









New patier	t Search Archiv	/e New pers	son
:: Immuniza	tion		
Admission Nr.	2004500000		•••
Title:	Senor	1	Options for this patient 🤕
Family name:	Mario	120	Confirmation of inability to wor
Given name:	Banderas	100	Charts folder
Date of birth:	08/07/2004		🤛 Diagnostic Results
Sex:	male		Medocs
Blood group:	AB		DRG (composite)
Date	08/07/2004 📷		Prescriptions
Type	Tetagam		Notes & Reports
Medicine	Anti-totenuc immunization		₽ Immunization
weatchie	Anteretarius inimunization	- 🖉 Search :: Imm	unization (Immunization) - Mozilla
Dosage	j2 mg./dl		
Titer	345 Search :: Immunization (Immunization)		
Refresh date	08/06/2006 🐜		
Application type			
Application by			
Application by	Jaamin		
Notes		Sea	rch
Save Admission	n data IIIIII Barcode labels	Make Make	cklist















EHR Core Capabilities – Active Participation in Clinical Care (Physicians)

Health information and data capture and its management

- Provide access to key patient information such as patients' diagnoses, allergies, lab test results, and medications
- Result management
 - * Allow all care providers have quick access to new and past test results

Order management

 Enable care provides to enter and store orders for prescriptions, tests, and other services

Decision support

- Provide reminders, prompts, and alerts to
 - ensure regular screenings
 - preventive practices
 - identify possible drug interactions
 - facilitate diagnoses and treatments

Electronic communication and connectivity

 Provide efficient, secure, and readily accessible communication among providers and patients



EHR Functions

- Provide secure, reliable, real-time access to patient health information when and where it is needed
- Captures and manages episodic and longitudinal patient information
- Functions as the care providers primary information resource during the provision of patient care
- Assists with the planning and delivery of patient care
- Captures data used for quality improvement, risk management, resource planning and performance management
- Captures patient information for billing and reimbursement (insurance)
- Support clinical research
- Supports clinical trials and evidence-based research



- Replaces paper-based medical records
 - Paper-based records are incomplete, fragmented (different parts in different locations), hard to read and (sometimes) hard to find
- Provides a single, shareable, up to date, accurate, rapidly retrieveable source of information that is potentially available anywhere at any time
- Requires less space and administrative resources
- Potential for automating, structuring and streamlining clinical workflow.
- Provides integrated support for a wide range of discrete care activities
 - decision support, monitoring, electronic prescribing, electronic referrals radiology, laboratory ordering and results display
- Maintains a data and information trail that can be readily analyzed
 - medical audit, research and quality assurance, epidemiological monitoring, disease surveillance
- Supports continuing medical education
 - 17 © Dr. Syed Sibte Raza Abidi, (www.cs.dal.ca/~sraza)

EHR Barriers

Technical matters

- uncertain quality, functionality, ease of use, lack of integration with other applications
- Financial matters -
 - initial costs for hardware and software, maintenance, upgrades, replacement, ROI

Resources issues

- training and re-training; resistance by potential users; implied changes in working practices.
- Certification, security, ethical, privacy and confidentiality issues
- Doubts on clinical usefulness
- Incompatibility between systems
 - user interface, system architecture and functionality can vary significantly between suppliers' products



- ... electronic application[s] through which individuals can maintain and manage their health information (and that of others for whom they are authorized) in a private, secure, and confidential environment"
- * " ... an Internet-based set of tools that allows people to access and coordinate their lifelong health information and make appropriate parts of it available to those who need it. PHRs offer an integrated and comprehensive view of health information, including information people generate themselves such as symptoms and medication use, information from doctors such as diagnoses and test results, and information from their pharmacies and insurance companies"

19 © Dr. Syed Sibte Raza Abidi, (www.cs.dal.ca/~sraza)

Types of PHR

- A provider-owned and provider-maintained digital summary of clinically relevant health information made available to patients
- A patient-owned software program that lets individuals enter, organize and retrieve their own health information
 - patient's concerns, problems, symptoms, emergency contact information, etc.
- A portable, interoperable digital file containing selected, clinically relevant health data that can be managed, secured and transferred
 - Smart cards, personal digital assistants, cellular phones and USBcompatible devices that can be plugged into almost any computer



PHR Advantages

- Consumer-focused; patient-focused.
- Empower patients to be more involved in their own healthcare decisions
- Promote preventive self-care
- Support self-care of chronic diseases
- Help improve patient health data validity and quality control
- Support patient safety initiatives
- * Support patient and health services mobility and shared care
- Provide ready access to emergency patient data
- Provide content to help populate a life-long EHR
- * Streamline communications between citizens and healthcare providers.

