

Interoperability Scenarios

Care Theme: Care Coordination

Act 4 - Endocrinology Referral with Primary Care Physician (PCP) Follow-up

Scenario Primary Goal: To demonstrate the ability to share patient information across multiple care provider systems and then provide the information from the care event to the patient and their provider.

Key Points

- The demonstration will use the IHE Cross-enterprise Document Sharing profile for exchange of medical summary information between electronic medical record (EMR) Systems and personal health records (PHRs).
- This scenario features a patient being referred from their PCP or Outpatient Clinic to an Endocrinologist to investigate an enlarged thyroid gland. The specialist examination reveals a diagnosis of hyperthyroidism and an anti-thyroid medication is prescribed as an initial course of treatment. The referring PCP is notified of this care protocol.

Meaningful Use Relevance

MU Objective 1: Improving Quality, Safety, Efficiency, and Reducing Health Disparities

Clinical Workflow:

A 40 year old female with borderline thyroid lab studies for the past 6 months is referred by her PCP to an endocrinologist at the hospital clinic. She has been experiencing weight loss, excessive sweating, as well as increased muscle twitching and heart palpitations which she has described in her PHR. The PCP draws blood and orders thyroid function studies and shares them prior to the referral.

The endocrinologist examines the patient, reviews all of the lab results, and prescribes an anti-thyroid medication, sharing the reports with the PCP. Patient has a follow-up visit with the PCP and a medical summary of the encounter is provided for updating her PHR. She then incorporates the new information into the PHR system.

Care Scenario Steps	Care Setting From	Care Setting To	IHE Profiles	Title	HITSP Constructs	Title
4-1 Patient updates her PHR at home with a personal health observation	Home	N/A	XPHR (PCC)	Exchange of Personal Health Record Content	HITSP/CAP119 HITSP/C32	Communicate Structured Document Summary Document Using HL7 Continuity of Care Document (CCD)
4-2 PCP refers patient with an enlarged thyroid gland to an endocrinologist (Variant a) or a hospital's outpatient clinic (Variant b). The PCP draws blood and orders thyroid function studies.	PCP office	Specialist Office / Outpatient Clinic	XDS-MS (PCC)	Medical Summary (Specialist referral)	HITSP/CAP119 HITSP/C48	Communicate Structured Document Encounter Document Using IHE Medical Summary (XDS-MS)
4-3 Specialist examines patient and reviews the lab results, diagnosing hyperthyroidism and prescribing an anti-thyroid medication as the first course of treatment. Specialist completes and shares a summary of the encounter with the referring PCP.	Specialist Office / Outpatient Clinic	PCP office	XDS-MS (PCC)	Medical Summary (Encounter Summary)	HITSP/CAP119 HITSP/C48	Communicate Structured Document Encounter Document Using IHE Medical Summary (XDS-MS)
4-4 Patient has follow-up visit w/ the PCP and a medical summary of the encounter is provided for updating the PHR. Patient incorporates the new info into the PHR.	PCP office	Home	XPHR (PCC)	Exchange of Personal Health Record Content	HITSP/CAP119 HITSP/C32	Communicate Structured Document Summary Document Using HL7 Continuity of Care Document (CCD)

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