Outline

• Background on Denver Health

• Evolution of MAT & Treatment on Demand

• Data

• CAM

• Gaps/Opportunities
No Wrong Door

Bidirectional referral

High Risk OB
- Neonatal withdrawal syndrome
- Women & Family Services
- Pregnant women
- NIDA Grant

Office of Behavioral Health Services
- Methadone
- OBOT

Community Health Services
- Demonstration grant
- HRSA Grant expand Suboxone

Inpatient Medicine
- Psych consult

Correctional Care Medical Facility
- Probation pilot
- Pregnant women

Jail
- Increased incarceration of opioid user

Emergency Department
- Overdose Response
Opioid Hub & Spoke Model

Key:
- Identification/Diagnosis
- Induction
- OBHS Intake
- Referral
- OUD Treatment
- OUD Maintenance

Diagram showing the flow of patients through different care pathways, including Inpatient, Denver CARES, ED/PES, Corrections, Community Walk Ins, Hub OBHS, Non-DH NTP, CHS, and Non-DH PCP.
Denver Health implemented CAM as strategic growth initiative.

- 2017
  - + OBHS Methadone (NTP) & Suboxone (OBOT)
  - + Inpatient & Jail Methadone

- 2019
  - + Treatment on Demand in Inpatient
  - + ED Suboxone direct to OBHS NTP
  - + Inpatient Suboxone direct to OBHS NTP
  - + Jail to Community Linkage
  - + Treatment on Demand in ED
  - + OBHS Suboxone in NTP
  - + CHS Suboxone
  - + Jail Suboxone
Methods for Implementation

- Innovate
- Secure funding to pilot
- Replicate and build on what has proven to be effective
- Secure funding for sustainability

Continuous Quality Improvement
Evolution of NTP Admissions
Comparison of Jan-June 2017 to Jan-June 2019

2017:  
New Patients 387

2019:  
New Patients 597

Total Admissions:  
54% increase in admissions to Narcotic Treatment Program since 2017

Demographics:  
Increase in admissions among people who are:
• Homeless (94% ↑)
• Without Medicaid (27% ↑)
• 25-35 year olds (25% ↑)
• Male (8% ↑)
Evolution Pre & Post Treatment on Demand

2017

59

+ ED Suboxone direct to OBHS NTP

2018

307

ED MAT Inductions

2019

516

+ Treatment on Demand in ED

Projected 2019

2017

2018

Projected 2019
Evolution Pre & Post Treatment on Demand

### Induction Location

<table>
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<tr>
<th>Location</th>
<th>2018</th>
<th>Projected 2019</th>
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<tr>
<td>ED</td>
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<td>516</td>
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### Linkage

<table>
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<th>Year</th>
<th>Percentage</th>
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<td>2018</td>
<td>51%</td>
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<tr>
<td>2019</td>
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### Retention

<table>
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<td>34%</td>
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<tr>
<td>2019</td>
<td>60%</td>
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Avg Time to Follow-Up:
- 2018: 7 days
- 2019: 2 days
Measuring Success

Baseline data from Denver Health
Published Sept 2019 in Drug and Alcohol Dependence
Goal: Reduce the gaps over time

The Continuum of Opioid Addiction Care in Denver Health in 2017

- Estimated OUD, OM or OP in Denver: ~6,688
- Diagnosed OUD, OM or OP in Denver Health: 3,238 (48.4%, 3,238/6,688)
- Received MAT in Denver Health: 1,051 (32.5%, 1,051/3,238)
- Adhered to MAT: 629 (59.8%, 629/1,051)
- Adhered to ≥90 days of MAT: 493 (78.4%, 493/629)
- In persistent adherence (1 year): 329 (66.7%, 329/493)

Mission, Vision, and Values

Mission:
Coordinate the essential health services for persons with substance use disorders.

Vision:
To be a compassionate model for the prevention and treatment of substance misuse, to transform lives and to educate all.

Values:
The Center for Addiction Medicine is committed to:
- Dignity and equity
- Community collaboration
- Passionate professionals
- Innovative prevention, treatment, research, and education
5 Year Strategic Goals

- Inclusive and Compassionate Care
- Full Continuum of Care
- Financial Sustainability
- Knowledge Management

CAM

5 Year Strategic Goals
Role of CAM Across Region

Expand Knowledge-Base
Training:
  • Residents
  • Fellows
  • Advanced Practice Providers

Telehealth:
  • Consultation for rural providers
  • HRSA grant submitted

Research & Evaluation:
  • Share results widely
  • Partner with others
Gap/Opportunity: Reduce Cost of Opioid-Related Hospitalizations

Cost analysis

Quantified the # of patients with opioid-related hospitalizations at Denver Health in 2017 and estimated the direct costs.

Results:
- 739 opioid-related hospitalizations
  - 22% re-admissions (577 unique patients)
- $35 Million total charges
  - Average $47,406 per opioid-related hospitalization
  - Average reimbursement of $9,751 (21%)

More cost-effective to fund prevention and treatment efforts to reduce re-admissions.
Gap/Opportunity: Payer Parity

MEDICAID REIMBURSEMENT DIFFERENTIAL OBHS

- Substance Tx
- Mental Health

<table>
<thead>
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<th>VOLUME</th>
<th>CHARGES</th>
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<td>93%</td>
<td>75%</td>
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<tr>
<td>7%</td>
<td>25%</td>
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Gap/Opportunity: Treat Comorbid Substance Use Disorders

Additional Substances Used by Patients with OUD

- THC: 41
- Amphetamine: 33
- Benzodiazepine: 17
- Cocaine: 14
Gap/Opportunity: Bolster Non-Opioid Treatment Services

Of the ~5,000 Denver Health hospital admissions of patients with a substance use disorder in 2018, alcohol & methamphetamine use were the most common substances used by patients (64%)
Questions?

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Overdose Awareness Day
Memorial at Rita Bass
August 30, 2019
3-4pm