

Interoperability Scenarios

Care Theme: Care Coordination

Act 26 - Subscription Services Facilitate Care Coordination

Scenario Primary Goal: To demonstrate efficient cross-discipline care coordination for a patient. This scenario demonstrates how a physician can establish himself as the overall coordinator of a patient's care, e.g. a Medical Home designee, and use subscription services to receive notifications on any other care provider to this patient outside his own office.

Key Points

- Physician subscribing to a patient's care coordination
- Emphasis on the capability of exchanging clinical information
- Publish / Subscription notification functionality of the HIE Core Services

Meaningful Use Relevance

MU Objective 2: Improving Care Coordination

- NHIN Service Interface Specifications for Patient Discovery

Clinical Workflow:

A primary care physician (PCP) agrees to serve as the overall coordinator for a diabetic patient's care across all its care providers. The PCP subscribes with his local HIE Services to be notified whenever any clinical documents have been posted for this patient. The diabetic patient visits a podiatrist for a routine foot examination.

The podiatrist documents and posts the encounter to the HIE Services repository which then checks if any publication subscriptions exist for that patient. The PCP receives the notification from the HIE Services that care has been given to the patient and retrieves the encounter summary for the patient to update his EMR.

Care Scenario Steps:	Care Setting From	Care Setting To	IHE Profiles*	Title	HITSP Constructs	Title
26-1 A primary care physician (PCP) agrees to serve as the overall coordinator for a diabetic patient's care across all its care providers. To support this, the physician subscribes with his local HIE Services to be notified whenever any clinical documents have been posted for this patient	PCP Office	HIE Services	DSUB (ITI)	Document Subscription	NHIN HIEM	Health Information Event Messaging
26-2 The diabetic patient visits a podiatrist for a routine foot examination as part of care regimen. The podiatrist documents and posts the encounter to the HIE Services repository.	Specialist Office	HIE Services	XDS-MS (PCC)	Cross-Enterprise Sharing of Medical Summaries (Discharge)	HITSP/CAP119 HITSP/C48	Communicate Structured Document Encounter Document Using IHE Medical Summary (XDS-MS)
26-3 The HIE Services registry receives the encounter summary and checks if any publication subscriptions exist for that patient. It publishes a notification to the PCP (or other providers) that have subscribed to receive information about this patient.	HIE Services	PCP Office	DSUB (ITI)	Document Subscription	NHIN HIEM	Health Information Event Messaging
25-4 The PCP receives the notification that care has been given to the patient and retrieves the encounter summary for the patient to update his EMR.	PCP Office	HIE Services	XDS-MS (PCC)	Cross-Enterprise Sharing of Medical Summaries (Discharge)	HITSP/CAP119 HITSP/C48	Communicate Structured Document Encounter Document Using IHE Medical Summary (XDS-MS)

Health Information Exchange (HIE) Core Services			
IHE Profiles		HITSP Service Collaborations / Constructs	
XCA XDS/XDR/XDM	Cross-community and Cross-enterprise Document Sharing	SC112 / TP13, T31, T33	Healthcare Document Management Manage Transfer of Documents, Document Reliable Interchange, Transfer of Documents on Media
PIX	Patient Identity Cross-reference	SC112 / TP22	Patient ID Cross-Referencing,
PDQ	Patient Demographics Query	SC112 / T23	Patient Demographics Query
ATNA	Audit Trail and Node Authentication	SC112 / T15, T17	Collect and Communicate Security Audit Trail, Secured Communication Channel
CT	Consistent Time	SC112 / T16	Consistent Time