

Apple Watch



- **Apple Watch is a Dud**

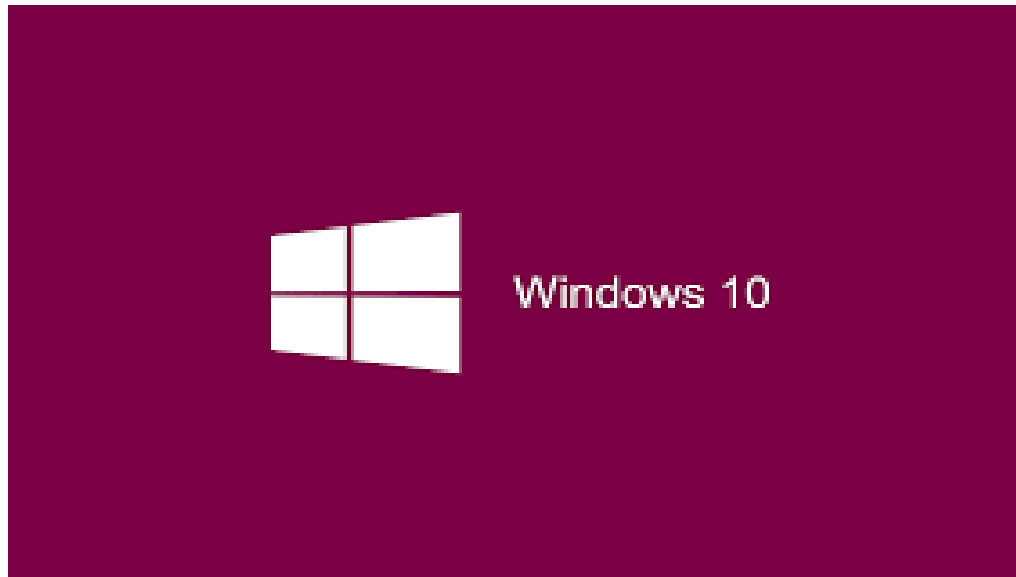
A recent Review by Paul Boutros

Nine Reasons I am ready to Love Windows 10

1. Cortana, The digital assistant
2. Windows Store for multi-device purchases
3. Windows Hello's facial recognition sign-on
4. Windows Continuum for phones
5. Microsoft Edge, the fast new web browser
6. Touch
7. Ebox Integration
8. The new Start Menu
9. It Just Works

Windows 10

- A quick look at some of the new features



Patient Portal



Medical Gadgets

- [Medical Technology News](#)
[MedGadget](#)

Disruptive Inflections in Technology

- Some thoughts from a recent article
in The New York Times

Electronic Medical Records

- Paper Charts VS Digital Charts
- Sample chart / With Images
- Input Methods / Illustration
- Integration Critical to Success
- Benefits

Paper Charts



Digital Charts



Download from
Dreamstime.com

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ID 47381019

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Clinical Documentation

The screenshot shows a software window titled "Logician - Harry S. Winston MD @ Southside Clinic (LOCAL) - 03/09/2005 10:39 PM - [Chart]". The main window is for "OB Initial Intake-CCC: Mrs. Monica C. Obear". The patient is identified as "Mrs. Monica C. Obear, 30 Year Old Female (DOB: 01/14/19...)" with "Doc ID: 8".

OB Initial Intake Information
(Items in dark blue can be updated in Registration module)

Positive HCG by: self
Race: White
Marital status: Married
Occupation: Mortgage Broker
Type of work:
Education (last grade completed): BA
children at home: 3
Note: Remember to include VMC and/or YPN enrollment if appropriate.
(on OB Prenatal Ed form)

Hospital of delivery: Mercy Hospital
Newborn's physician: Dr. John Janas

FOB Info
Husband/Father of baby: Steven Obear
FOB occupation: Carpenter
Phone: 603-777-8888
FOB:
Comments:

Menstrual History
Previous Best Working EDC==>
LMP (date): 12/02/2002 EDC Calculator EDC by LMP==>
New Best Working EDC==>
LMP - Character: Normal LMP - Reliable? Yes (selected) / approximate (month known) / No
Menarche (age onset): 12 years
Menses interval: 28 days
Menstrual flow (days): 4 days
On BCP's at conception: no (selected) / yes
Date of + home preg. test: 01/16/2004

Enter Pre-Pregnancy Weight Below!
Pre Pregnancy Weight (lbs):
Symptoms since LMP:
 amenorrhea
 nausea
 vomiting
 fatigue
 irritability
 bloating
 tender breasts
 urinary frequency
Other symptoms:

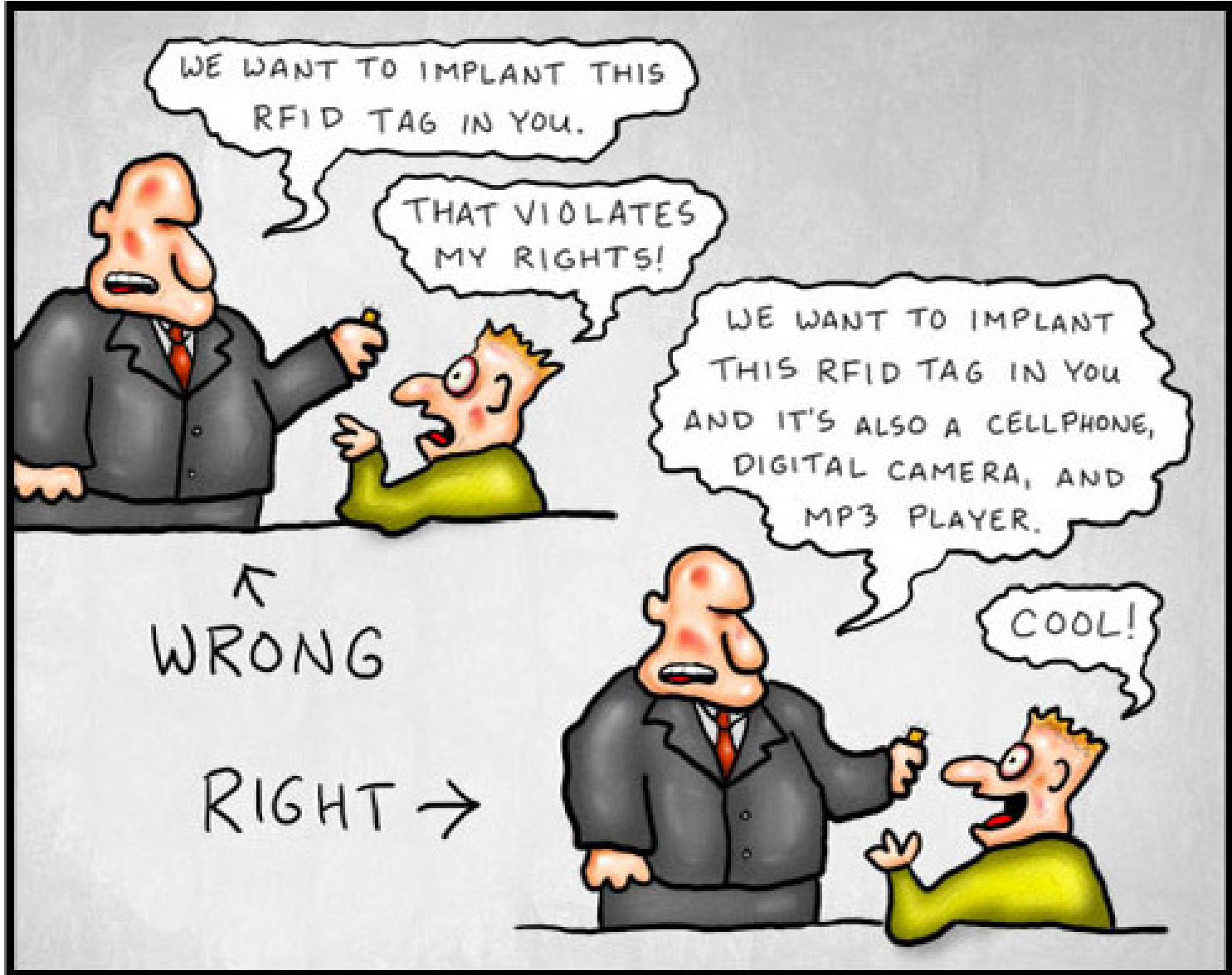
Buttons: Intake, Prenatal Visit, Past Preg Hx, PMH, FH/SH, ROS, Risk-General, OB Problems, Genetic, Flowsheet, PE, Lab, Prenatal Ed, A.P, Ultrasound, PAP Entry, Instructions/Plan, Copyright, Prev Form (Ctrl+PgUp), Next Form (Ctrl+PgDn), Close

Prenatal Education Provided:
1) Hazards of smoking and pregnancy reviewed; smoking cessation strongly encouraged and smoking cessation techniques reviewed.

[OB-Gyn Problems-CCC]
[OB-Gyn CPOE A&P-CCC-1]

For Help, press F1

Full ACOG OB/GYN Set of Documentation



WE WANT TO IMPLANT THIS RFID TAG IN YOU.

THAT VIOLATES MY RIGHTS!

WE WANT TO IMPLANT THIS RFID TAG IN YOU AND IT'S ALSO A CELLPHONE, DIGITAL CAMERA, AND MP3 PLAYER.

COOL!

↑
WRONG

RIGHT →



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"It's a great spa. You just relax while they do a makeover on your Electronic Medical Record. Now I'm blonde, lost 30 pounds, and no high blood pressure."

Image Enabled

Logician - Harry S. Winston MD @ Southside Clinic (LOCAL) - 03/10/2005 12:11 AM - [Chart]

Go Actions Options Help

Desktop Chart Appts Reg Reports New View Print Internet Help EXIT

Marilyn A. Stone **CHECK PROTOCOLS** Home: 503-693-6588 Work: None Receipt of Privacy Notice: None
 78 Year Old Female (DOB: 04/23/1926) Patient ID: 107-TEST011 Insurance: CHC (Gold Plan) ROI Restrictions: None

Find Pt. Protocols Graph Handouts Update Phone Nt. Refills Edit Sign Append Route Organize

Summary Problems Medications Alerts Flowsheet Org

Document View: All

	Date	Summary
02/16/2004 1:30	Lab Rpt	
02/16/2004 1:30	Lab Rpt	
02/16/2004 1:30	Lab Rpt	
02/16/2004 1:30	Lab Rpt	
02/16/2004 1:30	Lab Rpt: Dexa Scan	
11/03/1998 12:00	Phone: Discussed lab results	
11/02/1998 12:00	Imag Rpt: Bilateral Mammography	
11/01/1998 6:00	Lab Rpt: PT	

Doc ID: 9 Properties: Lab Report at SOUTH on 02/16/2004 1:30 PM by Harry S. Winston

! Left Femur Shaft BMD	113 % (C)
! Left Femur Shaft BMC	1.302 g/cm2 (C)
! Left Femur Shaft Area	17.38 g (C)
Left Femur Total BMD	13.36 cm2 (C)
! Left Femur Total BMC	1.107 g/cm2 (C)
! Left Femur Total Area	33.37 g (C)
Left Femur Total T-Score	30.15 cm2 (C)
! Left Femur Total %YA	0.8 (C)
Left Femur Total Z-Score	110 % (C)
! Left Femur Total %AM	1.3 (C)
Right Femur Neck BMD	117 % (C)
! Right Femur Neck BMC	1.030 g/cm2 (C)
! Right Femur Neck Area	4.47 g (C)
Right Femur Neck T-Score	4.34 cm2 (C)
	-0.1 (C)

Centricity Clinical Information View 7.0.0 - Microsoft Internet Explorer

GE Medical Systems Bishop, Caroline 46 yo F Jul 18 1956 12:00AM MRN: 10006 Unit: ICU: MSS-08: P
 Admit: 1/9/2003 Allergies: Peni >>> Weight: Weighed (kg) 81.5 POD: Visit#: 999999999

Census Face Daily Sm Visit Sm Flow Labs Notes Orders MAR RAD EKG Cardio MDN Asmt AD MD Doc Ops Utils LogOff

MITCHELL logged in on Wednesday, October 29, 2003 7:34:37 PM

BISHOP, CAROLINE
 CT HEAD W/VO CONTRAST
 1/18/2003 8:48:07 PM
 POST HEAD

Se: 3 Im: 22 [AH]

BISHOP, CAROLINE
 Study Date: 1/18/2003
 Study Time: 4:04:07 PM
 MRN: 10006

POST HEAD
 300 OMNIP90CC

Viewport Series Study All C42 W155

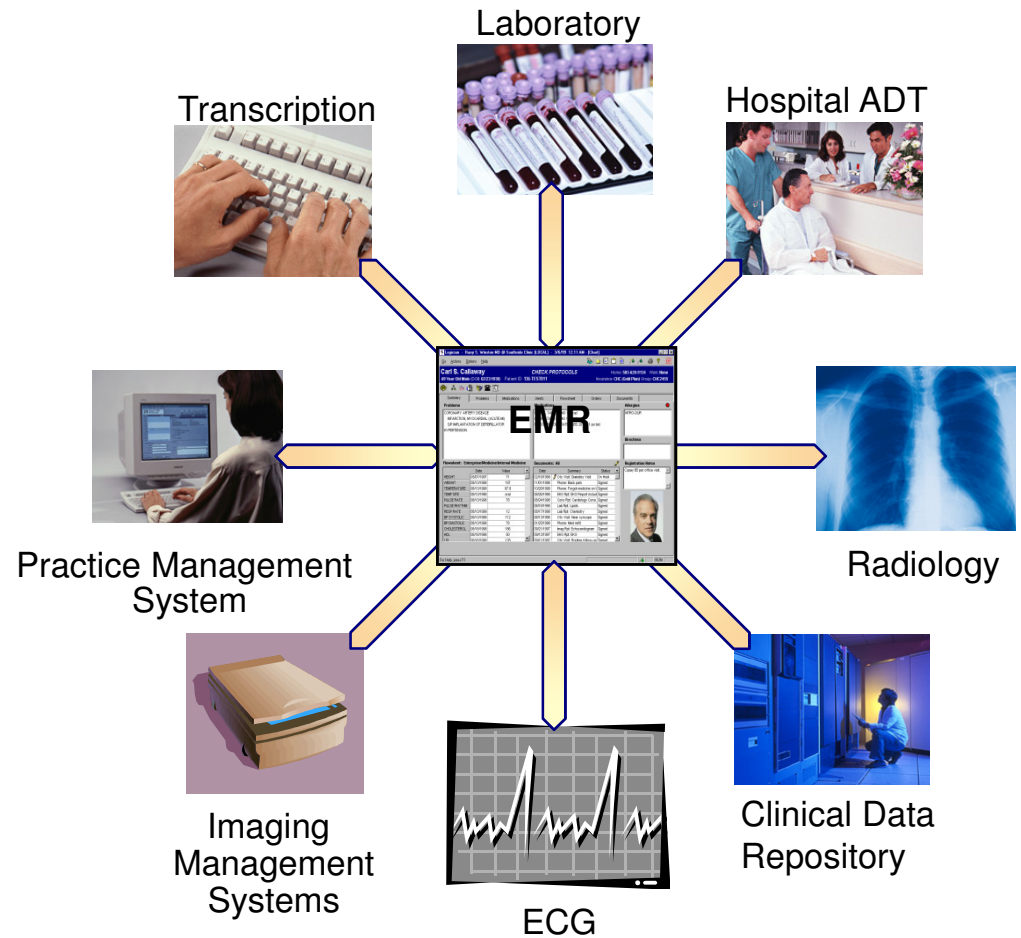
Default Compression

Patient info Exam info Report Muse CV Web Muse W Worklist

For Help, press F1

Integration Critical to Success

- Most Information is Generation outside of your EMR.
 - Transcription Systems
 - Laboratory Information Systems
 - Hospital ADT systems
 - Radiology Systems
 - Enterprise-wide Clinical Data Repositories
 - EKG Systems
 - Imaging Management Systems
 - Other Practice Management Systems
 - Other EMRs



TRADITIONAL PAPER RECORDS **VS.** Electronic Health Records

Time Benefits



SPECIALISTS spend **50 hours** or more in direct patient care per week.



PRIMARY CARE PHYSICIANS only spend **30-40 hours** a week in direct patient care because of heavy paperwork and admin duties.

NURSES using EHR have seen reductions in documentation time by up to **45%**



USING COMPUTERS to enter patient data increases the **completeness of the information**, so staff time spent searching for missing data decreases.

EACH PATIENT VISIT requires approximately **10-13 pieces of paper**.

And a large percentage of physicians see **50-99 patients a week**.



So each physician accumulates around **975 new pages** of paper work each week.

1000s of tons of paper are consumed by the healthcare industry each year, causing storage issues and environmental harm.



Environmental Benefits

ORGANIZATION

Paper-based records dispersed across different medical facilities are often incomplete, contributing to unnecessary, repeat testing and treatment. Dispersed records are also inefficient because new providers have to retrieve a patient's charts and notes from multiple offices.

EHR reduces the redundancies across healthcare providers and allows the assembly of a complete record of patient history in one easily accessible file. A complete patient record in digital format makes it easier to generate longitudinal reports that can improve extended care.

SHARING RECORDS

Paper record systems waste valuable time because office staff has to transfer records by fax or mail. Because a patient's paper records across healthcare providers aren't stored in a centralized location, it's often difficult to put together a complete history.

With EHR, exchanging information is faster because office staff can skip the retrieval and faxing process and transfer records electronically. EHR provides access to complete medical information about a patient, so other providers don't have to fill in partial records.

ACCESSIBILITY

Doctors' access to medical records is limited by location and office hours. This can impact your patients' health in unusual circumstances, such as in an emergency procedure or when vital medication is misplaced.

Web-based EHR provides 24/7 access to patient records and lab results from any location with internet access. Using mobile applications, physicians can access records on-the-go, between appointments or while on rounds.

Financial Benefits



OUTPATIENT facilities that adopt and use an EHR over 15 years could have net savings of **\$142BILLION**



INPATIENT settings that adopt and use EHR over the same time period experience net savings of **\$371BILLION**

IN 2009, independent physician practices using EHR had almost **\$50,000 greater total revenue** per full-time physician than practices using paper-based systems.

AFTER 5 years of using EHR, practices reported an operating margin **10.1% higher** than practices in their first year of EHR use.



APPROXIMATELY 4.5 MILLION ambulatory visits related to adverse drug events occur annually in the U.S.

ABOUT 400,000 of these instances result in hospitalization.

These adverse drug events could be avoided by using EHR to **track patient medication history** and to **flag patients** prescribed to several medications



Health Benefits

The Digital Doctor

- [A review by Akanksha Jayanthi](#)
- [A review by Abigail Zuger, MD](#)
- [A review by Christopher M, Doran](#)

Abraham Verghese: A Doctor's Touch

Modern medicine is in danger of losing a powerful, old-fashioned tool: human touch. Physician and writer Abraham Verghese describes our strange new world where patients are merely data points, and calls for a return to the traditional one-on-one physical exam.

Conclusion – My Thoughts

- **The Patient will see you now**
- **The Digital Doctor**

The Patient will see you now

- Smartphones will revolutionize Healthcare
- No more demeaning doctor visits
- There will be no more hospitals
- Medical diagnosis will be streamlined
- Small sensors will track health data real-time
- Medical care is more than data management or disease management
- Do patients really want to be their own doctor (challenge of distilling information)

The Digital Doctor

- There is more than Epic versus Athenahealth
- Too much stress on Epic and single error
- Interoperability between systems (no incentive for hospitals to cooperate)
- Too much faith in computer systems
- Computers should become servants
- Computer code & interpersonal components
- Data entry while keeping eye contact
- Government's failure to define one standard