Medicine and Web 2.0: Blogs, Wikis, Podcasts, PHRs, Oh My!

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UC Davis School of Medicine
Requisite disclaimer

I am not affiliated nor have any relationships with any of the web sites, products, or people present today.
Overview

- Where the “medical internet” is today?
- Medicine and Web 2.0 -- where is it going today?
- Discuss useful Internet resources for practitioners
- Discuss the evolution of healthcare record systems in the Web 2.0 era
Before I get started

Something special is happening here -- yes, here in Ukiah Valley!
1995 - Internet Guide for the Healthcare Professional
- 173 “medical” websites
- the Internet had an estimated 25 million users

2008
- Google search for “healthcare” --> 218 million pages
- Yahoo search for “healthcare” --> 317 million pages
- est. 2 billion users today, 8/10 U.S. users looked for health information online
Internet Technology: 1995

- 5 web browsers to choose from
- The “web browser” had been developed 2 years earlier
- No way to connect web browsers to other services (reservations, storefronts, banking)
- Only one multimedia player existed - Quicktime
Internet Technology: 2008

- 115+ web browsers to choose from
- A substantial number of every-day services are offered through the Internet
  - Government services (DMV, IRS), Banking, Travel, Storefronts, Insurance, Healthcare services, Prescriptions
- Merging of “Internet” and desktop programs
- Multimedia players - streaming media
- iTunes and Podcasts
- Wiki software
- Social Networking - MySpace, Facebook, etc...
- Blogs and blogging software
Web 2.0 - What is it?

- Web 2.0 is a “buzzword” which makes it difficult to define
- It refers to the “second generation” of web applications and uses
- Technical people define it in terms of the applications (blogs, wikis, podcasts, etc..)
- The new applications are fundamentally designed around information sharing - exchanging information, opinions, ideas, data widely and easily
- A non-technical definition:
  - “Web 2.0 brings people together in more dynamic, interactive spaces” (Giustini 2006)
Web 2.0 and Medicine

- Web 2.0 applications define the “current generation” of uses for the Internet

- Why am I talking about Web 2.0 here?
  - Web 2.0 applications and functions are inextricably interwoven into how all uses the Web today -- healthcare professional included
  - Web 2.0 is a much about culture change as it is about new applications leading to fundamentally different social and professional interactions which is relevant to any discussion about “what’s new on the the Internet and Health”
Highlights of this presentation

- Survey of resources for practitioners
- Podcasts
- Wikis
- Blogs
- Personal Health Records - they are coming!
- Other interesting developments
Resources

- ePocrates
- WebMD
- UpToDate
- AccessMedicine
- eMedicine
- MDConsult
### Zocor

**simvastatin**

**Medi-Cal Contract Drug List:** Y : Covered Drug

#### Entire Monograph

**Adult Dosing**

Dosage forms: 5, 10, 20, 40, 80

**hypercholesterolemia**

5-80 mg PO qpm
Start: 20 mg PO qpm; 40 mg qpm for LDL reduction goal >45%; 5 mg qpm if on cyclosporine, danazol; Max: 80 mg/day; 10 mg/day if on cyclosporine, danazol, gemfibrozil; 20 mg/day if on amiodarone, verapamil

**hypertriglyceridemia**

5-80 mg PO qpm
Start: 20 mg PO qpm; 5 mg qpm if on cyclosporine, danazol; Max: 80 mg/day; 10 mg/day if on cyclosporine, danazol, gemfibrozil; 20 mg/day if on amiodarone, verapamil

**dysbetalipoproteinemia**

5-80 mg PO qpm
Start: 20 mg PO qpm; 5 mg qpm if on cyclosporine, danazol; Max: 80 mg/day; 10 mg/day if on cyclosporine, danazol, gemfibrozil; 20 mg/day if on amiodarone, verapamil
ePocrates - pill pictures!
ePocrates - disease information
**Key Highlights**

- Amyloidosis is an amyloid tissue deposition disease that may have a primary cause or be secondary to other diseases.
- Usually presents with unexplained weight loss, fatigue and edema resistant to diuretic therapy.
- Immunofixation of the serum and urine confirms the presence of monoclonal light chains in primary systemic amyloidosis. Biopsy verification of amyloid deposits is essential.
- Treatment includes appropriate management of resulting clinical syndromes, such as nephrotic syndrome, cardiomyopathy and conduction disorders.
- Definitive treatment of primary systemic amyloidosis includes myeloablative high-dose chemotherapy with stem cell reconstitution in selected patients, or chemotherapy.
1. warfarin $\leftrightarrow$ Zithromax
monitor INR; azithromycin least likely macrolide to alter INR response to warfarin: combo may incr. INR, risk of bleeding (mechanism unknown, possibly altered vitamin K production by gut flora)
ePocrates on the iPhone!

Available for the following platforms:
- Palm
- Win Mobile
- iPhone
- BlackBerry
- Win Smartphone

iPhone / iPod touch

Overview
- Drug Information
- Pill ID
- Drug Interactions
- Formulary Information
- Free Updates
- Requirements

The free Epocrates Rx software for iPhone OS puts continually updated peer-reviewed drug information at your fingertips. Epocrates information has been shown to:

- Improve patient care and safety
- Save time
- Reduce administrative burden
- Enable confident clinical decisions

Our information is developed by healthcare professionals, with this edition specifically formatted for iPhone and iPod touch devices.
WebMD - a good old standby
UpToDate - one of a kind

Tap into the world's largest clinical community

*UpToDate* is an evidence based, peer reviewed information resource - available via the Web, desktop, and PDA.

With *UpToDate*, you can answer questions quickly, increase your clinical knowledge, and improve patient care. Independent studies confirm these benefits.

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Clinical manifestations and diagnosis of retroperitoneal fibrosis

INTRODUCTION — Reports describing idiopathic retroperitoneal fibrosis first appeared in the English medical literature in the mid 1940s. This disorder has also been referred to as Ormond's disease, periureteritis fibrosa, periureteritis plastica, chronic fibrosing retroperitoneal granuloma, and fibrous retroperitonitis.

Retroperitoneal fibrosis is a rare disease, with an incidence estimated to range from 1:200,000 to 1:500,000. The prevalence is around 1 to 2 per 100,000 inhabitants. The disease presents insidiously, often making the diagnosis difficult. Early symptoms may include a vague, poorly localized pain over the flank, low back, and abdomen, or nonspecific complaints, such as malaise, anorexia, weight loss, moderate pyrexia, nausea, and vomiting [1,2]. Acute-phase reactants, such as erythrocyte sedimentation rate and C-reactive protein levels are commonly elevated. Fibrotic encasement of the ureters may also cause obstructive uropathy and renal insufficiency.

Idiopathic retroperitoneal fibrosis is part of the disease spectrum of "chronic periaortitis" that includes infrarenal aortic aneurysms and periaurysmal retroperitoneal fibrosis [3,4]. These are histologically similar, but the fibrous tissue in periaurysmal fibrosis may encase adjacent structures and cause obstructive complications, whereas idiopathic fibrosis usually occurs with inflammatory aneurysms.

The etiology, pathogenesis, clinical manifestations, and diagnostic evaluation of retroperitoneal fibrosis will...
INTRODUCTION — People with diabetes have an important role in their own medical care, and self-glucose monitoring provides an opportunity for people with diabetes to take control of their health.

Although diabetes is a chronic condition, it can usually be controlled with lifestyle changes and medication. The goal of treatment is to keep blood glucose levels in the normal or near-normal range. Monitoring blood glucose levels provides a way of determining how well a diabetes treatment plan is working. (See "Patient information: Lifestyle modifications in diabetes" and see "Patient information: Diabetes type 1: Insulin treatment").

A healthcare provider will periodically order laboratory blood tests to determine blood glucose levels and hemoglobin A1C (HbA1C). The results of these tests gives an overall sense of how blood glucose levels are controlled. Daily self-monitoring of blood glucose levels and treatment also requires that patients monitor their own blood glucose levels on a day-to-day basis.
UpToDate - not inexpensive...

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- **Patient subscriptions** are available to patients or patient advocates. For more information click here.

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GENERAL PRINCIPLES

*Amyloidosis* is a term for diseases that are due to the extracellular deposition of insoluble polymeric protein fibrils in organs. These diseases are a subset of a growing group of disorders caused by misfolding of proteins. Among these are certain neurodegenerative diseases, transmissible prion diseases, and some genetic diseases caused to lead to misfolding and protein loss of function, such as certain of the cystic fibrosis mutations. Amyloid fibrils share a pleated sheet structural conformation that confers unique staining properties. The name *amyloid* is attributed to the German pathologist, Virchow, who in 1854 thought such deposits were cellulose-like.

Amyloid diseases are defined by the biochemical nature of the protein in the fibril deposits and are classified according to whether they are systemic or localized, acquired or inherited, and by their clinical patterns (Table 324-1). The accepted nomenclature, where *A* indicates *amyloidosis* and *X* represents the protein in the fibril. *AL* is amyloid composed of immunoglobulin light chains (LCs), and is called *primary systemic amyloidosis*; it arises from a clonal B cell disorder, usually myeloma. *AF* group amyloidoses, most commonly due to transthyretin, the transport protein for thyroid hormone and retinol binding protein, is composed of the acute phase reactant serum amyloid A protein and occurs in the setting of chronic inflammatory or infectious diseases. The disease associated with AA amyloid is called secondary *amyloidosis*. *Aβ* is amyloid composed of *β*-amyloid, it occurs in individuals with end-stage renal disease (ESRD) of long duration. *Aβ* is the most common form of localized
## Subscription Rates for Individuals

Prices listed are for one individual user for one year of access, unless otherwise noted. All prices subject to change without notice.

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GI bleed complication risk: Higher risk (28.7% - 37.2% had in-hospital complications)

- Ongoing bleeding (via NG tube, emesis, or bowel movements, excluding coffee ground hematemesis and formed black stool)?
  - Yes
  - No
- Systolic blood pressure less than 100 mmHg (excluding orthostatic readings)?
  - Yes
  - No
- Prothrombin time elevated more than 1.2 times control?
  - Yes
  - No
- Unstable comorbid disease? (Any organ system abnormality that would normally require ICU admit such as MI)
  - Yes
  - No
- Erratic or altered mental status? (of ANY cause)
  - Yes
  - No

In-hospital GI bleed complication risk in adults (in-hospital complication = recurrent GI hemorrhage, surgical laparotomy to control hemorrhage, or death).

Any "Yes" answer makes the patient "Higher risk"

Crit Care Med 1997 Vol. 25 No. 7 p:1126-9
MEDLINE SEARCH

The eMedicine Web site is designed primarily for use by qualified physicians and other medical professionals. The information contained herein should NOT be used as a substitute for the appropriately qualified and licensed physician or other health care provider. The information provided here is for educational and informational purposes only. In no way should it be considered medical advice. Please check with a physician if you suspect you are ill.

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MD Consult - 60+ textbooks
## MD Consult - Cost

### MD Consult Product Comparison and Subscription Options

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MedlinePlus - a patient centered resource
Medline Plus topic list

### Body Location/Systems
- Blood, Heart and Circulation
- Bones, Joints and Muscles
- Brain and Nerves
- Digestive System
- Ear, Nose and Throat
- Endocrine System
- Eyes and Vision
- Immune System
- Kidneys and Urinary System
- Lungs and Breathing
- Mouth and Teeth
- Skin, Hair and Nails

### Disorders and Conditions
- Cancers
- Genetics/Birth Defects
- Infections
- Injuries and Wounds
- Mental Health and Behavior
- Metabolic Problems
- Poisoning, Toxicology, Environmental Health
- Pregnancy and Reproduction
- Substance Abuse Problems

### Diagnosis and Therapy
- Complementary and Alternative Therapies
- Diagnostic Tests
- Drug Therapy
- Surgery and Rehabilitation

### Demographic Groups
- Children and Teenagers
- Men
- Population Groups
- Seniors
- Women

### Health and Wellness
- Fitness and Exercise
- Food and Nutrition
- Health System
- Personal Health Issues
- Safety Issues
- Sexual Health Issues
- Social/Family Issues
- Wellness and Lifestyle
Medline Plus Drug Reference


Drugs beginning with "T"

- T-20 see Enfuvirtide Injection
- Tacrine
- Tacrolimus
- Tacrolimus Topical
- Tadalafil

- Tagamet® see Cimetidine Hydrochloride Injection
- Tagamet® see Cimetidine
- Tagamet® H2 see Cimetidine
- Tagamet® Tiltab® see Cimetidine
- Talwin® Compound Caplets® see Aspirin

- Talwin Nx® see Pentazocine and Naloxone
- Tamiflu® see Oseltamivir
- Tamoxifen
- Tamsulosin
- Tanafed® as a combination product containing Chlorpheniramine Tannate and Pseudoephedrine Tannate see Chlorpheniramine
Other Interesting and possibly useful resources
California Web Formulary

Compliments of Citizens for the Right to Know

Welcome to the California Internet Formulary Reference™

This site contains information on drug formularies for the state of California only.

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California Web Formulary example

**Avelox (Moxifloxacin HCl)**

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**DRUGS FOR INFECTIONS**

**DIRECT TO KNOW**

Exactly what your health plan covers — and does **not** cover.

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[Image: Screen capture of a web formulary example]
Clinical Cases by Organ System. Click on the menu buttons above to explore the cases.

After a few weeks of clinical practice, medical students and residents realize that there is a significant difference between what they read in the textbooks and what they see in the hospital wards and clinics every day. Patients are different from their disease description in the books. One experienced physician summarized this experience by saying: "his CHF did not read the book." How to bridge this gap between theory and practice? Our answer was to create this free case-based curriculum of clinical medicine. ClinicalCases.org was featured in the British Medical Journal and Medscape.com, and was referenced several times in the medical education literature. The project is hyperlinked in the web sites of 28 medical schools in the U.S., Canada and Europe.

This case-based curriculum was started by physicians at Cleveland Clinic and Case Western Reserve University (St. Vincent/St. Luke) Internal Medicine Residency Program for the purpose of medical education. The case reports do not follow real cases, may be compiled descriptions and are modified in compliance with HIPAA to protect patient confidentiality. Please read the web site disclaimer.
Type 2 diabetes Health Article

Definition

Type 2 diabetes is a life-long disease marked by high levels of sugar in the blood. It occurs when the body does not respond correctly to insulin, a hormone released by the pancreas. Type 2 diabetes is the most common form of diabetes.

See also:
- Diabetes
- Type 1 diabetes
- Gestational diabetes

Alternative Names
Emerging Med example

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| Modality                                                            |                                                                            |
| Chemotherapy, Diagnostic, Signal Transduction Inhibitor              |                                                                            |
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| Durham, NC                                                          |                                                                            |

| Title                                                                 |                                                                            |
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| Vorinostat and Temozolomide in Treating Patients With Malignant Gliomas |                                                                            |
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| Modality                                                            |                                                                            |
| Chemotherapy, Diagnostic, Signal Transduction Inhibitor              |                                                                            |
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| Durham, NC                                                          |                                                                            |

| Title                                                                 |                                                                            |
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| Tai Chi Vs. Structured Exercise on Physical Fitness and Stress in Cancer Survivors - Brain Tumor |                                                                            |
| Phase                                                               |                                                                            |
| II                                                                   |                                                                            |
| Modality                                                            |                                                                            |
| Complementary and Alternative Therapy                               |                                                                            |
| Select Location(s)                                                  |                                                                            |
| More Locations Available. To Learn More, Call Toll-Free |                                                                            |

| Title                                                                 |                                                                            |
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| Imatinib Mesylate and Temozolomide in Patients With Malignant Glioma |                                                                            |
| Phase                                                               |                                                                            |
| I                                                                    |                                                                            |
| Modality                                                            |                                                                            |
| Chemotherapy, Diagnostic, Signal Transduction Inhibitor              |                                                                            |
| Select Location(s)                                                  |                                                                            |
| Durham, NC                                                          |                                                                            |

| Title                                                                 |                                                                            |
|----------------------------------------------------------------------|                                                                            |
| Vorinostat and Temozolomide in Treating Patients With Malignant Gliomas |                                                                            |
| Phase                                                               |                                                                            |
| I                                                                    |                                                                            |
| Modality                                                            |                                                                            |
| Chemotherapy, Diagnostic, Signal Transduction Inhibitor              |                                                                            |
| Select Location(s)                                                  |                                                                            |
| Durham, NC                                                          |                                                                            |

| Title                                                                 |                                                                            |
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| Tai Chi Vs. Structured Exercise on Physical Fitness and Stress in Cancer Survivors - Brain Tumor |                                                                            |
| Phase                                                               |                                                                            |
| II                                                                   |                                                                            |
| Modality                                                            |                                                                            |
| Complementary and Alternative Therapy                               |                                                                            |
| Select Location(s)                                                  |                                                                            |
| More Locations Available. To Learn More, Call Toll-Free |                                                                            |

| Title                                                                 |                                                                            |
|----------------------------------------------------------------------|                                                                            |
| Imatinib Mesylate and Temozolomide in Patients With Malignant Glioma |                                                                            |
| Phase                                                               |                                                                            |
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| Modality                                                            |                                                                            |
| Chemotherapy, Diagnostic, Signal Transduction Inhibitor              |                                                                            |
| Select Location(s)                                                  |                                                                            |
| Durham, NC                                                          |                                                                            |

| Title                                                                 |                                                                            |
|----------------------------------------------------------------------|                                                                            |
| Vorinostat and Temozolomide in Treating Patients With Malignant Gliomas |                                                                            |
| Phase                                                               |                                                                            |
| I                                                                    |                                                                            |
| Modality                                                            |                                                                            |
| Chemotherapy, Diagnostic, Signal Transduction Inhibitor              |                                                                            |
| Select Location(s)                                                  |                                                                            |
| Durham, NC                                                          |                                                                            |
Podcasts

- Podcasts - “A podcast is a series of digital-media files which are distributed over the Internet using syndication feeds for playback on portable media players and computers.” (Wikipedia, 2008)

- Video Podcasts
- Audio Podcasts

- Useful Podcast sites
  - NIH Videopodcasts
  - Videocast.com
NIH VideoCasting

Today's Events

The NIH Blue Ribbon Panel to advise on the Risk Assessment of the National Emerging Infectious Diseases Laboratory. University Medical Center will meet on July 16 in Building 31, Conference Room 6 from 8:00 AM - 12:30 PM. Discussion will focus on communications and the general principles and strategies for effective community outreach and engagements.
Wednesday, July 16, 2008 8:00:00 AM EDT (-0400)
NIH Office of Biotechnology Activities
Runtime 270 minutes

Upcoming Events
Schedule of upcoming events at the National Institutes of Health
46 events are scheduled

Past Events
# NIH Podcasts in iTunes

<table>
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<th>Podcast</th>
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<th>Release Date</th>
<th>Description</th>
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<td>1:29:04</td>
<td>10/24/07</td>
<td>Enhanced Audio Podcast</td>
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<td>Hippocampal Memory Reactivation During Awake and Sleep States</td>
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<td>12/6/06</td>
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» Yoga
» All Health

Health

Medicine Videos
Medicine videos cover the latest advances in medicine and other methods to keep yourself healthy or bring yourself back up to good health. Learn about what's happening in the medicine industry and what other people are doing to use medicine in their daily lives. Check out these medicine videos and find the tonic you're looking for!

Episodes:

Young Adults With Prehypertension Are More Likely To Have Coronary Artery Calcium and Atherosclerosis Later in Life
Internal Medicine Report

Videocasts:

Supercat
Jefferson: The Life of a Great Cat

Diagnosis and Placement of No-Prop
Videocast.com - ratings
What are Wikis?

- A generation of web sites originating after Ward Cunningham created “WikiWikiWeb” in 1994 -- a software application that allows easy creation of web pages which can then be edited/modified by anyone who has access to them.
- “wiki” - Hawaiian word for “fast”

Wikipedia

- The largest and most well known Wiki.
- Created in 2001 by Jimmy Wales and Larry Sanger
- Content is free and provided under an “open content” license
Cancer (medical term: malignant neoplasm) is a class of diseases in which a group of cells display uncontrolled growth (division beyond the normal limits), invasion (intrusion on and destruction of adjacent tissues), and sometimes metastasis (spread to other locations in the body via lymph or blood). These three malignant properties of cancers differentiate them from benign tumors, which are self-limited, do not invade or metastasize. Most cancers form a tumor but some, like leukemia, do not. The branch of medicine concerned with the study, diagnosis, treatment, and prevention of cancer is oncology.

Cancer may affect people at all ages, even fetuses, but the risk for most varieties increases with age.[1] Cancer causes about 13% of all deaths.[2] According to the American Cancer Society, 7.6 million people died from cancer in the world during 2007.[3] Cancers can affect all animals.

Nearly all cancers are caused by abnormalities in the genetic material of the transformed cells. These abnormalities may be due to the effects of carcinogens, such as tobacco smoke, radiation, chemicals, or infectious agents. Other cancer-promoting genetic abnormalities may be randomly acquired through errors in DNA replication, or are inherited, and thus present in all cells from birth. The heritability of cancers are usually affected by complex interactions between carcinogens and the host's genome. New aspects of the genetics of cancer pathogenesis, such as DNA methylation, and microRNAs are increasingly recognized as important.

Genetic abnormalities found in cancer typically affect two general classes of genes. Cancer-promoting oncogenes are typically activated in cancer cells, giving those cells new properties, such as hyperactive growth and division, protection against programmed cell death, loss of respect for normal tissue boundaries, and the ability to become established in diverse tissue environments. Tumor suppressor genes are then inactivated in cancer cells, resulting in the loss of normal functions in those cells, such as accurate DNA replication, control over the cell cycle, orientation and adhesion within tissues, and interaction with protective cells of the immune system.
Wikipedia - ability to edit...
Blogs

- What’s a “blog”?
  - Web pages designed to easily allow authoring of content in a news style
  - Blogging software --

- Dr. Wachter’s Blog
- DB’s Rants
Another Case of Wrong Site Surgery: Are We Averting Our Eyes From Some of the Root Causes?

Yet another case of wrong-side surgery, this one at Boston’s Beth-Isreal Deaconess Hospital. Though CEO Paul Levy does a nice job discussing the case on his blog, I’ll focus on two aspects Paul neglects: the role of production pressures in errors, and...

665 Views / 7 Comments
Wed, Jul 09 2008, 7:52 AM by Bob Wachter
Filed under: Hospital Care, Patient Safety/Medical Errors, Media/Press Coverage

Door to Antibiotics Time in Pneumonia: Lessons from a Flawed Quality Measure

In today's Annals of Internal Medicine, my colleagues and I describe the saga of the four-hour measure of door-to-antibiotics time for pneumonia – the first truly dangerous measure in the era of public quality reporting. It is an important cautionary...

911 Views / 4 Comments
Wed, Jul 02 2008, 8:09 AM by Bob Wachter
Filed under: Hospital Care, Pay-for-performance, Transparency and Reporting, Quality Measurement, Patient Safety/Medical Errors, Health Policy
You can subscribe to blogs...
RSS - Really Simple Syndication

What is RSS?

- “a family of web feed formats used to publish frequently updated content such as blog entries, news headlines, and podcasts in a standardized format.” - Wikipedia

- Format originally developed by Ram Guha while at Netscape in 1999, then adopted and refined over the years

- Based on RDF - resource description framework, which uses XML as syntax

- RDF is a ‘specification’ that can be used to ‘describe things’ you can access on the web. In other words, it is a way to add “metadata” to web accessible resources whatever they may be (web pages, media files, news feeds, etc..)
RSS Example

```xml
<?xml version="1.0"?>
<rss version="2.0">
  <channel>
    <title>Lift Off News</title>
    <link>http://liftoff.msfc.nasa.gov/</link>
    <description>Liftoff to Space Exploration.</description>
    <language>en-us</language>
    <pubDate>Tue, 10 Jun 2003 04:00:00 GMT</pubDate>
    <lastBuildDate>Tue, 10 Jun 2003 09:41:01 GMT</lastBuildDate>
    <docs>http://blogs.law.harvard.edu/tech/rss</docs>
    <generator>Weblog Editor 2.0</generator>
    <managingEditor>editor@example.com</managingEditor>
    <webMaster>webmaster@example.com</webMaster>
    <ttl>5</ttl>

    <item>
      <title>Star City</title>
      <description>How do Americans get ready to work with Russians aboard the 
      International Space Station? They take a crash course in culture, language 
      and protocol at Russia’s Star City.</description>
      <pubDate>Tue, 03 Jun 2003 09:39:21 GMT</pubDate>
      <guid>http://liftoff.msfc.nasa.gov/2003/06/03.html#item573</guid>
    </item>

    <item>
      <title>Space Exploration</title>
    </item>
  </channel>
</rss>
```
MedWorm - aggregated RSS feeds

the medical RSS filter engine
over 5500 authoritative RSS feeds go in
hundreds of new RSS feeds by category come out

search the archive of RSS data:

- any words
- all words
- exact phrase
- news
- consumer
- journals
- organizations
- info
- blogs
- podcasts

read the latest medical news and get RSS feeds by category:
MedWorm example - rivaroxaban

MedWorm Query: rivaroxaban
Find out how you can get your message across here by sponsoring this MedWorm news feed.

- 105 records returned

RECORD results for rivaroxaban in VTE prevention
Source: Inpharma - July 14, 2008 Category: Drugs & Pharmacology Tags: Short communication Source Type: journals

RECORD results for rivaroxaban in VTE prevention
Page: 11 Authors: Pene, S Source: Inpharma Weekly - July 13, 2008 Category: Drugs & Pharmacology Tags: Abstract HTML Source Type: journals

Pharmacological strategies for inhibition of thrombin activity
For decades, the options for therapeutic anticoagulation were limited to unfractionated heparin (UFH) and vitamin K antagonists (VKA), and their well-known limitations had to be accepted. With the introduction of the various LMWHs, the short-term anticoagulation could be much improved. The heparins delivered the proof of concept that FXa and thrombin represent suitable targets for therapeutic anticoagulation. Consequently, the search for new anticoagulants focus on inhibitors of thrombin or FXa. Apart from the VKA, the anticoagulants presently available or in an advanced stage of development can thus be divided in two...

Novel oral anticoagulant reduces VTE risk in arthroplasty patients
The investigational oral factor Xa inhibitor rivaroxaban is more effective than the low molecular weight heparin enoxaparin at preventing venous
The Evolution of Healthcare Records
The evolution of healthcare records

- The Internet has become ubiquitous and widely available within the U.S. and other industrialized countries.
- Frustration with paper-driven healthcare is increasing as the rest of the world goes “digital”.
- The tipping point technology is simpler and widely available -- Web 2.0 applications make things simpler and sharing easier.
- Large technology companies have shifted attention to the healthcare market.
- The rise of Personal Health Records (PHR) systems
  - Low cost (free in some cases)
  - Patient-centered in design
  - Offer integrated access to healthcare services
Personal Health Records

- PHR - personal health record
  - systems that allow patients to store and control medical information
  - have been around for 5-7 years, but have not become widely used - probably because PHR companies could not figure out ways to have providers share data with patients
  - recent events - mainstream companies and large consortia coming together to offer PHRs to pipeline healthcare services directly to patients
    - GoogleHealth
    - Microsoft HealthVault
    - Dossia
GoogleHealth v1.0 (2008)
GoogleHealth integration with external record systems

These websites offer personal health services.
When you link a website to your profile, you may authorize that website to read your Google Health profile or to automatically update information in your profile (such as medical records or prescription histories). You decide which permissions to give with each website.

Google doesn't own or endorse these websites and isn't responsible for their content or performance. The Google Health profiles do not pertain to other web sites, so check each service's privacy policy and share information only with sites you trust.

**Beth Israel Deaconess Medical Center**
Beth Israel Deaconess Medical Center is a patient care, teaching and research affiliate of Harvard. BIDMC offers a patient portal, called Patientsite, that connects its patients to their medical records; as a patient at BIDMC, you can securely import your medical records from BIDMC to your Google Health account.

**Cleveland Clinic MyChart**
MyChart is an encrypted, online health management tool that gives Cleveland Clinic patients access to their medical records. You can securely import your MyChart records into your Google Health Profile. MyChart is a registered trademark of Cleveland Clinic Systems Corporation, © 1999-2008. Patents pending.

**Longs Drug Stores**
Longs Drug Stores is a leader in pharmacy services. Working with Google, Longs now lets you import your prescription history from Longs.com into Google Health. If you get your prescriptions filled at Longs, you'll have a current list of all your medications securely imported into your Google Health Account.
GoogleHealth integration example
GoogleHealth partner services

These websites offer personal health services. When you link a website to your profile, you may authorize that website to read your Google Health profile or to automatically update information in your profile (such as medical records or prescription histories). You decide which permissions to grant with each website.

Google doesn’t own or endorse these websites and isn’t responsible for their content or performance. The Google Health service is not a health or medical website, so check each service’s privacy policy and share information only with sites you trust.

- Cleveland Clinic MyConsult
  MyConsult is an online medical service that connects anyone, anywhere, to Cleveland Clinic physicians. Cleveland Clinic physicians provide medical second opinions, and pre-adoption and nutrition consultations.
  
- ePillBox.info
  ePillBox.info by Solventus is a free web application that uses information from your Google Health profile to create a medication schedule based on your prescriptions and your preferences.

- Heart Attack Risk Calculator
  This American Heart Association risk calculator uses values from your Google Health profile to estimate the chance of having a heart attack or dying from heart disease over the next 10 years.
Microsoft HealthVault

HealthVault Platform Architecture

Applications

Partners

Live Search Health

Microsoft HealthVault

Microsoft HealthVault Connection Center

Devices
Welcome, Mike Hogarth
Microsoft HealthVault is a new personal health platform that lets you gather, store, and share health information online.

You are working with the following Health Record:

Health Details
View or add health information for this record in your account, including information added by the many programs that work with HealthVault.
Go to Health details

Switch to another record:
You only have one record. Click here to add more

View all records
Create a new Health Record

When it’s your job to protect your family, you need every advantage. Imagine if you could easily collect, store, and share health information critical to your family’s well-being.

HealthVault is the new and free way to do that.
HealthVault Programs

Authorized Programs

Blood Pressure Management Center
Connecting a Back-End Clinical System to HealthVault

Introduction

This document provides HealthVault solution providers with information about how to connect back-end clinical systems to HealthVault. For the purposes of this document, a back-end clinical system is defined as a system used in a clinical setting where there is no online front-end for the patient. When this type of system is involved in sending or receiving information to/from patient HealthVault records, the basic problem that needs to be solved is how patients authenticate themselves online. In other words, how do you make sure that patient data is sent to the right person’s HealthVault record?

Basic Tenets

1. The patient’s HealthVault record is controlled by the patient (and/or a person they’ve chosen to help manage their health information).
   - The patient has the right to create, read, update, and delete any data.
   - Access to the HealthVault data must be authorized by the patient, and the patient can revoke someone’s access at any time.

2. The patient’s clinical record is controlled by the provider.
   - The provider is responsible for the data that gets saved into the patient’s clinical record.
   - The provider must adhere to relevant state and federal regulations with respect to the patient’s clinical information.
HealthVault Applications: 2008
HealthVault and devices

Health and Wellness Devices
Be well. Connected.

Find home health and wellness monitoring devices like sport watches, blood glucose monitors, peak flow meter, and blood pressure monitors that work with HealthVault Connection Center.

Download HealthVault Connection Center

<table>
<thead>
<tr>
<th>PARTNER</th>
<th>WEB SITE</th>
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<tbody>
<tr>
<td>A&amp;D Medical</td>
<td><a href="http://www.telemedicine.jp">www.telemedicine.jp</a></td>
</tr>
</tbody>
</table>

A&D Medical’s Precision Weight Scales provide highly accurate and precise measurements for telemedicine applications. This scale is one of the thinnest and lightest scales on the market offering more precise readings and functionality than traditional scales.

A&D Medical’s Blood Pressure Monitors provide highly...
Dossia

Founder of the Lifelong Personally-Controlled Health Record

Soon complete information about your medical history will be available whenever you need it: for routine doctor visits, when you get sick away from home, in an emergency or even after a fire or natural disaster that could destroy paper records.

Employers are creating Dossia to provide consumers with an important new health benefit: a lifelong personal health record that they own and control.

Member Companies

Consumers

Your Dossia Personally-Controlled Health Record

Initial Participants:
Employees, Family Members and Dependents

Founders

The Dossia Founders Group

Founding Members:

News and Events

Dossia Announces New For Technical Collaboration
What is Dossia?

About the Dossia Founders Group

The Dossia Founders Group is a consortium of large employers united in their goal of providing employees, their dependents, retirees and others in their communities with an independent, lifelong health record.

Dossia founders are funding Dossia, an independent secure, non-profit infrastructure for gathering and securely storing information for lifelong health records.

At the request of employees and other eligible individuals, Dossia gathers health data from multiple sources.

Employee participation as a Dossia user is completely voluntary and individuals have complete control over who sees their information.

Once gathered and securely stored in a decentralized database, the health information is continually updated and is available to individuals for life even if they change employers, insurers, or doctors.


The Dossia project has been endorsed by the American Academy of Pediatrics, the American Academy of Family Physicians, the Centers for Disease Control and Prevention and the National Association of Manufacturers.
Dossia Framework
Other interesting developments
MyVitalData - Emergency EMR

How It Works!

You choose the information you want made available in an emergency...data that can be accessed by authorized medical personnel through a secure website or toll-free phone number. MyVitalData authenticates every inquiry to ensure only approved emergency professionals receive your information.

Learn More

Why MyVitalData?  How It Works  Sign Up!
Life Record - iPhone application
Spain Opens Second Life Clinic for Teens

Posted May 10, 08 5:54 PM CDT in World, Technology, Science & Health

(Newser) – Spanish health officials are opening a virtual clinic in the popular online world Second Life, where they plan to advise teens who are reluctant to consult flesh-and-blood doctors, the Guardian reports. It will appear as a consultation room for now, but officials hope to expand the service eventually “deal with problems of dermatology, psychology through a webcam,” one doctor said.

“Teenagers do not often go to see the doctor, another doctor involved in the virtual clinic.
Questions?