Development of a Hub and Spoke Model of Medication Assisted Treatment (MAT) in Rural Communities of Western Colorado for Patients with Opioid Use Disorder (OUD)

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Problem
- Opioid Use Disorder (OUD) impacts 2 million Americans
- Drug overdose deaths continues to increase
  - Prescription Opioids
  - Illegal Opioids
- Predicted without intervention this number will increase
- Medication Assisted Treatment (MAT) is the “Gold Standard” for treatment of OUD for risk reduction

Background Information
- 2017, in Colorado, more than 1,000 opioid-overdose deaths as a result of prescription opioids and illegal opioids
- Center for Disease Control identified 70,237 drug overdose deaths nationally
- Challenges exist in rural areas of western Colorado using MAT
- “Hub and Spoke” originally launched in Vermont in 2012–deemed effective model for MAT therapy in rural areas where a health care facility serves as the service “hub” and community-based providers serves as “spokes”.
- A Hub and Spoke model of MAT implemented in rural western Colorado
  - Mind Springs Health: “Hub”
  - Two local provider offices: “Spokes”

Process
- Community leaders in Grand Junction partner together to address the opioid crisis locally
- “Hub” develops a team that included an Advanced Practice Psychiatric Nurse Practitioner, Peer Specialist, Therapist, Case Manager, and MOA.
- MAT was started using the Hub and Spoke Model, February 2018
- MAT Contract developed
- “Spokes” set up in the local community with two PCP offices.

Setting and Participants
- Rural Western Colorado
- Grand Junction—largest town on the western slope of Colorado
- Estimated population of 61,881
- HUB: Mind Springs Health (MSH)—largest community mental health clinic in Grand Junction
- SPOKES: Local primary care providers (PCPs), MSH mental health clinics in smaller rural areas of the western slope
- Clients self-referred to MSH or referred by PCPs
- Clients have qualifying diagnosis of an OUD
- Clients agree to the MAT contract
- Clients seen at the “Hubs” for evaluation and appropriateness for MAT by the Nurse Practitioner
- Clients placed into a category of induction vs maintenance

Results
- Fully operational and reached max clients (30) by October 2018
- APN approved to expand to 100 clients November 2018 in MAT
- Clinic team added another APN April 2019
- Coordination with Mesa County Public Health early 2019 for education at CMU and the local community
- Started Telehealth to rural areas March 2019
- Two PCP practices successfully able to see clients as spokes by December 2018
- Plan for expansion of MAT to the jail
- Quality Improvement (QI) projects for patient satisfaction in early stages by April 2019

References
- “Medication-Assisted Treatment for Opioid Use Disorder Study (MAT Study)” Center for Disease Control (CDC) Opioid Portal, Web, Mar 2019. (https://www.cdc.gov/opioid/MedicationAssistedTreatmentOpioidUseDisorderStudy.html)

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Hub and Spoke Model
- PCP 1
- PCP 2
- GLENWOOD
- STEAMBOAT
- FRISCO
- JAIL

MAT
CASE MANAGEMENT MENTAL HEALTH THERAPY