

Your role: usability & Safety

Osheroff's 5 Rights

the Right Information…

Evidence-based, useful for guiding action and answering questions

…to the Right Stakeholder…

Both clinicians and patients

…in the Right Format…

Alerts, Order Sets, answers, etc.

…through the Right Channel…

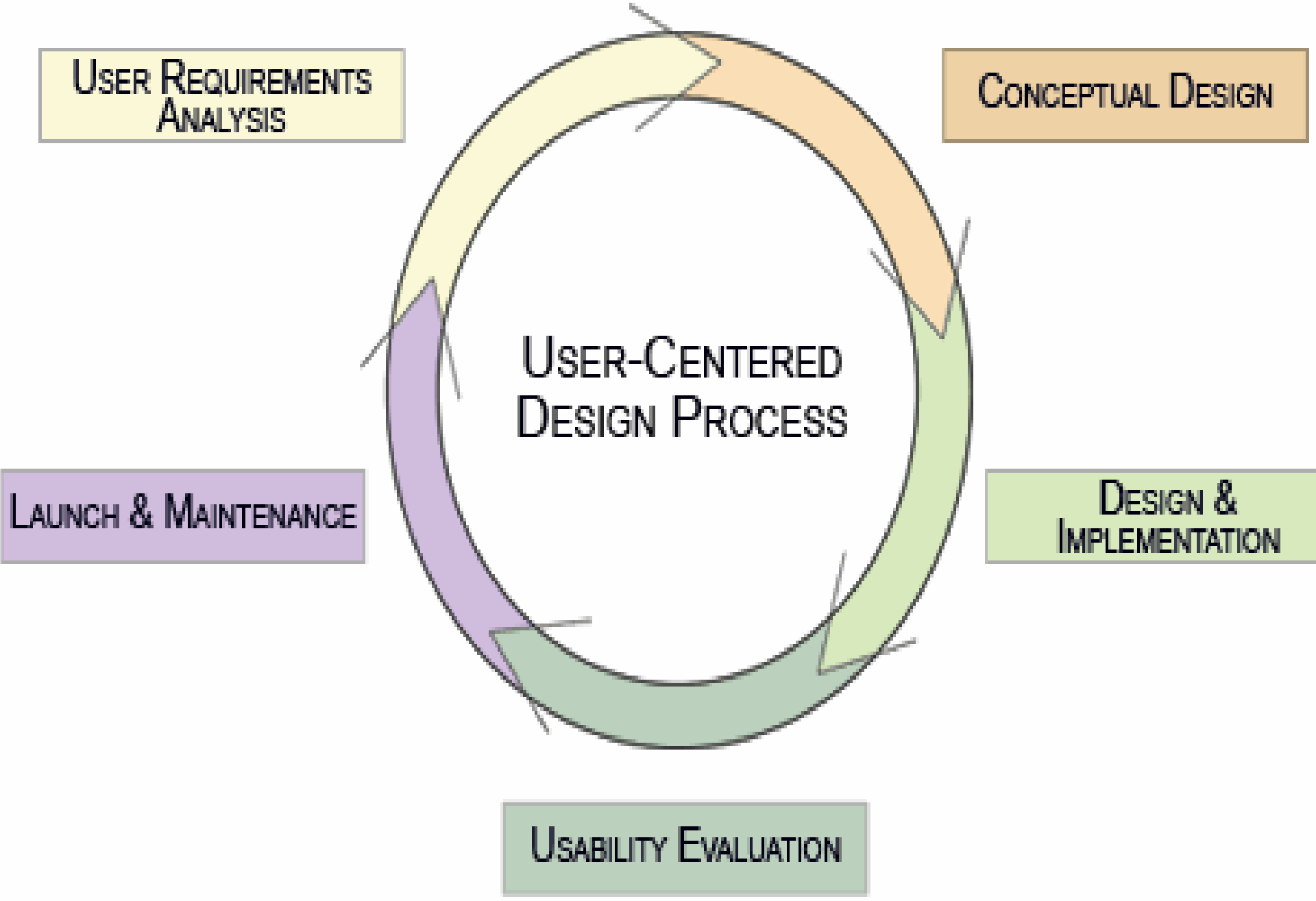
Internet, mobile devices, clinical information systems

…at the Right Point in the Workflow

to influence key decisions/actions

Osheroff, Teich, Levick et. al. Improving outcomes with CDS: an implementer's guide, 2nd edition. HIMSS. 2012.

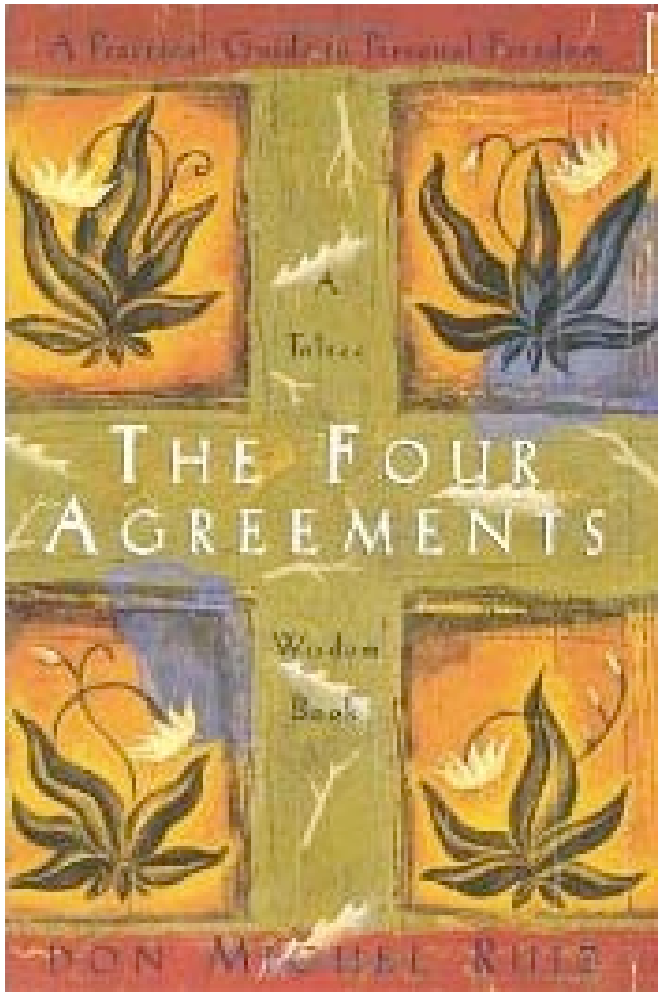
6


User Requirements Analysis
Conceptual Design
User-Centered Design Process
Launch & Maintenance
Design & Implementation
Usability Evaluation

What is Clinical Decision Support?

- Data Display (graphs)
- Facilitators (order sets ..)
- Reference information (stuff I forgot - or never learned)
- Alerts (as a last resort..)
- Templates / Forms

Knowledge Lifecycle



Be Impeccable With Your Word:

Don't Take Anything Personally:

Don't Make Assumptions:

Always Do Your Best: