SD PDMP Update

Opioid Abuse Advisory Committee
July 10, 2019
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PMP AWARxE Enhancements

- Clinical Alerts
- Prescriber Reports
- Coming Soon - NarxCare
Total Clinical Alerts for All Prescribers
Total Prescribers Receiving Clinical Alerts
Multiple Provider Episode Threshold Alerts
Daily Active MME Threshold Alerts
Concurrent Opioid and Benzodiazepine Threshold Alerts
NarxCare – The Enhanced PDMP Report

- 2018 BJA COAP Grant Project
- Available to users accessing SD’s PMP AWARxE platform through both the web portal and PMP Gateway clinical workflow integrations
- Enables a more comprehensive approach in addressing substance use disorder (SUD)
  - Analysis of rx data to provide patient risk scores
  - Visualizes usage patterns to help further ID potential risk factors
- Provides tools and resources to support patient needs
  - Printable CDC patient information sheets
  - SAMHSA supported Buprenorphine Treatment Locator
Each report contains three type-specific use scores called Narx Scores which numerically represent the PDMP data for a patient. Narx Scores are calculated for narcotics (opioids), sedatives, and stimulants and have these characteristics:

- Each score is three digits ranging from 000-999
- The last digit of each score represents the number of active prescriptions of that type according to dispensation information in the PDMP.
- The scores correspond to the number of literature-based risk factors present within the PDMP data including:
  - Number of prescribers
  - Number of pharmacies
  - Amount of medication dispensed (often in MMEs)
  - Number of times a similar type of medication from different prescribers overlaps
- The time elapsed for any risk factor will decrease its contribution to the score.
NarxCare Visualizations

Graphs

For CDC guidelines, the conversion factors and associated daily minimum/maximum requirements for drugs prescribed as part of medication-assisted treatment for opioid use disorder should not be used to determine equivalent dosage (removals exceed for opioids prescribed for pain).
Prescriptions are color coded and users can select or deselect drug type at the top of the graph
- Narcotics (opioids) are red
- Buprenorphine is purple
- Sedatives (benzodiazepines, sleep aids, etc.) are blue
- Stimulants are green
- Other is grey

The graph is in reverse time order; the most recent prescriptions are displayed on the left side and the oldest are on the right side

Each graph pixel represents one day; 1 day appears as a narrow vertical bar and a 30 day rx appears as a rectangle about 1 cm wide

The graph is interactive
PDMP Grant Updates

- 2016 Harold Rogers PDMP Enhancement Grant
  - Sanford Integration live January 2019
  - NarxCare
  - License Integration Project

- 2018 COAP Category 5 Harold Rogers PDMP Enhancement Grant
  - NarxCare
  - Statewide Gateway Integration Project
Trending Queries by SD Users
Opioid Prescriptions to SD Patients

- Prescription Count
  - Increase from 460,000 to 480,000
  - Increase from 500,000 to 520,000
  - Increase from 540,000 to 560,000
  - Increase from 580,000 to 600,000

- Quantity and Days of Supply
  - RX Total Quantity: Decrease of 26.4%
  - RX Total Days of Supply: Decrease of 19.3%
  - RX Count: Decrease of 21.5%
Top Patient Counties by Opioid RX Count
### Top Patient Counties by Opioid RX Quantity

<table>
<thead>
<tr>
<th>County</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Minnehaha County</td>
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<td>Brown County</td>
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<tr>
<td>Meade County</td>
<td>1,000,000</td>
<td>2,000,000</td>
<td>3,000,000</td>
</tr>
</tbody>
</table>

- **Minnehaha County** has the highest opioid RX quantity in all years, followed by **Pennington County** and **Brown County**.
- **Lincoln County** shows a steady increase in opioid RX quantity from 2016 to 2018.
- **Meade County** has the lowest opioid RX quantity compared to the other counties.

The chart on the right visually represents the data, with bars indicating the opioid RX quantity for each county across different years.
Top Patient Counties by Opioid RX Days of Supply
Top Ten CS YOY by RX Count
Top Ten CS YOY by RX Quantity
Top Ten CS YOY by RX Days of Supply
Questions?