

Limiting the Duration of Medication Assisted Treatment for Opioid Addiction: Will New State Policies Help or Hurt?

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Treatment for Opioid Dependence

- A variety of drug-free treatments, including professionally led and selfhelp
- Medication assisted treatment



- -Buprenorphine
- -Methadone
- -Naltrexone



Evidence strongly supports medication assisted treatment

- Effectiveness of drug free treatment varies widely
- Methadone is slightly more effective than buprenorphine
- Extended release naltrexone not available until late 2010

Concerns about medication assisted treatment (MAT)

- Diversion
- Methadone overdose
- Cost of long-term maintenance
- Public opinion (e.g. "substituting one opioid for another")

THE IRISH TIMES

Long-term methadone use is form of 'State -sponsored social control'

Some addicts had been on the methadone treatment programme for 20 years



The New York Times

THE DOUBLE-EDGED DRUG Addiction Treatment With a Dark Side

In Demand in Clinics and on the Street, 'Bupe' Can Be a Savior or a Menace

By DEBORAH SONTAG NOVEMBER 16, 2013

DATLY NEWS AMERICA | NEW YORK | LOC

HEALTH

'Methadone may be 'legal,' but isn't it as deadly as the heroin and Oxycontin addiction it's supposed by curing?'

As the nation's heroin addiction goes up, so does m From 1999 to 2009, we have had a 600% increase i

NEW YORK DAILY NEWS / Friday, October 26, 2012, 10:31 AM

These concerns shape treatment access for Medicaid beneficiaries

- Methadone maintenance is limited in many states
- Increasingly, Medicaid programs are limiting the lifetime duration of treatment (6 months to 3 years)

The state policy perspective

- 1. How many long-term MAT users are there?
- 2. What might the effects of restricted MAT treatment length be?
- 3. Are non-drug treatments for opioid addiction a viable alternative?
- 4. Can states save money by limiting the duration of treatment?

Sample

- 56,278 Medicaid members in MA treated for opioid addiction (2004 – 2010)
- 108,145 episodes of treatment lasting 3 months or more
- Allowing for a break of up to 60 days within an episode

Data

- Medicaid claims and enrollment 2003 -2010
- Merged with other Public Health treatment data
- Relapse event = detoxification, emergency department visit, or hospitalization for substance abuse

Study design

- Compare buprenorphine, methadone and non-medication treatment episodes
- Outcome measures: episode length, relapses per month, Medicaid expenditures per month
- Adjust for demographics and clinical characteristics
- Members followed for up to 36 months

MassHealth Members Treated for Opioid Addiction between 2004 -2010

		Type of Treatment Received ¹		
	Total	Buprenorphine	Methadone	Other
Characteristic	(N =56,278)	(N = 18,866)	(N = 24,309)	(N =31,220)
Gender, n (%)				
Male	32,636(58.0)	10,999(58.3)	14,089(58.0)	17,274 (55.3)
Female	23,642(42.0)	7,867(41.7)	10,220 (42.0)	13,946(44.7)
Average age ² , mean (SD)	33.8(10.4)	32.1 (9.5)	32.7 (9.8)	34.5(10.7)
CDPS ² , mean (SD)	3.2(2.0)	3.0(1.7)	2.8(1.8)	3.4(2.2)
Behavioral health diagnosis ² , n (%)				
SMI	13627 (24.2.9)	3,878 (20.6)	3,877(16.0)	10,311 (33.0)
Other	13,647 (24.3)	5,080 (26.9)	5,397 (22.2)	7,660(24.5)
Major depression	8,113(14.5)	2,564(13.6)	2,982(12.3)	5,397(17.3)
Co-occurring substance use ² , n (%)				
Alcohol	12,861 (22.9)	3,338(17.7)	3,030(12.5)	10,019(32.1)
Other drug	19,266 (34.2)	7,783(41.3)	7,111 (29.3)	11,157 (35.7)
Treatment episodes per person, mean (SD)	1.9(1.2)	1.3(0.7)	1.3(0.7)	1.5(0.8)
Medicaid expenditures ³ , mean (SD)	\$1,086(2224)	\$867 (1802)	\$1,002(1855)	\$1,485(3074)
Relapse during treatment ⁴ , n (%)	19,578 (34.8)	3,901 (20.7)	4,786(19.7)	13,578(43.7)

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Length of Episodes: Methadone, Buprenorphine & Other Treatment



Percentage in treatment

Treatment length	Buprenorphine	Methadone	Other
Month 1	100%	100%	100%
Month 6	62%	78%	40%
Month 12	33%	52%	12%
Month 24	13%	27%	1%
Month 36	5%	9%	< 1%

Statistical comparisons

- Cox proportional hazards for time to 1st relapse
- GEE for expenditures
- Adjusted for age, gender, mental health diagnoses, other substance abuse, disease burden, relapses prior to the current episode, prior costs

Relapse Rates: Methadone, Buprenorphine & Other Treatment



Factors contributing to relapse

Cox proportional hazards survival model

Factor	Hazard rate
Alcohol abuse	3.7
Other drug abuse	2.1
Relapses 6 months before treatment	1.9
Severe mental illness	1.8
Buprenorphine treatment	0.31
Methadone treatment	0.26

Full model includes: age, gender, disease burden, relapses 6 mos. before tx., severe mental illness, major depression, other mental illness, alcohol abuse, other drug abuse, treatment type.

Average Monthly Medicaid Expenditures



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Adjusted Monthly Costs selected factors¹ Generalized Estimating Equations

Factor	Regression coefficient (CI)
Alcohol abuse	\$396 (360, 430)
Severe mental illness	\$249 (220, 277)
Other drug abuse	\$106 (86,125)
Disease burden (per CDPS point) ²	\$146 (135, 158)
Buprenorphine treatment	- \$386 (- 409,- 363)
Methadone treatment	- \$146 (- 170,-123)

¹ Full GEE model includes: age, gender, disease burden, cost before tx, severe mental illness, major depression, other mental illness, alcohol abuse, other drug abuse, treatment type. Clustered by year of treatment start.

² Chronic Illness and Disability Payment System. Kronick et al 2000

Limitations

- Relied on administrative data
- Non-randomized study. Cannot control for unobserved differences in individuals using different treatments.
- Other important outcomes were not included—abstinence, arrest, incarceration, death

Conclusions

- Most treatment episodes last less than 2 years
- Relapse rates are lower for MAT
- Medicaid costs are lower for MAT
- Relapses and costs decrease with longer treatment

Policy implications

- 6 month treatment limits would affect most MAT users
- Limiting MAT is likely to increase relapse rates and costs
- Current non-drug treatment does not appear to be a dependable alternative to MAT