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KENTUCKY
Cabinet for Health and
Family Services

Patient Matching

JEAN HALL

KENTUCKY ALL SCHEDULE PRESCRIPTION ELECTRONIC REPORTING (KASPER)

PRESCRIPTION MONITORING INFORMATION EXCHANGE STANDARDS

ORGANIZATION

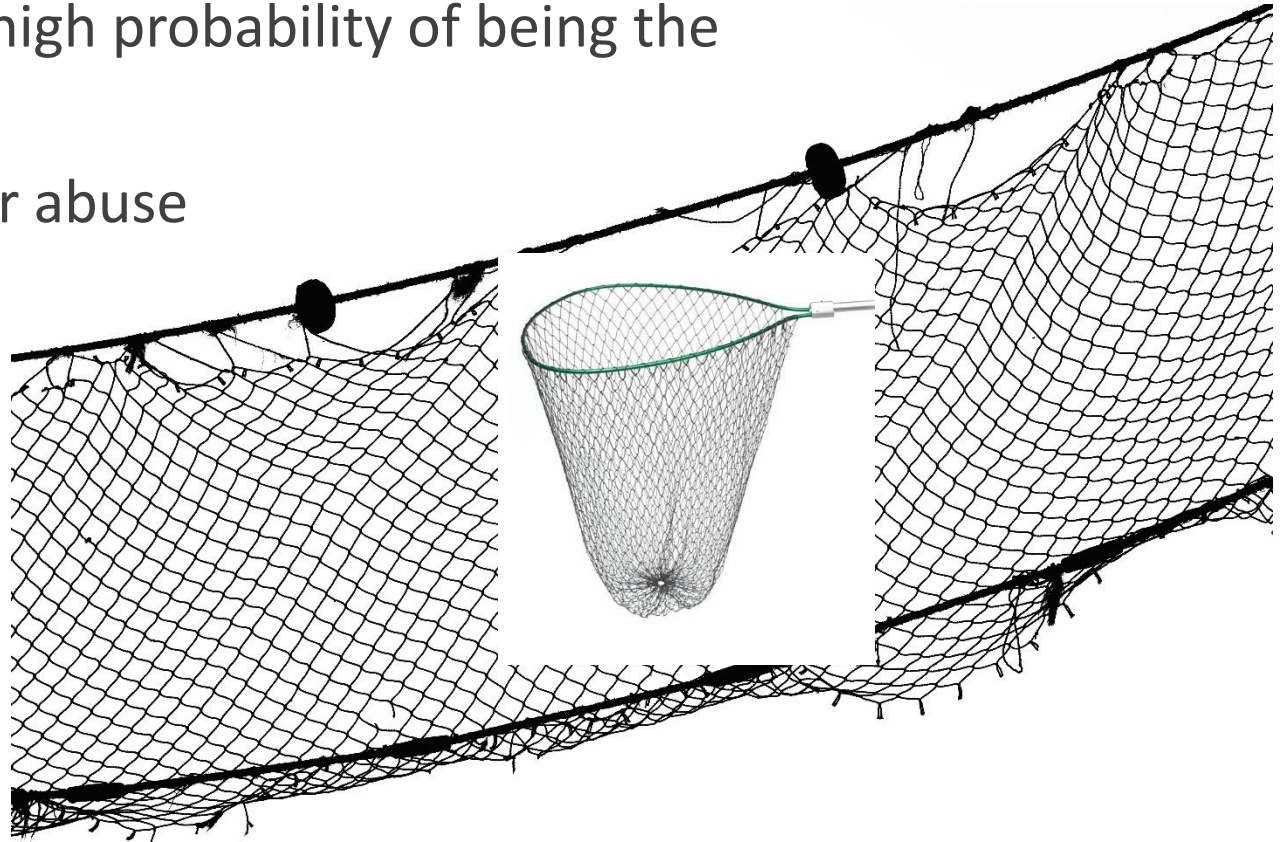
MARCH 10, 2020

Overview

- ❖ Provide a perspective on a state Prescription Drug Monitoring Program's (PDMP) patient matching processes
- ❖ Introduce the work of the Prescription Monitoring Information eXchange Standards Organization's Patient Matching Workgroup

PDMP Patient Matching

- ❖ Identify patients who have a high probability of being the same individual
- ❖ Identify suspected diversion or abuse





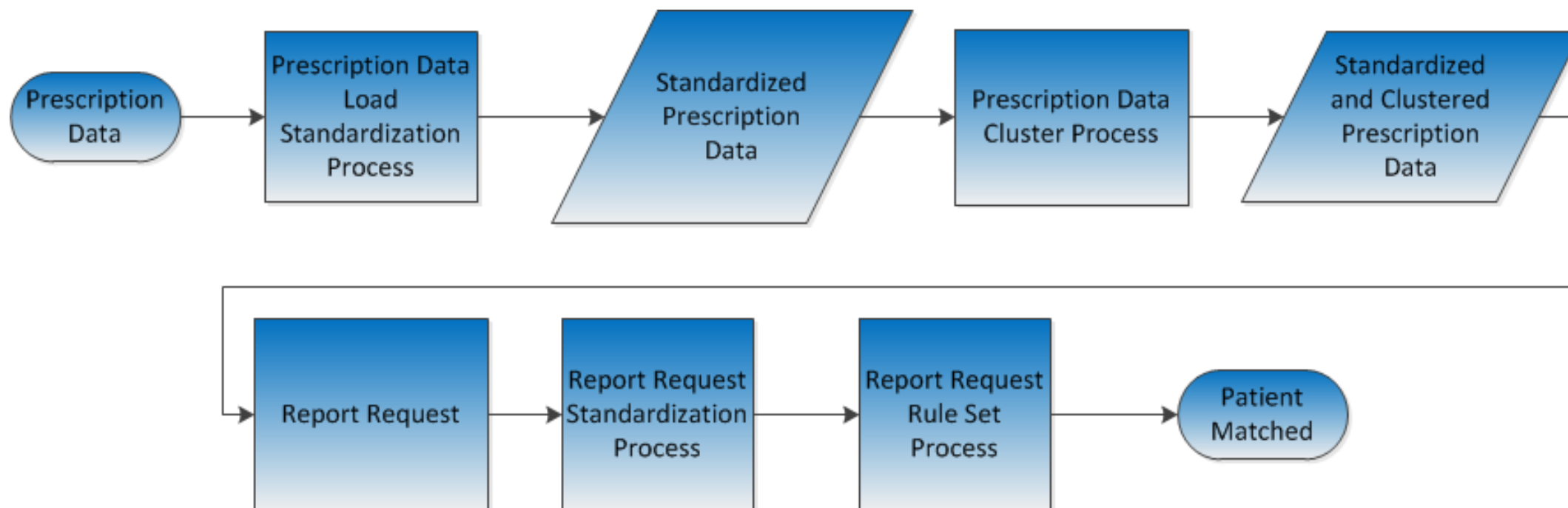
KASPER Patient Matching Process



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KASPER Patient Matching Process



Standardization of Rx Records

- ❖ Use of secondary fields for standardized data
 - Patient ID
 - Last Name
 - First Name
 - Address
 - Date of Birth

- ❖ Geo coding

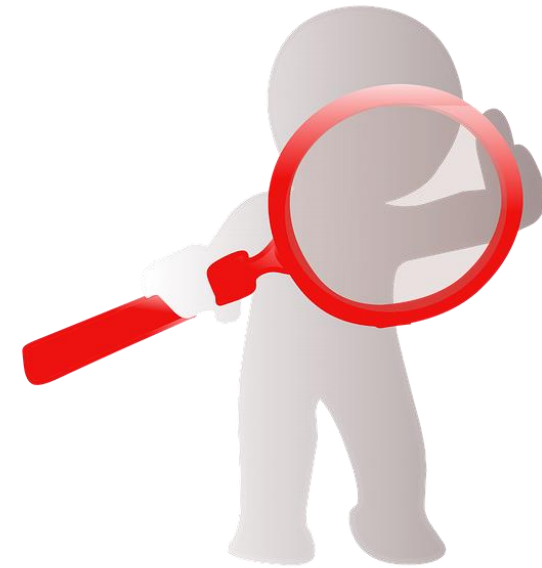


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Assigning an Unique Patient Identifier

- ❖ KASPER Cluster ID
- ❖ Each new record is compared to all production records using four algorithms
- ❖ Exact Match*
- ❖ Weighted Match (85)
 - Not a percentage matching
 - Name Field logic incorporates
 - Common nicknames
 - Gender
 - Misspellings
 - Regional spelling





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Assigning an Unique Identifier

Current Rules Set

#1
SSN*, Last
Name (85) &
First Name
(85)

#2
Last Name*,
First Name
(85), Address
(85) & 5 digit
Zip Code*

#3
Last Name*,
First Name
(85), & DOB*

#4
SSN* & DOB*

97% Auto-Match



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Matching a Request



- ❖ Request fields are also standardized
- ❖ Request rule set
 - SSN, Last Name (85) & First Name (85)
 - Last Name (Exact), First Name (85), Address (85) & 5 Digit Zip Code
 - SSN, First Name (85) & DOB
 - SSN & DOB
 - DOB, Address (85) & 5 Digit Zip Code
- ❖ Report Request Rule Set



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Managing Blended Records

- ❖ Blends: Two or more unique patients records with the same Cluster ID
- ❖ Common scenarios:
 - Father/son
 - Twins
- ❖ Verifying a blend: Two independent sources
- ❖ Flagging a blend/Manual review
- ❖ Pharmacy data corrections



Future Matching Enhancements

- ❖ Ongoing data analysis
- ❖ Predictive analytics
 - Interstate requests
 - Data trends



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Challenges of Patient Matching



- ❖ Characteristics of diversion and abuse
- ❖ Overlapping demographic information
- ❖ Data quality issues

Prescription Monitoring Information eXchange



Advancing PDMP Data Sharing Through Standardization and Innovation

PMIX Patient Matching Workgroup

PMIX Patient Matching Workgroup

❖ Kevin Borchert, Nebraska, Lead

❖ Participants:

- Health and Human Services, Office of the National Coordinator:

- Carmen Smiley
- Jawanna Henry
- Lolita Cachay

- California

- Tina Farales, PDMP

- Kentucky

- Jean Hall, PDMP
- Dharma Bhavsar, PDMP

- Maryland

- Kate Jackson, PDMP
- Sara Robeson, PDMP
- Rhonda Moody, CRISP, HIE

- Nebraska

- Naresh Sundar Rajan, PDMP

- Tennessee

- Ashlea Sitzer, Public Health
- Devann Kirkpatrick, Public Health

- Washington

- Matthew Reid, PDMP

- Logicoy

- Fred Aabedi

Supported by the PDMP Training and Technical Assistance Center:
Pat Knue and Jim Giglio

Prescription Monitoring Information eXchange



Advancing PDMP Data Sharing Through Standardization and Innovation

PMIX Patient Matching Workgroup

- ❖ Examine data elements available for patient matching
- ❖ Identify gaps and barriers to successful patient matching
 - Data quality
 - Issues with collecting data
 - Standardization
- ❖ Develop metrics for measuring quality of data and patient matching
- ❖ *Evaluate patient matching processes*

Prescription Monitoring Information eXchange



Advancing PDMP Data Sharing Through Standardization and Innovation

Questions?

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