Controlled Substance Database EHR Integration

Jon Reid
Melanie Wallentine
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Purpose

The purpose of this project is to identify options to integrate with external EHR systems to improve user utilization and reduce opioid over-prescribing by implementing an interface between the CSD and participating EHR systems.
What are the barriers to using the CSD?

• Separate login
• Outside of EHR/workflow
• Patients not matched
• Limited time with each patient
• Perception of value
• Others?
How can we help remove barriers?

• Developed options to integrate the CSD with EHRs
• Working to improve data quality
• Enhanced reports for patients and providers
Proposed Project

Submit CMS 90/10 matched funding request

Project Areas

1. Improve Data Quality and Person Linkage
2. Expand adoption of the PDMP
3. Support health information exchange between the PDMP and clinical systems
Improve Data Quality and Person Linkage

• Develop API to match and link controlled substance data
• Ability to perform “quick match”
• Send to DohMPI for probabilistic match
• Ability to link to additional data sources
CSD Matching Process

- Integrate into existing CSD process
- Link incoming data from pharmacies
- Match queries from prescribers to MPI
- Use MPI ID to query prescription data
Expand adoption of the PDMP

Option 1
- Use third party vendor to integrate with the CSD
  - Appriss is currently approved and implemented
  - EHR automatically queries CSD for current CSD medication list and displays in EHR

Option 2
- Enhance current web dashboard with single sign-on
  - Automatically open new browser and login to CSD web dashboard and search for patient by clicking on button in EHR

Option 3
- Custom interface
  - Develop custom interface to query CSD data and display in EHR

Option 4
- Receive controlled substance prescriptions through the cHIE
  - Display in EHR or through cHIE provider portal
Option 1 – Third-party Vendor

Pros

• Fastest implementation
  • Most EHR systems already have modules developed with Appriss
• Minimal development/testing needed
• Ability to use advanced analytics (risk scores) from Appriss
• Automatic patient lookup, import into EHR

Cons

• Cost
  • Annual subscription
  • EHR may have additional costs for implementation
• Advanced analytics in external web system
  • Not able to use with EHR decision support
Option 2 – Web Dashboard Single Sign-on

Pros

• Lowest cost
• Access to latest web reports, analytics, guidance
• Users already familiar with system
• Allows one click login and search of the CSD

Cons

• External system
• Prescriptions do not import into EHR
• Will not pre-pull controlled substance data for upcoming appointments
Option 3 – Custom Interface

Pros
- Most flexible
  - Build query to pull data in format that is most usable to EHR
  - Use data in EHR decision support algorithms
  - Automatic and fully integrated into workflow

Cons
- Costly
- Longest to develop and implement
- Not re-usable across EHR systems
Option 4 - cHIE

Pros

- Single sign-on
  - User credentials passed through cHIE
- Integrated with existing cHIE queries
- Re-usable across multiple EHR systems
- Available to web cHIE users
- Combined with other clinical data

Cons

- May need custom development to pull into EHR
Support health information exchange between the PDMP and clinical systems

• Facilitate queries from EHRs through the cHIE
• Provide user authentication and attestation
• Integrate CSD data with cHIE
Provider alerting through cHIE

- New prescriptions received from pharmacies
- Patient matched through DohMPI/ThSisU
- New prescription notification sent to cHIE
- cHIE finds patient primary care provider
- Submits alert to provider that new controlled substance dispensed to patient
Questions and Comments

• Please contact us to discuss questions or comments about what would help you use the controlled substance database.

• Jon Reid
  • jreid@utah.gov

• Melanie Wallentine
  • mwallen@utah.gov