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# Evaluating Blueprint's Health Home Program for Opioid Use Disorder Using Linked Data Sources

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October 4, 2017

# Hub & Spoke Background

- Vermont’s “Health Home” program is designed to treat Vermonters with chronic opioid use disorder by expanding access to Medication Assisted Treatment (MAT) in a coordinated care model
  - Partnership among providers, Dep’t of Health, and Blueprint
- Hubs – regional opioid treatment programs
  - MAT – methadone, buprenorphine, or Vivitrol
  - Coordinate referrals to ongoing care and provide consultation
- Spokes – primary, specialty practice teams acting as health homes
  - MAT – buprenorphine or Vivitrol
  - Supported by specialized resources in community health teams

# Health & Demographics

Adult Population, Ages 18-64 (Medicaid); CY2008 – CY2013

Measure	MAT	Non-MAT	P-Value
N	6,158	2,494	
Hepatitis C Diagnosis	20.6%	10.0%	<0.001
Serious Mental Condition	21.6%	20.4%	<0.234
Pre- and Perinatal Care (Denominator = Female)	31.0%	12.9%	<0.001
Depression Diagnosis	50.7%	43.0%	<0.001
Asthma Diagnosis	22.5%	18.0%	<0.001

# Adjusted Rate Differences

Adult Population, Ages 18-64 (Medicaid); CY2008 – CY2013

Measure	MAT	Non-MAT	Difference	P-Value
Total Expenditures	\$14,468	\$14,880	-\$412	<0.07
Expenditures (Excluding Treatment Cost)	\$8,794	\$11,203	-\$2,409	<0.01
Inpatient Discharges	0.30	0.52	-0.22	<0.01
Inpatient Days	1.54	3.00	-1.46	<0.01
Outpatient ED Visits	1.44	2.48	-1.04	<0.01
Primary Care Visits	15.27	9.81	+5.46	<0.01

# Evaluation & Reporting

- Baseline study published in the *Journal of Substance Abuse Treatment*
- “Hub,” “Spoke,” and program-wide profile reporting (publicly available online)
- Expansion evaluation using difference-in-difference model
  - Preliminary results show positive pre/post outcomes for MAT relative to non-MAT

# Future Enhancements

- New risk factors (e.g., chronic pain)
- New outcome measures (e.g., retention)
- Additional CMS Health Home measures
- Incorporation of commercial and Medicare populations
- Integration of additional linked data sources (e.g., death registry, corrections, etc.)

# Putting Data to Use

- Hub & Spoke profile reports:  
[blueprintforhealth.vermont.gov/reports\\_and\\_analytics/hub\\_and\\_spoke\\_data\\_profiles](https://blueprintforhealth.vermont.gov/reports_and_analytics/hub_and_spoke_data_profiles)
  - Patient demographics
  - Expenditure patterns
  - Quality measures
  - Variation by region and by program
- Outcomes evaluations
- Feedback mechanism to providers, program managers, and funding sources



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