

Interoperability Scenarios

Care Theme: Maternal Health

Act 1 - Pre-mature Delivery: This scenario features a pregnant patient presenting at the hospital Labor & Delivery (L&D) department.

Scenario Primary Goal: To demonstrate the ability to provide efficient and accurate maternal child healthcare and formally close the episode of care with the patient's obstetrician. This scenario will show the interoperability of patient data from the MD office to the hospital L&D department and back.

Key Points

- Use the IHE Cross-enterprise Document Sharing Profile for exchange of an antepartum and a postpartum medical summary and the discharge summary for the hospital stay. Includes information regarding the delivery event that is shared with the patient's referring obstetrician.

Meaningful Use Relevance

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

MU Objective 2: Improving Care Coordination.

Clinical Workflow: Maria is in her late 30's and is pregnant with her first child. She is experiencing intermittent abdominal pain and makes an appointment to see her OB provider Dr. Fem. As a result of her age and condition, Maria is referred to hospital as a high-risk pregnancy and is admitted directly into the Good Health Hospital high risk unit. Because the records are received from Dr. Fem's office, the hospital staff can immediately review a complete patient history and Maria is quickly registered into the hospital's Labor and Delivery (L&D) system.

With all of the relevant data accessible in the L&D system, Maria is pleased that the hospital now has all of the necessary information at hand to address her pregnancy complications. Prior to this ability to immediately exchange data at point-of-care, it might take hours or even days for the data to be transferred from the patient's care providers to the hospital. This patient data was important to be immediately available to hospital staff.

Five days later, Maria returns home with a healthy baby. There were some issues with the delivery but were they were addressed because all care givers had a full medical history at hand. The discharge summary is sent to Dr. Fem for follow-up care post-delivery. Even though Dr. Fem was not present at birth, she is still able to review details of the delivery through the EMR and provide postpartum follow-up care to Maria.

Care Scenario Steps:	Care Setting From	Care Setting To	IHE Profiles	Title	HITSP Constructs	Title
1-1 Patient Referred to Hospital L&D Dept. Pregnant patient presents at OB office with unusual intermittent abdominal pain	OB-Gyn Office	Hosp L&D Dept	APR (PCC)	Antepartum Record	HITSP/C161 HITSP/CAP119	Communicate Structured Document / Antepartum Record
1-2 Patient Has Normal Delivery Patient is referred to hospital as a high-risk pregnancy and most recent OB info is made available to hospital L&D staff	Hosp L&D Dept	Hosp Registration	LDR (PCC)	Labor and Delivery Record	HITSP/C152 HITSP/CAP119	Communicate Structured Document / Labor and Delivery Record
1-3 Patient is Discharged from Hospital Delivery report and discharge summary are available at time of patient discharge and shared with OB-Gyn who is able to familiarize herself with delivery event and provide follow-up care	Hosp Registration	OB-Gyn Office	MS (PCC)	Medical Summary (Hospital Discharge with Delivery event)	HITSP/C48 HITSP/CAP119	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