

# The Obama Healthcare IT Plan

## An Insider's View

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## The Bush Administration Plan

- Office of the National Coordinator - \$50 million in funding
- American Health Information Community/Use Cases
- Certification Commission on Health Information Technology
- Health Information Security and Privacy Collaboration
- Healthcare Information Technology Standards Panel
- Focus on Technology Features and Products

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## The Obama Administration Plan

- Office of the National Coordinator - \$2 billion in funding
- HIT Policy Committee
  - Meaningful Use Workgroup
  - Certification/Adoption Workgroup
  - Health Information Exchange Workgroup
- HIT Standards Committee
  - Clinical Quality Workgroup
  - Clinical Operations Workgroup
  - Security and Privacy Workgroup
- National Institute of Standards and Technology

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## Improve Quality, Safety, Efficiency 2011 Objectives

- Capture data in coded format
  - Maintain current problem list
  - Maintain active medication list
  - Maintain active medication allergy list
  - Record vital signs (height, weight, blood pressure)
  - Incorporate lab/test results into EHR
  - Document key patient characteristics (race, ethnicity, gender, insurance type, primary language)
- Document progress note for each encounter (outpatient only)
- Use CPOE for all order types
  - Use electronic prescribing for permissible Rx
  - Implement drug-drug, drug-allergy, drug-formulary checks
- Manage populations
  - Generate list of patients by specific conditions (outpatient only)
  - Send patient reminders per patient preference

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## **Improve Quality, Safety, Efficiency**

### **2011 Measures**

- % Labs incorporated into EHR in coded format
- % CPOE orders entered directly by physician
- Report quality measures using HIT-enabled quality measures (HIT-QM)
  - % Diabetics with A1c under control
  - % Hypertensives with BP under control
  - % LDL under control
  - % Smokers offered smoking cessation counseling
  - % Patients with recorded BMI
  - % Colorectal screening for 50+
  - % Mammograms for women 50+
  - % Current pneumovax status
  - % Annual flu vaccination
  - % Aspirin prophylaxis for patients at risk for cardiac event
  - % Surgical patients receiving VTE prophylaxis
  - Avoidance of high risk medications in elderly
- Quality reports stratified by race, ethnicity, gender, insurance type <sup>5</sup>

## **Engage Patients and Families**

### **2011 Objectives**

- Provide patients with electronic copy of- or electronic access to- clinical information per patient preference
  - Includes labs, problem list, medication list, allergies
- Provide access to patient-specific educational resources
- Provide clinical summaries for patients for each encounter

## **Engage Patients and Families**

### ***2011 Measures***

- % Patients with electronic access to personal health information
- % Patients with access to patient-specific educational resources
- % Encounters where clinical summary provided

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## **Improve Care Coordination**

### ***2011 Objectives***

- Exchange key clinical information among providers of care
- Perform medication reconciliation at relevant encounters

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## **Improve Care Coordination**

### ***2011 Measures***

- Report 30 day readmission rate
- % Encounters where medication reconciliation performed
- Implemented ability to exchange health information with external clinical entities
  - Problems, labs, medication lists, care summaries
- % Transitions in care where summary care record is shared (in 2011, could use any modality)

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## **Improve Population and Public Health**

### ***2011 Objectives***

- Submit electronic data to immunization registries where required and can be accepted
- Submit electronic reportable lab results to public health agencies
- Submit electronic syndrome surveillance data to public health agencies according to applicable law and practice

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## **Improve Population and Public Health**

### ***2011 Measures***

- Report up-to-date status of childhood immunizations
- % Reportable lab results submitted electronically

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## **Ensure Privacy and Security Protections**

### ***2011 Objectives***

- Compliance with HIPAA Rules and state laws
- Compliance with fair data sharing practices set forth in the National Privacy and Security Framework

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## Ensure Privacy and Security Protections 2011 Measures

- Full compliance with HIPAA
  - Entity under investigation for HIPAA violation cannot achieve meaningful use until entity is cleared
- Conduct or update a security risk assessment and implement security updates as necessary

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ARRA lead to  
creation of



All based on  
Previous HITSP  
work



HITSP – enabling healthcare interoperability

HITSP Capabilities		
ADMINISTRATIVE and FINANCIAL		CAP140 Exchange Administrative Benefits/Eligibility transactions specification
		CAP141 Exchange Administrative Referral/Authorization Transactions Specifications
		CAP142 Retrieve Communications Recipient
		CAP143 Consumer Preferences and Consent Management
CLINICAL OPERATIONS (Care Delivery, Emergency Responder and Consumer Empowerment)		CAP146 Identification of communications Recipient Specifications
	Medication Management	CAP117 Communicate Ambulatory and Long Term Care Prescription Specification
		CAP118 Communicate Hospital Prescription Specification
		CAP119 Communicate Structured Document Specification
	Exchange of Clinical Data	CAP120 Communicate Unstructured Document Specification
		CAP121 Communicate Clinical Referral Request Specification
		CAP122 Retrieve medical Knowledge Specifications
		CAP123 Retrieve existing data Specifications
	Exchange of Laboratory and Imaging Data	CAP124 Establish Secure web access Specifications
		CAP125 Retrieve Genomic Decision Support Specifications
		CAP126 Communicate Lab Results Message Specifications
		CAP127 Communication of Lab Results Document Specifications
		CAP128 Communicate Imaging Information Specifications
CLINICAL QUALITY AND PUBLIC HEALTH	Quality Management	CAP129 Communicate Quality Measure Data Specifications
		CAP130 Communicate Quality Measure Specification Specifications
	Immunization	CAP131 Immunization Registry update Specifications
		CAP132 Immunization Registry Query Specifications
		CAP133 Communication of Immunization Summary Specifications
	Case Reporting and Bio-surveillance	CAP135 Retrieve Pre-populated Form for Data Capture Specifications
		CAP136 Emergency Alerting Specifications
		CAP137 Send and Receive clinical data message Specifications
	Emergency	CAP138 Assign pseudo-identity Specifications
		CAP139 Communicate Resource Utilization Specifications

## Recommended Standards – Readiness Ratings

1. Mature; known or certain to be implementable in 2011; implemented widely (>20%) in industry
2. Ready for introduction; known/certain for 2013
3. Well developed; work in progress for 2013 / 2015
4. In development; standards to be determined

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## Standards For Quality Measurement

2011 Measure	HHS Adopted EHR Standards	Other Widely Accepted Standards	Gaps In Standards	Feasible For 2011	Feasible For 2013	Notes / “Reality Check”
% patients at high risk for cardiac events on aspirin prophylaxis [OP]	Standards referenced in HITSP specifications for CCD; e-prescribing; medication management	N/A	Standards-based definition of high risk patients.  Standards for patient self-reporting of medications	Measures based on ICD-9  – or –  2013 standards	Measures based on SNOMED-CT problems, RxNorm and other standards in relevant HITSP specifications	Adopted HHS EHR standards are not fully tested nor widely deployed for this use.

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## Standards for Quality Measurement

2011 Measure	Recommended 2011 Standards	Recommended 2013 Standards	Directional Statement Of Intent
% diabetics with A1c under control [EP]	Standards in HITSP capabilities 117, 118, 119, 126, 127, 140, ICD-9 allowed in place of SNOMED CT	Standards in HITSP capabilities 117, 118, 119, 126, 127, and ICD-10 allowed in place of SNOMED CT	Remote device monitoring to be added in 2013 or 2015  SNOMED CT to be required as applicable in 2015

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## Privacy and Security Standards

Short Title	Services Supported	1	2	3	4
HL7 Version 3 Standard: Role Based Access Control (RBAC)	Access control		x		
OASIS eXtensible Access Control Markup Language (XACML)	Access control			x	
OASIS Security Assertion Markup Language (SAML) v2.0	Access control	x			
OASIS WS-Trust	Access control		x		
ISO/IEC Common Criteria for Information Technology Security Evaluation	Assurance certification		x		
IHE Audit Trail and Node Authentication (ATNA) Profile	Audit		x		
ASTM Standard Guide for Electronic Authentication of Health Care Information	Authentication	x			
IETF Kerberos	Authentication	x			
IHE ITI-TF Authentication	Authentication		x		
IHE ITI-TF Cross-Enterprise Document Sharing-B (XDS.b)	Authentication; Consent management		x		
IHE ITI-TF Enterprise User Authentication (EUA)	Authentication	x			
IHE ITI-TF Cross Enterprise User Assertion (XUA)	Authentication		x		
OASIS Simple Object Access Protocol (SOAP)	Authentication	x			

\*See hand-out for further details

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## Privacy and Security Standards

Short Title	Services Supported	1	2	3	4
HL7 V3 Data Consent	Consent management				x
IHE ITI-TF Basic Patient Privacy Consents (BPPC)	Consent management		x		
IHE ITI-TF Registry Stored Query Transaction for XDS Profile Supplement	Consent management		x		
OASIS/ebXML Registry Information Model v3.0	Consent management		x		
OASIS/ebXML Registry Services (ebRS) Specifications	Consent management		x		
IETF Network Time Protocol (NTP)	Consistent time	x			
IETF Simple Network Time Protocol (SNTP)	Consistent time	x			
IHE ITI-TF Consistent Time (CT)	Consistent time	x			
HIPAA Privacy Rule: Deidentification	Deidentification	x			
HIPAA Privacy Rule: Pseudonymization	Deidentification	x			
HL7 Version 3.0 Clinical Genomics; Pedigree (Anonymization)	Deidentification		x		
IETF Domain Name Service (DNS)	Identity Management	x			
IETF Lightweight Directory Access Protocol (LDAP)	Identity Management	x			
IHE ITI-TF Personnel White Pages (PWP)	Identity Management			x	
IETF Language Tags	Identity Management	x			

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## Privacy and Security Standards

Short Title	Services Supported	1	2	3	4
IHE ITI-TF Cross Community Access (XCA)	Infrastructure		x		
IHE ITI-TF Cross-Enterprise Document Sharing-B (XDS.b)	Infrastructure		x		
ETSI XML Advanced Electronic Signatures (XadES)	Non-repudiation			x	
HIE ITI-TF Document Digital Signature (DSG) Content	Non-repudiation			x	
IETF Cryptographic Message Syntax	Non-repudiation; secure email	x			
ISO Health Informatics, Public Key Infrastructure (PKI)	Non-repudiation			x	
FIPS 197, Advanced Encryption Standard (AES)	Secure transmission	x			
IETF Transport Layer Security (TLS) Protocol	Secure transmission	x			
IHE ITI-TF Cross-Enterprise Document Media Interchange (XDM)	Secure email		x		

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