The Methamphetamine Use Problem: From a Health System Lens

Rosemary Younts
Sr. Director, Behavioral Health Services
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According to Research and News Reports…

- Methamphetamine use has returned with a vengeance with double the case numbers identified over the course of the decade – *New York Times*

- Methamphetamine use vastly outpaces opioid use, but is overshadowed by all the attention on the opioid epidemic - *HealthDay*

- A large percentage of methamphetamine use involves alcohol and other drugs – *SAMHSA*

- Significant crossover between methamphetamine use and mental illness – *National Center for Biotechnology Information*

- Methamphetamine use results in serious medical conditions and complications requiring long hospital stays – *National Institute of Drug Abuse*

- Social consequences of long term methamphetamine use tragic – *Medical News Today*

- Methamphetamine is increasing among older individuals – *Journal of Addiction*

*Dignity Health.*
Methamphetamine use has returned with a vengeance with double the case numbers identified over the course of the decade – *New York Times*

- What do the numbers say at Dignity Health hospitals (Mercy San Juan, Methodist, Mercy General and Mercy Hospital Folsom)?

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<td>2,412</td>
<td>4,044</td>
<td>68% increase!</td>
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- 3,543 of the total 4,044 cases were unique encounters
Health Systems See the Reality of a Frightening Health Issue

*Methamphetamine use vastly outpaces opioid use, but is overshadowed by all the attention on the Opioid epidemic - HealthDay*

- How do cases related to methamphetamine use compare to cases for opioid use disorders in our hospitals?

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<td>Opioid Cases</td>
<td>600</td>
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<td>7% increase</td>
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- The prevalence of methamphetamine cases in Dignity Health hospitals is almost 7 times greater than opioid cases!
A large percentage of methamphetamine use involves alcohol and other drugs – SAMHSA

- 28% of the total 4,044 methamphetamine cases seen in Dignity Health hospitals involved other substance use
  - Alcohol most common
  - Cannabis
  - Cocaine
  - Opioids
  - Other unspecified stimulants
Significant crossover between methamphetamine use and mental illness

- National Center for Biotechnology Information

- 18% of the individuals presenting to our hospitals for methamphetamine abuse have mental illnesses

- Wide range of mental disorders:
  - Schizophrenia and paranoia
  - Anxiety
  - Depression
  - Homicidal and suicidal ideation
  - Bi-polar
  - Hallucinations

- Methamphetamine users are often violent, aggressive, dangerous to themselves and others and hard to manage
Health Systems See the Reality of a Frightening Health Issue

Methamphetamine use results in serious medical conditions and complications requiring long hospital stays — National Institute of Drug Abuse

- Of the total 4,044 individuals presenting to Dignity Health emergency departments, 343 were discharged home
- The remaining 3,701 had medical conditions that required admission to the inpatient units
- Most common and serious medical conditions we see:
  - ✔ Respiratory disease
  - ✔ Kidney disease
  - ✔ Heart disease
  - ✔ Infections (sepsis, skin, dental)
  - ✔ Stroke
- Pregnancy and labor complications are significant
- Also numerous cases of HIV and Hepatitis
- Average length of stay in the hospital for all 4,044 cases is 5.33 days
  - This represents over 21,500 hospital days a year
Health Systems See the Reality of a Frightening Health Issue

Social consequences of long term methamphetamine use tragic – Medical News Today

- Of the total 4,044 methamphetamine cases at Dignity Health hospitals:
  - 2,636 or 65% were unemployed
  - 1,008 or 25% were disabled
  - Only 28 reported being homeless
Health Systems See the Reality of a Frightening Health Issue

Methamphetamine is increasing among older individuals – Journal of Addiction

- Overwhelmingly, the majority of methamphetamine cases seen in Dignity Health hospitals are actually younger individuals – 91%
  - Between the ages of 20 and 39
  - Average age is 29
  - Youngest age was 8
- The remaining 9% of methamphetamine cases are individuals 40 years and older
  - Average age is 51
  - Oldest age is 90
- The prevalence of methamphetamine use continues to be more prominent among males than females – with males representing 56% of the total cases
• Methamphetamine cases presenting to our emergency departments are concentrated in several communities:
  - City of Sacramento
  - Citrus Heights
  - Carmichael
  - North Highlands
  - Rancho Cordova
  - Elk Grove

• However, cases are widespread across the region - Rio Linda, Fair Oaks, Orangevale, Folsom, communities in El Dorado, Placer and Nevada Counties, the Bay Area and elsewhere

• 71% of all individuals seen are insured by Medi-Cal or Medi-Medi
  - 15% Medicare
  - 9% Commercial
  - 4% Uninsured
  - 1% Veterans
Recidivism Rates are High Among this Patient Population

• For many methamphetamine users, the emergency department has become a revolving door
• Case studies:

**Male, 62 years of age has had 30 encounters at Dignity Health hospitals in past 12 months.**

*Health issues: thrombosis, hepatitis C, uncontrolled asthma, diverticulitis, major depressive orders, schizophrenia, alcohol and other substance abuse in addition to methamphetamine.*

*15 inpatient psychiatric hospitalization in past seven years.*

*Currently linked to services, but non-compliant with appointments and medications.*

**Female, 42 years of age has had 16 encounters at Dignity Health hospitals in past 12 months.**

*Health issues: homeless, congestive heart failure, liver cirrhosis, hypertension, bipolar disorder in addition to methamphetamine addiction.*

*No history of linkage to services or inpatient psychiatric hospitalization.*
How Do We Reach This Patient Population?

• Emergency Departments present an important opportunity to intervene with methamphetamine users

• Hospital staff can be instrumental in educating patients and their families about the negative physical, mental and social health consequences of continued use

• Can offer referrals to treatment and counseling services

• Doing this now for individuals with opioid use disorders

• Welcome ideas for partnering with our community to address this health issue
Questions?

Thank You!