Implementation of Outlier Modules for Investigations & Education
K-TRACS Advisory Committee

• K-TRACS Advisory Committee is authorized to review and analyze program data for the purposes of identifying patterns and activity of concern

• 14-member committee
  • 7 prescribers
  • 6 pharmacists
  • 1 law enforcement
K-TRACS Investigation

Pre-2018
- Patient Threshold Reports
- Top 50 Prescribers by Volume
- Prescriber Report Data

2018
- Adoption of case review criteria identifying reasons for investigative case review

2020
- Hire pharmacist investigator to identify and review cases
- Searching for needle in a haystack

2022 & Beyond
- Update case review criteria
- Use outlier modules to identify potential investigative cases
## Case Review Criteria

<table>
<thead>
<tr>
<th>Person of Concern</th>
<th>Prescriber of Concern</th>
<th>Pharmacy of Concern</th>
</tr>
</thead>
</table>
| • **Threshold Patient Criteria**  
  • Overlapping prescriptions (same drug class, different prescribers/pharmacies)  
  • Early refills | • Multiple patients ≥90 MME  
  • Multiple threshold patients  
  • Prescribing duplication of therapy  
  • Prescriptions written for family members of same household with same drug/dosage/quantity | • Reporting delinquency, outstanding errors and data quality issues  
  • Multiple threshold patients  
  • Dispensing ED prescriptions for the same or similar prescriptions that patient already has  
  • Dispensing opioids, stimulants and benzo to the same patient simultaneously |

*Mitigating factors: Prescriber specialty (hospice, MAT, oncology); practice setting; etc.*
Multiple Provider Episodes

Rate of Multiple Provider Episodes for Prescription Opioids (per 100,000 residents)
Threshold Patient Criteria

- 5+ Prescribers
- 15+ Prescriptions
- 300+ Days Supply
- ≥ 50 MME
- Exclude MAT Opioids

<table>
<thead>
<tr>
<th>Threshold</th>
<th>Number of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>5+ Prescribers</td>
<td>1,430</td>
</tr>
<tr>
<td>5+ Prescribers, 5+ Pharmacies</td>
<td>20</td>
</tr>
<tr>
<td>5+ Prescribers, 15+ Prescriptions</td>
<td>220</td>
</tr>
<tr>
<td>5+ Prescribers, 15+ Prescriptions, 300+ Days Supply</td>
<td>107</td>
</tr>
</tbody>
</table>
Adding Educational Pathway

• Automatic triggers for educational letters
  • Top 5% of prescribers in any criteria category with no K-TRACS usage in preceding 6 months
  • Pharmacies with threshold patients and no history of reviewing K-TRACS for those patients
Outlier Modules

• Originally intended to be used for investigation and education initiatives (2 of 3 strategies included in BJA grant)

• 3 modules: prescriber, stimulant, pharmacy
Prescriber Outlier Module

• Based on overdose decedent data
• Generates top 25 outliers based on variety of factors
• Includes 3 years’ worth of data in scoring model
Prescriber Outlier Module – Kansas Results

• 40% of prescribers were providing MAT

• Case Review Criteria Mitigating Factors:
  • Treatment providers
  • Rural location or patient population
Prescriber Outlier Module v 2.0

- GAM to remove pharmacy outlier & revamp prescriber module
- Create a threshold report instead of a scoring model
  - Early refills (5+ days)
  - Multiple provider episodes in combination with overlapping prescriptions
  - Growth rate of prescribing volume
  - MME duration (how long has the patient been at the same high MME level without tapering?)
- Maintain focus on opioids/sedatives
Stimulant Outlier Module

• Stimulant daily strength equivalent
  • Daily dosage based on manufacturer recommended max dose
• Likelihood of specialty to prescribe
• Number of stimulant patients
• Number of patients with high dosages
• Overlapping benzo usage

• Anticipated delivery: January 2023