Opioid Abuse and Prevention

Marc is a plumber in commercial building construction who was injured at work. He sought care at a clinic, and when his provider searched the state prescription drug monitoring system, it was clear that Marc had received opioid prescriptions from several providers in several states. The clinician treats Marc's injury, and refers him to a recovery program where he is started on buprenorphine. After several months, Marc is able to return to work.

Setting	Description	Standards
1 – PHR onerecord™	Prior to his scheduled primary care visit Marc installs and signs into the OneRecord personal health record application using his phone. Using IHE and FHIR standards he is able to aggregate his medical history from many different providers, and even provide data back to his doctors as needed for specific care situations. As part of his current treatment his provider, Dr. Andersen, requests to have Marc's work information documented. The OneRecord application allows Marc to complete this documentation directly and share it to his provider using the FHIR Occupation for Data Health (ODH) standard.	**IHE**: QEDm **HL7:** HL7 FHIR Profile: Occupational Data for Health (ODH), Release 1.0 (Standard for Trial Use) **HL7:** HL7 EHRS-FM Release 2: Functional Profile; Work and Health, Release 1 – US Realm
2 – Clinic EHR AllianceChicago *Innovating for better health*	Marc arranges a visit to a clinic to help with pain management while recovering from a workplace injury, having fallen from a ladder, injuring his back. The provider, Dr. Andersen reviews the reason for the patient's visit.	**HL7**: HL7 EHRS-FM Release 2: Functional Profile; Work and Health, Release 1 – US Realm
3 – Clinical Decision Support UNIVERSITY *of* WASHINGTON Washington State Department of Health	During the visit, Dr. Andersen uses a Clinical Decision Support tool to run a PDMP query and accesses his current occupation, industry, and employer information from his PHR. He is a plumber in commercial building construction. Marc's dispensed medication data is then available to be seen and reveals that he has a history of OxyContin, Xanax, and buprenorphine prescriptions.	**IHE**: QEDm/ODH option **HL7**: FHIR R4/ODH **NCPDP:** SCRIPT
4 – Prescription Drug Monitoring Program / Interstate Gateway APPRISS® HEALTH	During the visit Dr. Andersen was able to run a PDMP query. The PDMP includes a gateway that is able to extend the query to surrounding states. Marc's combined dispensed prescription history across the two states reveals that he has a history of OxyContin, Xanax, and buprenorphine prescriptions.	**NCPDP:** SCRIPT 10.6
5 – Clinic EHR	With this information would like to prescribe Marc a short duration opioid, however, the clinical decision support suggests a non-	**IHE**: XPHR with ODH Option **HL7**: BSeR, CCDA, HL7

AllianceChicago *Innovating for better health*	opioid pain reliever. Marc agrees with this solution. discusses a different pain management solution with the patient. Dr. Andersen also takes time to discuss recovery programs that the patient can take part in. Marc accepts and is referred to a recovery program.	CDA® R2 Implementation Guide: Consolidated CDA Templates for Clinical Notes; Occupational Data for Health Release 1 - US Realm
6 – Prescription Drug Monitoring Program, State 2	Marc has been able to visit physicians in the neighboring state in an attempt to obtain additional opioid prescriptions. With the PDMP gateway access to standard PDMP exchanges, this out-of-state prescription activity is accessible to the physician treating Marc in his home state.	**NCPDP:** SCRIPT 10.6
7 – Clinic EHR AllianceChicago *Innovating for better health*	Marc engages in the recovery program. His back pain improves, and he returns to Dr. Andersen for clearance to return to work. His only medications are buprenorphine and naproxen. Dr. Andersen clears him to return to work as a plumber.	

Further Reading:

For more information on the University of Washington/Washington State Department of Health work
https://project.cosri.app/

CDC, NIOSH. Electronic Health Records (EHRs) and Patient Work Information.
https://www.cdc.gov/niosh/topics/ehr/

QEDm: https://www.ihe.net/uploadedFiles/Documents/PCC/IHE_PCC_Suppl_QEDm.pdf

IHE CDA Occupational Data Options.
https://www.ihe.net/uploadedFiles/Documents/PCC/IHE_PCC_Suppl_ODH_Options_Rev1-0_PC_2020-06-17.pdf

A NCPDP Script 10.6: https://www.onehealthport.com/sites/default/files/content-uploads/documents/PMP_Implementation%20Guide_NCPDP_10.6.pdf

BSeR: http://build.fhir.org/ig/HL7/bser/