RxCHECK HUB INTEGRATION
September 25, 2019
Adobe Connect Features

*All phone lines are muted          This webinar is being recorded*
# RxCheck Contacts

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pat Knue</td>
<td>PDMP TTAC Director</td>
<td>Institute for Intergovernmental Research (IIR)</td>
</tr>
<tr>
<td>Jim Giglio</td>
<td>PDMP TTAC Senior TTAC Coordinator</td>
<td>Institute for Intergovernmental Research (IIR)</td>
</tr>
<tr>
<td>Jean Hall</td>
<td>eKASPER Integration Project Manager</td>
<td>Kentucky Cabinet for Health and Family Services</td>
</tr>
<tr>
<td>Raghu Govindaraj</td>
<td>RxCheck Senior Systems Analyst</td>
<td>Tetrus Corporation</td>
</tr>
<tr>
<td>Sanjay Ungarala</td>
<td>RxCheck Technical Lead</td>
<td>Tetrus Corporation</td>
</tr>
<tr>
<td>Robert May</td>
<td>RxCheck Program Director</td>
<td>IJIS Institute</td>
</tr>
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Agenda

• Introductions
• Integrating with RxCheck
• New Features to further simplify Integration
• Kentucky Integrations – Lessons Learned
• Questions
Integrating with RxCheck

• RxCheck encourages integration
• Integration is relatively easy and getting easier
• No Annual or Recurring cost to Provider or Health Facilities
Who can Integrate with RxCheck?

- Any health care entity approved by a connected state PDMP
- No direct connections are currently allowed
New Features to Ease Integrations

- Health Entity onboarding with approval workflow
- RESTFul HTML Endpoint
- Federated query support for HTML Endpoint
- Support FHIR standard in SRS
- Throttle messages coming into PDMP
- PDMP real-time analytics dashboard
# Sample RxCheck HTML Report

## RxCheck PMP Report

<table>
<thead>
<tr>
<th>Name</th>
<th>Birth Date</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Count</th>
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<tbody>
<tr>
<td>John Doe</td>
<td>09/15/1950</td>
<td>123 James Ct</td>
<td>Edison</td>
<td>WI</td>
<td>08817</td>
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### Patient Demographics

### Medical Prescription History

<table>
<thead>
<tr>
<th>Fill Date</th>
<th>Drug</th>
<th>Strength</th>
<th>Qty</th>
<th>Days</th>
<th>Prescriber</th>
<th>Pharmacy</th>
<th>Refill</th>
<th>Payment Mode</th>
<th>State</th>
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<tr>
<td>07/21/2018</td>
<td>Quinidine Gluconate</td>
<td>0</td>
<td>10</td>
<td>5</td>
<td>HOWARD W DAVIS</td>
<td>CHILDREN'S HOSPITAL OF WISCONSIN</td>
<td>5</td>
<td>Self</td>
<td>GG</td>
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<tr>
<td>08/07/2018</td>
<td>Lidoxydine Ginnamyliol</td>
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<td>55</td>
<td>2</td>
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<tr>
<td>08/22/2018</td>
<td>Methylphenidate</td>
<td>0</td>
<td>50</td>
<td>22</td>
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<td>WALGREEN CO.</td>
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<td>Dolutegravine</td>
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<td>15</td>
<td>16</td>
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<td>Methylphenidate HCl</td>
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<td>70</td>
<td>2</td>
<td>ELLEN N CANOPY</td>
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### Response Status

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<tr>
<th>PMP</th>
<th>Status</th>
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<tr>
<td>GG</td>
<td>Provided</td>
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<tr>
<td>TT</td>
<td>Provided</td>
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<tr>
<td>KX</td>
<td>NoData</td>
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What Standards are Needed?

- NCPDP Script v10.6
- NIEM
- PMIX
- FHIR 3.0
RxCheck Integration Architecture
Creating Health Entity - RxConsole

Site

Name*
TT EHR

Site Code*
TT_EHR

Site Type*
- EHR
- Select Type
- EMR
- HIE

Description
TT EHR

Status*
Active

Inactive
SRS Configuration for Health Entity - RxConsole
RxCheck Security

- Hosted on Azure Government Cloud and the infrastructure is CJIS, HIPPA and FedRamp certified.
- All RxCheck servers are Linux servers and Azure infrastructure is configured to detect any intrusions.
- OWASP coding standards are performed on RxCheck Hub source code
- RxCheck is compliant with NIST 800-53.
- All connections undergo conformance testing and certification
- Azure Govt Cloud - infrastructure is disaster proof for business continuity by scaling the application in multiple regions in the country
- Third party penetration testing and SOC2 Type 2 audit are currently being implemented
How does and entity begin the process?

1. The healthcare entity signs a state PDMP MOU
2. PDMP Administrator advises IJIS that they want the entity to integrate
3. IJIS sets up an integration call to walk through the integration process with the entity’s technical team and/or their vendor
4. Connection process begins
What are the costs?

• No fees are charged by RxCheck
  – No connection fees
  – No user fees
  – No license or recurring fees
Vendors we have integrated with

- EPIC
- LogiCoy
- Allscripts (Touchworks)
Vendors we are integrating with now

- PastRx
- Deloitte
- Revere
- Athena Health
- eClinicalWorks v.11
- Cerner
<table>
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<tr>
<th>State</th>
<th>Health Entity</th>
<th>Date Live</th>
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<th>Integration Vendor</th>
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<td>Owensboro Health</td>
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<td>Jennie Stuart Health</td>
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<td>Kentucky HIE (KHIE)</td>
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<td>01/15/2020</td>
<td>EHR</td>
<td>IHC/Cerner</td>
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</table>
Integration via RxCheck Hub

Kentucky All Schedule Prescription Electronic Reporting (KASPER)
Purpose of Integration

Provide simplified access to KASPER report data in practitioner and pharmacist workflow while maintaining the requirements of Kentucky statute and regulations.
Pre-integration KASPER use
Pre-integration KASPER use
Pre-integration KASPER use
Agreements for Integrated Use
- Institutional Account Agreement for Integration for hospital base services
- Data Use Agreement for other practices

Utilize intermediaries
- Kentucky Health Information Exchange
- RxCheck Hub
- PMPGateway/PMP Interconnect Hub

Options for presentation in your Electronic Health Record (EHR)
- Report built in EHR
- Enhanced view provided by approved integration partners

• Summary data cannot be provided in lieu of viewing the Rx records
Kentucky Health Information Exchange (KHIE)

- Utilizes the RxCheck Hub as an intermediary
- IHE Integration
  - Query passed to KASPER includes patient demographics*
  - Returns KASPER data in Consolidated Continuity of Care document
  - Query in Institutional Account Master Account Holder name
- Portal
  - Query passed to KASPER includes patient demographics*
  - Returns KASPER data in Prescription Drug Monitoring Program (PDMP) tab
  - Query based on users KHIE and KASPER credentials in the Kentucky Online Gateway

*Query not passed to KASPER if patient not present in KHIE
Sample RxCheck Integrations

• National Council for Prescription Drug Programs (NCPDP) Integration with Owensboro Health
• Logicoy integration with Graves Gilbert Clinic
• PastRx integration with Jennie Stuart Medical Center
Kentucky Integration

Request: Receives the request in the EHR'S native format. Translates to PDMP native format (PMIX). Encrypts the patient request. Applies the routing information (metadata). Encrypts entire package and routes to the Hub.

Response: Unencrypts both layers and translates to the EHR'S native format. Routes response to EPIC system.

Patient request data is signed & encrypted using X.509 certificate keys and SOAP 1.2

The RxCheck Hub is not able to decrypt the patient request data

Request: Receives the request package. Unencrypts the first layer to read the routing information. Encrypts the request package and routes to the PDMP. The hub does not have the key to unencrypt the patient request.

Response: Receives the response from the PDMP system. Encrypt patient Rx response. Applies the routing information. Encrypts the entire response package and routes to the Hub.

Patient request data is signed & encrypted using X.509 certificate keys and SOAP 1.2

Request: Receives the request package. Unencrypts the first layer to read the routing information. Encrypts the entire response package and routes to the Hub.
• Data consumed by the EHR system
• Does not re-query for 24 hours
• Viewable for all prescribers caring for the patient
• Auto-queries for scheduled appointments
• Query upon registration for Emergency Department, Inpatient, Surgical Services, etc.
Owensboro Health Integration

- List basic prescription information in a custom report
- User can hover over the drug name for additional information
- Contains same disclaimers as the KASPER system report
- Requires prescriber to acknowledge review of the report
- Can run internal reports on reviewing compliance
Graves Gilbert Clinic Integration

• Utilizes Logicoy representation of data
• Includes dynamic representation that allow the user to view various aspects of the data
• Risk Analysis
• Alerts
  – Overlapping Rx
  – Morphine Milligram Equivalents
• Automatic import into the EHR
Jennie Stuart Integration

- Utilizes PastRx representation of data
- Risk Analysis
- Alerts
  - Outside Providers
  - Overlapping Rx
  - Morphine Milligram Equivalents
- Mapping of Prescriber and Dispenser
Standardized Templates for Integration

• Test Patients
• Testing Scenarios – standard process for testing integration and demonstrating use to healthcare team members
• End User Training Guides – for prescriber and pharmacist use of PDMP reports in their integrate workflow
• Support Guide for Integration – for healthcare system technical staff
Contact Information

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