



Use Case Title: Opioid Addiction Care

Overview: Taryn – a 50-year-old male struggling with addiction. Follow his journey through Primary Care, Behavioral Health, and Care Coordination, as opioids are discovered, monitored and treated. Through connected partnerships, providers collaborate to ensure that treatment is coordinated, Taryn is engaged and outcomes are optimized. Through the coordination of care, correct services are wrapped around Taryn, even when relapse occurs. Taryn becomes part of the team through collaborative patient engagement and social networks for encouragement and advisement with his care team.

Value: Opioid Addiction Care: Access to a consumer application with aggregated data collection allows for improved patient communication with the Care Team. Interoperability drives STEPS to value by educating & engaging the patient to stay on track to maintain their treatment.

Scenario	Vendor	Products	Standards
Taryn presents as a first time patient to a new PCP, Dr. Massoud complaining of severe anxiety and seeking medication to assist with pain and stress. Dr. Massoud retrieves the Ohio PDMP report. The state PDMP contains history of opioid dispensations from several urgent care settings. Dr. Massoud determines that prior providers prescribed opioids to Taryn. She refers Taryn to an outpatient Behavioral Health therapist for treatment	Epic	Epic	NCPDP XDR CDA
Taryn presents to the Behavioral Health organization. The provider received a care summary from Dr. Massoud that informs the patient’s background. The clinician is presented with high NarxScores in the patient chart, elects to view the full Ohio PDMP report, and sees the prior opioid prescriptions. The clinician diagnoses Taryn with a substance use disorder and schedules him into a care coordination program. The clinician sends Taryn’s records downstream to a care coordinator.	NETSMART	Avatar	XDR NCPDP Direct
The Care Manager receives the referral from Behavior health and identifies Taryn’s eligibility for the program.	CareEvolution	CareCoordinate	Direct, XDS, CDA

The care manager uses a connection to Orion to pull additional summaries of care from the past year for Taryn. One of the documents is a medication reconciliation summary retrieved from regional clinical data repository. The Care Manager develops a care plan with Taryn and shares it with the care team. A referral, for a medication review, is sent to the pharmacist.			
A pharmacist receives the referral for medication reconciliation and performs a medication review on Taryn's medication history. Action Plans are defined for prescribers and the Care Manager, based on findings and clinical risks found in the Medication Reconciliation process. Medication reconciliation results are sent to the regional clinical data repository.	ActualMeds	ActualMeds	FHIR CDA
Two months later, Taryn has a relapse, purchases illegal opioids and is admitted to the ED. The Behavioral Health Provider accesses additional Patient data from the ED where Taryn is being treated.	Summit Healthcare	Provider Access	XDS Direct
After leaving the ED, Police arrest Taryn for possession of an illegal controlled substance. Upon generation of an arrest record, Law Enforcement Notification System sends an alert to the care team. They reach out to the Behavioral Health Provider. The Law Enforcement Notification system communicates additional information upon Taryn's release from incarceration.	Appriss	Appriss Safety	Web Service
Taryn becomes part of the team by enrolling in a consumer application to aggregate his medical records from his PCP and his behavioral health provider. This allows Taryn to better understand his condition and follow through with his providers' recommendations. He stays in touch with his Care Manager and remains engaged in his care plan treatment.	PatientLink	MyLinks	FHIR Direct
Taryn's clinical records are stored and kept up to date in the regional clinical data repository, accessible by his care team using their application of choice.	Orion	Amadeus	XDS FHIR

HIMSS18 Interoperability Showcase Use Case

Data exchange standards:

Vendor	Product	Category	Protocol	Interop Body	Interop Profile	Interop Actor	Interop Message	Send or Receive	Transaction Description
Epic	EpicCare	NCPDP Request	NCPDP	NCPDP	NA	NA	NA	Query	Opioid Registry Query
		Reliable Message	WS	IHE	XDR	Doc Src	ITI-18	Send	Document send
		Clinical Document	CDA	HL7	NA	NA	NA	Source	Care Summary
		Clinical Data	FHIR	HL7	FHIR	NA	NA	Responder	Data Responder
NETSMART	Avatar	Reliable Message	WS	IHE	XDR	Doc Rcv	ITI-18	Receive	Document send
		Clinical DocumentBRO	CDA	HL7	NA	NA	NA	Consumer	Care Summary
		NCPDP Request	NCPDP	NCPDP	NA	NA	NA	Query	Opioid Registry Query
		Watch Request	WS	NA	NA	NA	NA	Send	Arrest watch/notification request
CareEvolution	CareCoordinate	Reliable Message	SMTP	NA	Direct	NA	NA	Receive	
		Reliable Message	WS	IHE	XDS	Doc Cons	ITI-17, ITI-18	Receive	Stored Query and Retrieve Document

		Clinical Document	CDA	HL7	CarePlan	NA	NA	Send	Generate content
		Reliable Message	WS	IHE	XDS	Doc Src	ITI-15	Send	Provide and register
ActualMeds	ActualMeds	Clinical Document	CDA	HL7	FHIR	NA	NA	Receive	Query for med histories
			CDA	HL7	FHIR	NA	NA	Send	Completed Med Rec summary document send
Orion	Amadeus	Clinical Document	XDS	IHE	XDS.b	Doc Registry	ITI-18, ITI-43	Source	Discover and retrieve previous summary documents
		Clinical Data	FHIR	HL7	NA	HIE		Source	Query for additional demographic and clinical information
		Clinical Document	FHIR	HL7	NA	Doc Repo	NA	Receive	Publish a new CCDA i.e. for Medication Reconciliation
		Clinical Document	XDS	HL7	NA	Doc Repo	ITI-41	Receive	Publish a new CCDA i.e. for Medication Reconciliation
Appris	Appris Safety	Arrest Notifications	WS	NA	NA	NA	NA	Send	Arrest notification send
		NCPDP Response	NCPDP	NCPDP	NA	NA	NA	Query	Opioid Registry Response
Summit Healthcare	Provider Access	Clinical Document	WS	IHE	XDS	Doc Src	ITI-18	Receive	Care Summary

		Clinical Document	CDA	HL7	FHIR	NA	NA	Receive	Completed Med Rec summary document
PatientLink	My Links	Clinical Data	FHIR	CCDA	NA	NA	NA	Receive	Receive Clinical Data
		Reliable Message	SMTP	NA	Direct	NA	NA	Receive	Direct Message Receive
		Reliable Message	SMTP	NA	Direct	NA	NA	Send	Direct Message Send

HIMSS Value STEPS Framework:

Step	Description	Point of View	Point of View	Point Of View	Point of View
S: Satisfaction	This type of value focuses on people, process and technology use cases that increases stakeholders' satisfaction with the delivery of care. Satisfaction includes types of value such as: Patient satisfaction Provider satisfaction Staff satisfaction Other satisfaction		Technology and its interoperation must enhance the experience of all stakeholders and empower them to do more than they could without it (in a user-friendly manner).		While denying or controlling a person's access to repeated Opioids may initially seem like dissatisfaction, the end result of assess the patients addiction and providing treatment for their underlying problem will improve their overall satisfaction in the end. For providers, reducing the unnecessary medical visits that can clog or take up time, will improve their ability to provide correct medical care.
T: Treatment/Clinical	This type of value focuses on effective and improved treatment of patients, reduction in medical errors, inappropriate/duplicate care, increase in safety, quality of care and overall clinical efficiencies.			Ability to leverage the PDMP identified underlying conditions that would have otherwise gone	Correct treatment is now being provided.

	Treatment/Clinical includes types of value such as: Efficiencies Quality of Care Safety Other treatment/clinical			unnoticed - allowed for recommendations and treatment to be initiated.	
E: Electronic Secure Data	This type of value focuses on improved data capture, data sharing, reporting, use of evidence-based medicine, and improved communication by and between physicians, staff and patients. Electronic Secure Data includes types of value such as: Privacy & Security Data sharing Data reporting Enhanced communication			Access to a consumer application with aggregated data allows for improved patient communication with physicians and care team. Sharing of relevant data electronically throughout this demonstration appears critical to the care team's ability to coordinate care for Taryn.	Patient portals allow for an empowered patient who now feels they are a stakeholder in their own medical care plan.
P: Patient Engagement & Population Management	This type of value focuses on improved population health and reduction in disease due to improved surveillance/screening, immunizations and increased patient engagement due to	Engagement is key to ongoing care and support. Access to information helps all stakeholders promote adherence and education.			Education and engagement keeps the patient on track to maintaining their treatment.

	<p>improved patient education and access to information.</p> <p>Patient Engagement & Population Management includes type of value such as:</p> <p>Patient education Patient engagement Prevention Population Health</p>				
S: Savings	<p>This type of value focuses on documented financial, operational and efficiency savings resulting from factors such as improved charge capture, use of staff resources and workflow and increased patient volume and more efficient use of space .</p>		<p>Estimates of the cost to our nation associated with the opioid crisis exceed \$0.5 Trillion+ annually; generating savings by breaking down silos to help people is critical.</p>		<p>Insurance aside, patients will see reduced costs as repeated tests and imaging are no longer needed. However, it could be argued that the medical facility may lose revenue by not doing these tests.</p>