SOR Analysis

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EPI Analyses

Sections

• SOR AHCCCS Stimulant & Opioid Analysis-updated
• Balance of state non-fatal overdose-status
• Balance of state mortality analysis-status
• Pathways to Addiction Model-updated, analysis useful for epi also
• **Overview:** EPI workgroup requested analysis into stimulant and opioid overdose. Period 9/2021 - 1/2022

• **Data:** Policy Map census to normalise the data; CHiR AHCCCS claims, period Jan 2017 - Dec 2020, ICD 10 code F10 - F19 and T43.6.

• **Completed**
  - Data set curation- selecting and transforming to tall data set structure
  - Analysis of the original questions.
  - An interactive dashboard was developed to answer these questions in general about the population or about specific localities. 01/13/2022
  - Signature required for viewer login captured

**Next**
- Pending dashboard access
- Awaiting signed user agreement protocol from the Office of Research & Integrity at ASU, we are following up regularly.
SOR AHCCCS Stimulant and Opioid analysis

• Time trends 2016-2020 in aggregate and drill
  • by county (or 3-digit zip code)
  • by age <18, 18-14, 25-34, 45-54, 65+
  • by gender, race/ethnicity

• Primary diagnosis and all diagnoses (or top 3 or 5)
  • For SUD codes and overdose codes
  • Compute number of cases and unique individuals
  • For cases and unique individuals:
    • % different conditions/events of all SUD
SOR AHCCCS Overdoses

• In progress deaths with SUD comorbidities.

Completed

✓ Charlson Comorbidity Index (CCI)
✓ SUD with CCI relationships

Next

☐ Breakdown into age, race/ethnicity, gender, geography in progress
Balance of the State- Nonfatal overdoses

- **Overview:** Assess drug use patterns among those in Medicaid and not in Medicaid.
- **Data:** AZ Hospital Discharge data
- **Significance:** Determine community level response to fatal and non-fatal overdoses.
- **Completed**
  - ✓ IRB is approved by ASU
  - ✓ AZ Hospital Discharge data request submitted to ADHS
- **Next**
  - ❏ Awaiting approval from ADHS
  - ❏ Breakdown into age, race/ethnicity, gender, geography, SMI, etc.
  - ❏ AHCCCS vs balance of state
Balance of the state: Mortality

• **Overview:** The opioid epidemic in Arizona is a state-wide problem and expanding the current population/scope to include the whole Arizonan population will uncover trends and suggest data-informed intervention strategies.

• **Data:** Policy Map census to normalise the data; ADHS death data, CHiR AHCCCS Claims

• **Significance:** Compare AHCCCS members to the balance of the state. The results will inform the Pathway to Addiction model and be shared with policy makers.

• **Completed**
  - ✓ IRB and HSRB is approved for AHCCCS members only.

• **Next**
  - ❏ ASU IRB only needs support statement from ADHS
  - ❏ Awaiting approval from ADHS
Adherence to Treatment

• **Overview**: What factors are predictive of continued treatment

• **Data**: AHCCCS claims data, literature review

• **Significance**: Identify individuals for proactive intervention to maintain treatment

• **Completed**
  
  ✓ IRB and HSRB is approved for AHCCCS members.
  
  ✓ Data pre-processed

• **Next**
  
  ❏ Analytical, machine learning models for summaries, and predictions
Pathways to Addiction: Treatment Patterns

• **Title**: Medication Adherence for Opioid Use Disorder in the Arizona Medicaid Population

• **Data**: AHCCCS claims data from 2017 - 2020.

• **Significance**: Maintaining medication assisted treatment is beneficial for individuals who suffer from OUD. However, there is limited research on MOUD adherence.

• **Completed**
  - Month by month transitions between remission, MAT, OUD, etc.
  - Forecasts versus actual
  - Breakdown by geography, demographics,
  - Linked to policy map, geographic SDOH
  - Preliminary analysis and report. 4/7/2022 by Nicole Young

• **Next**
  - Update visualizations and animations to visualize treatment transitions
  - Inform the Pathway to Addiction model
Thank you!

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