Doctors and other Providers – and clinicians in general



ELECTRONIC CODE OF FEDERAL REGULATIONS

View past updates to the e-CFR. Click here to learn more.

e-CFR data is current as of March 1, 2017

Refine this search

Search database: Electronic Code of Federal Regulations For: "(SECTION = "HEALTH CARE PROVIDER")"

Display Results: 1 to 50 of 267 Total Results

Ordered By: Relevance

1 | 51 | 101 | 151 | 201 | 251 | Next>

Title 45: Public Welfare

PART 162—ADMINISTRATIVE REQUIREMENTS

Subpart D-Standard Unique Health Identifier for Health Care Providers

- §162.414 Implementation specifications: Health care clearinghouses. [Context]
- §162.412 Implementation specifications: Health plans. [Context]
- Subpart M-Referral Certification and Authorization
- §162.1301 Referral certification and authorization transaction. [Context]

Title 47: Telecommunication

PART 54-UNIVERSAL SERVICE

Subpart G—Universal Service Support for Health Care Providers

§54.649 Certifications. [Context]

Title 45: Public Welfare

PART 162—ADMINISTRATIVE REQUIREMENTS

Subpart D—Standard Unique Health Identifier for Health Care Providers

§162.408 National Provider System. [Context]

Title 47: Telecommunication

PART 54—UNIVERSAL SERVICE

Subpart G-Universal Service Support for Health Care Providers

§54.601 Health care provider eligibility. [Context]

Title 21: Food and Drugs

PART 880—GENERAL HOSPITAL AND PERSONAL USE DEVICES

Subpart G-General Hospital and Personal Use Miscellaneous Devices

[7] §880.6870 Dry-heat sterilizer. [Context]

In the context o the US
Government, Health Care
Providers are defined explicitly
for the purpose of federal
regulation.

In our context, we define a health care provider more generally as anyone who provides some form of health care or wellbeing coaching, training, or support.

Translational Medicine - two worlds of biomedical data



Molecular Data

Chemistry, Biology, Toxicology
Chemical compounds / Drugs
Proteins and Genes
Bioassay
Gene expression / MicroArray

Patient Data

Physicians, Clinical Trials, Patients
Observed side effects & adverse events
Observational clinical studies
Electronic medical records
Epidemiology & demographic
Phenotypic data
Web & social media

Patient-based data



How to read a paper

On this page you will find links to articles in the BMJ that explain how to read and interpret different kinds of research papers:

- Papers that go beyond numbers (qualitative research) Trisha Greenhalgh, Rod Taylor
- Papers that summarise other papers (systematic reviews and meta-analyses) Trisha Greenhalgh
- Papers that tell you what things cost (economic analyses) Trisha Greenhalgh
- Papers that report diagnostic or screening tests Trisha Greenhalgh
- Papers that report drug trials Trisha Greenhalgh
- Statistics for the non-statistician. II: "Significant" relations and their pitfalls Trisha Greenhalgh.
- Statistics for the non-statistician Trisha Greenhalgh
- Assessing the methodological quality of published papers Trisha Greenhalgh
- Getting your bearings (deciding what the paper is about) Trisha Greenhalgh
- The Medline database Trisha Greenhalgh

Health Information Technology for Economic and Clinical Health Act (HITECH)

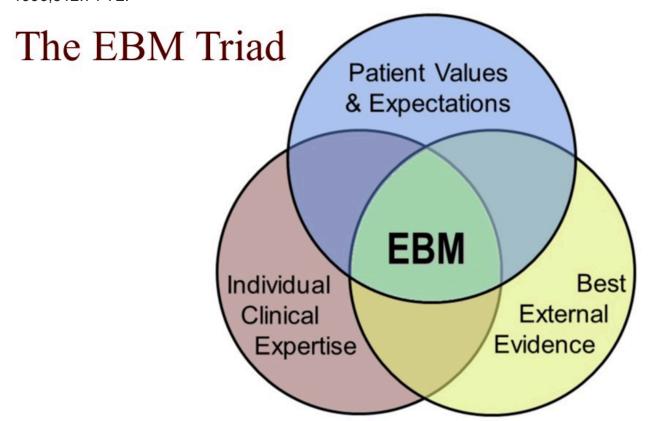
- Part of the American Recovery and Reinvestment Act of 2009
- promoted adoption and meaningful use of health information technology.
- Mandates audits of health care providers for compliance with the HIPAA
- Outlined adoption of electronic health records through meaningful use.

CMS Incentive programs have evolved into three stages of meaningful use

Evidence Based Medicine

Evidence based medicine is the <u>conscientious</u>, <u>explicit</u>, and <u>judicious</u> use of current best evidence in making decisions about the care of individual patients.

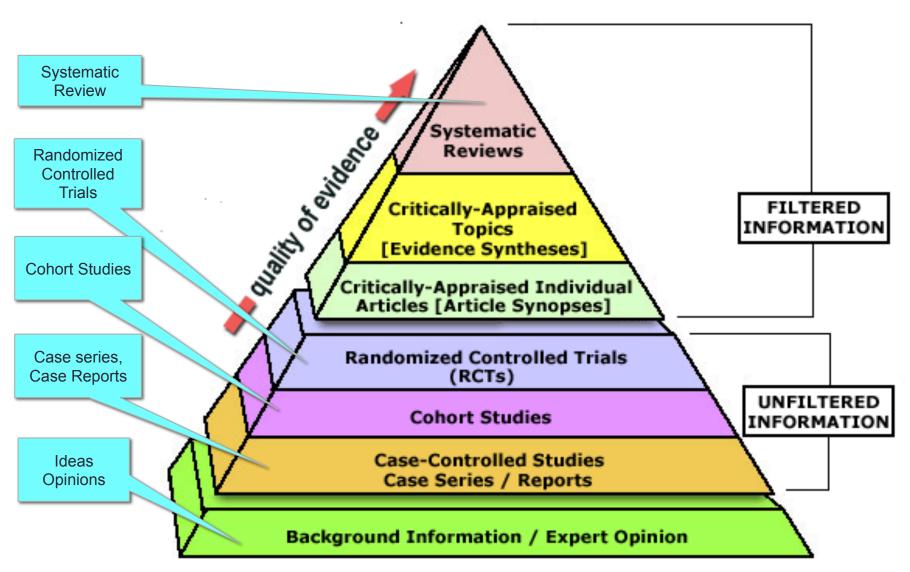
Evidence based medicine - what it is and what it isn't. David Sackett *et. al* BMJ 1996:312:71-72.



Tutorial on EBM here: http://med.fsu.edu/
index.cfm?
page=medicalinformatics.ebmTutorial

Armstrong, E.C. (2003) Harnessing new technologies while preserving basic values. Fam Sys & Health, (21)4, 351-355. http://www.ebm.med.ualberta.ca/EbmIntro.html# (EBM Toolkit)

Evidence Based Medicine



Evidence Based Medicine



Conscientious – being careful, and thorough, in what you do Explicit – being "up-front", open, clear and transparent Judicious – using good judgement and common sense

Original Definition:

"Evidence based medicine is the conscientious, explicit, and judicious use of current best evidence *in making decisions about the care of individual patients*."

Alternative definition:

"Evidence-based practice is the conscientious explicit and judicious use of current best evidence in helping individual patients make decisions about their care in the light of their personal values and beliefs"

[Notice the shift from doctor makes decisions to patient makes decisions]

Meaningful Use

Meaningful use is using certified electronic health record (EHR) technology to:

- Improve quality, safety, efficiency, and reduce health disparities.
- Engage patients and family.
- Improve care coordination, and population and public health.
- Maintain privacy and security of patient health information.

Ultimately, it is hoped that the meaningful use compliance will result in:

- Better clinical outcomes
- Improved population health outcomes
- Increased transparency and efficiency
- Empowered individuals
- More robust research data on health systems



Meaningful Use





Eligible professionals and hospitals must become meaningful users of certified EHRs to qualify for incentive payments [and later penalties] through the Medicare EHR Incentive Program administered by CMS.

The meaningful use criteria, objectives and measures evolve in three stages over the five years

Stage 1 2011-2012

Data capture and sharing

Stage 2 2014

Advance clinical processes

Stage 3 **2016**

Improved outcomes

Stage 1: Meaningful use criteria focus on:	Stage 2: Meaningful use criteria focus on:	Stage 3: Meaningful use criteria focus on:
Electronically capturing health information in a standardized format	More rigorous health information exchange (HIE)	Improving quality, safety, and efficiency, leading to improved health outcomes
Using that information to track key clinical conditions	Increased requirements for e-prescribing and incorporating lab results	Decision support for national high-priority conditions
Communicating that information for care coordination processes	Electronic transmission of patient care summaries across multiple settings	Patient access to self- management tools
Initiating the reporting of clinical quality measures and public health information	More patient-controlled data	Access to comprehensive patient data through patient- centered HIE
Using information to engage patients and their families in their care		Improving population health

Protected Health Information (PHI) Health Insurance Portability and Accountability Act (HIPAA)

Protected Health Information (PHI)

Any **information in a medical record that can be used to identify an individual**, and that was created, used, or disclosed in the course of providing a health care service, such as a diagnosis or treatment. It generally refers to demographic **information**, medical history, test and laboratory results, **insurance information** and other data that a healthcare professional collects to identify an individual and determine appropriate care.

Health Insurance Portability and Accountability Act (HIPAA)

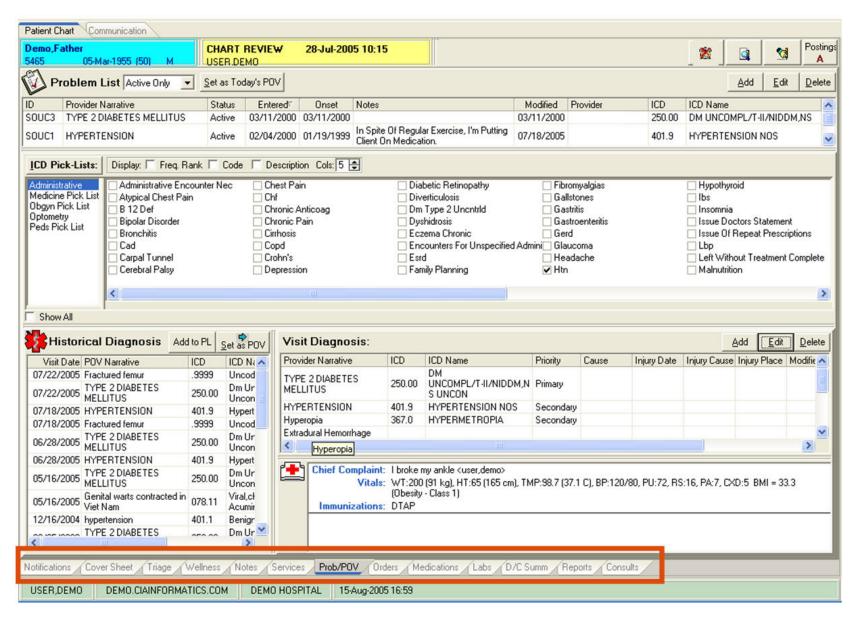
US legislation (1996) that provides data privacy and security provisions for safeguarding medical information.

The **HIPAA** Privacy Rule protects most "individually identifiable **health information**" held or transmitted by a covered entity or its business associate, in any form or medium, whether electronic, on paper, or oral. The Privacy Rule calls this **information protected health information** (PHI)

The Health Information Technology for Economic and Clinical Health **Act** (**HITECH Act**) mandates audits of health care providers to investigate and determine if they are in compliance with the **HIPAA** Privacy Rule (effective in 2003) and Security Rule (effective in 2005).

https://www.hhs.gov/hipaa

Electronic Medical Records



Electronic Medical Records



<u>Unit 1: Common Commercial Electronic Health Record (EHR) Systems Used in</u> Healthcare

Unit 2: Certification of Commercial EHRs

Unit 3: How Do Organizations Select an EHR? Lessons From the Front Lines

Unit 4: Electronic Health Record Functionality

Unit 5: System and Database Architectures Used in Commercial EHRs

Unit 6: Vendor Strategies for Terminology, Knowledge Management, and Data

Exchange

Unit 7: Assessing Decision Support Capabilities of Commercial EHRs

Unit 8: EHR Go-Live Strategies

http://www.healthinformaticsforum.com/courses/vendor-specific-electronic-health-records-ehr-systems/unit-1-common-commercial-electronic-health-record-systems-ehr