

Overview

- 1. Review concepts:
 - Hospitals aggregate disordered pts
 - Negative impact
 - Reachable Moment
- 2. Project Engage
- 3. Opioid Withdrawal Pathway

No Financial Disclosures

Hospitals Aggregate the Disordered

- Doors are always open
- Substance use disorders are common and severe*
- High dosages of heroin/fentanyl
- IVDA instead of inhaled
- Early medical sequelae
- Increasing OD rate



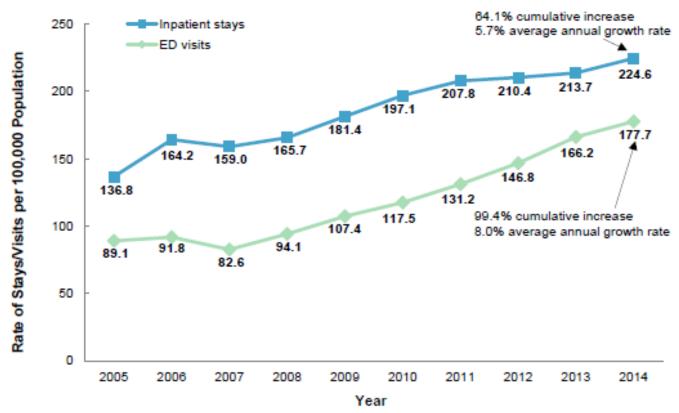




^{*} Saitz, JGIM, 2006; Bertholet, JGIM, 2010

Rising Opioid-related Inpt and ED Visits

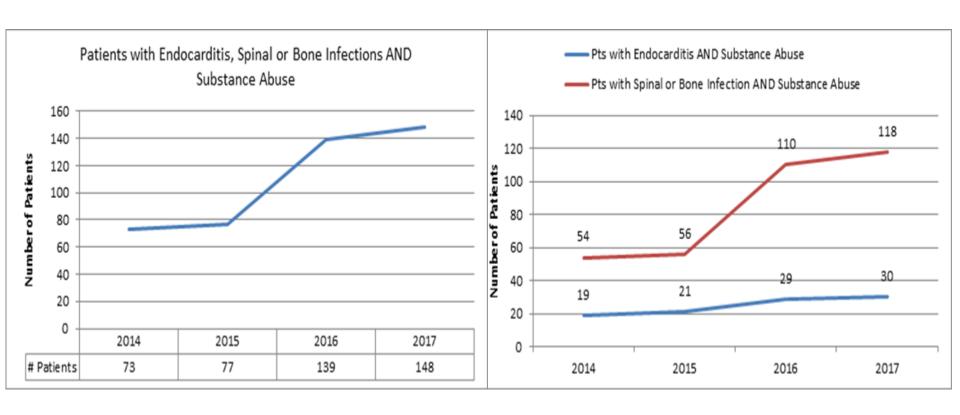
Figure 1. National rate of opioid-related inpatient stays and emergency department visits, 2005–2014



Abbreviation: ED, emergency department

Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats, Opioid-Related Hospital Use (http://www.hcup-us.ahrq.gov/faststats/landing.jsp) based on the HCUP National (Nationwide) Inpatient Sample (NIS) and the HCUP Nationwide Emergency Department Sample (NEDS)

Impact on CCHS



- Rates of endocarditis, spinal and bone infections are increasing
- Each requires 6 week hospitalization for IV ABX via PICC line
- Anticipate 6216 bed days used in 2017

Hospital As "Reachable Moment"



Christopher Shanahan, MD

Transitional Opioid Program (TOP)

- January 2002—January 2005, Boston Medical Center
- 288, out-of-treatment, opioid-dependent patients hospitalized offered methadone induction and facilitated admission to a transitional OTP
- 89% of those eligible (255/288) reported interest in addiction treatment.
- Of 203 participants initially enrolled during hospitalization, TOP tx was provided to 59% (119/203)
- 35% (71/203) enrolled in a long-term OTP, 15% (31/203) completed methadone taper, 4% (9/203) entered outpatient or residential substance abuse treatment, and 2% (5/203) entered an inpatient detoxification facility.

Intervening on the Medical Ward

locoarch

Original Investigation

Buprenorphine Treatment for Hospitalized, Opioid-Dependent Patients A Randomized Clinical Trial

Jane M. Liebschutz, M.D. MPH; Denise Crooks, MPH; Debra Herman, PhD; Bradley Anderson, PhD; Judith Tsui, M.D. MPH; Lidia Z. Meshesha, BA; Shernaz Dossabhoy, BA; Michael Stein, M.D

IMPORTANCE Buprenorphine opioid agonist treatment (OAT) has established efficacy for treating opioid dependency among persons seeking addiction treatment. However, effectiveness for out-of-treatment, hospitalized patients is not known.

OBJECTIVE: To determine whether buprenorphine administration during medical hospitalization and linkage to office-based buprenorphine OAT after discharge increase entry into office-based OAT, increase sustained engagement in OAT, and decrease illicit opioid use at 6 months after hospitalization.

DESIGN, SETTING, AND PARTICIPANTS From August 1, 2009, through October 31, 2012, a total of 663 hospitalized, opioid-dependent patients in a general medical hospital were identified. Of these, 356 did not meet eligibility criteria. A total of 145 eligible patients consented to participation in the randomized clinical trial. Of these, 139 completed the baseline interview and were assigned to the detoxification (n = 67) or linkage (n = 22) group.

INTERVENTIONS Five-day buprenorphine detoxification protocol or buprenorphine induction, intrahospital dose stabilization, and postdischarge transition to maintenance buprenorphine OAT affiliated with the hospital's primary care clinic (linkage).

MAIN OUTCOMES AND MEASURES Entry and sustained engagement with buprenorphine OAT at 1, 3, and 6 months (medical record verified) and prior 30-day use of illicit opioids (self-report)

RESULTS During follow-up, linkage participants were more likely to enter buprenorphine OAT than those in the detoxification group (52 [72 -24]) vs 8 [119:4], P < 200]. At 6 months, 12 linkage participants (16.7%) and 2 detoxification participants (3.0%) were receiving buprenorphine OAT (P - 0.07). Compared with those in the detoxification group, participants randomized to the linkage group reported less lilict opioid use in the 30 days before the 6-month interview (incidence rate ratio, 0.60; 95% CI, 0.46-0.73; P < .01) in an intent-to-fread analysis.

CONCLISIONS AND RELEVANCE: Compared with an inpatient detoxification protocol, initiation of and linkage to buprenorphine treatment is an effective means for engaging medically hospitalized patients who are not seeking addiction treatment and reduces illicit opioid use 6 months after hospitalization. However, maintaining engagement in treatment remains a chailenge.

Copyright 2014 American Medical Association, All rights reserved.

TRIAL REGISTRATION clinicaltrials.gov identifier: NCTO0987961

JAMA Intern Med. 2014;174(8):1369-1376. doi:10.1001/jamainternmed.2014.2556 Published online June 30. 2014. Invited Commentary page 1377

CME Quiz at jamanetworkcme.com

Author Affiliations: Clinical Addiction Research and Education Unit, Section of General Internal Medicine, Department of Medicine, Boston Medical Center, Boston, Massachusetts (Hebschutz Crooks Tsul, Dossabhoy); Department of Medicine, Boston University School of Medicine, Boston, Massachusetts (Liebschutz, Tsul); Department of General Internal Medicine Butler Hospital, Providence, Rhode Island (Herman, Anderson, Stein): Department of Medicine, The Warrer Alpert Medical School of Brown University, Providence, Rhode Island Herman, Anderson, Stein) Department of Psychology, The University of Memphis, Memphis,

Corresponding Author: Jane M. Liebschutz, MD, MPH, Boston Medical Center, 801 Massachusetts Ave, Second Floor, Boston, MA 02118 (ane liebschutz@bmc.org).

1369

JAMA Internal Medicine

N = 139 opioid-dependent patients admitted into a general medical hospital

- 5 day bup induction, stabilization and transition vs. detox
- Improved linkage 72.2% vs 11.9%, (P < .001)
- **6 months retention** 16.7% vs 3.0% (*P* = .007)
- less illicit opioid use in the 30 days before the 6-month interview (incidence rate ratio, 0.60; 95%CI, 0.46-0.73; P < .01)

Project Engage

- Since 2008, 2000 patients/yr in the Inpt hospital, ED and outpt clinics
- Imbedded Peer counselor from local drug treatment program
- Bedside peer-to-peer intervention using Motivational Interviewing
- Partnering with a Social Worker for rapid discharge planning







Early data from project engage: a program to identify and transition medically hospitalized patients into addictions treatment

Anna Pecoraro, Terry Horton, Edward Ewen, Julie Becher, Patricia A Wright, Basha Silverman, Patty McGraw, and George E Woody

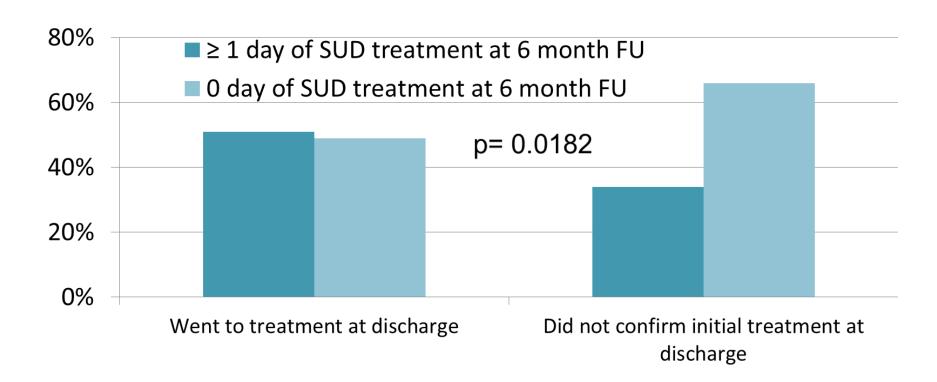
- N = 415 patients
- 180 (43%) were admitted for SUD treatment
- Significant reductions in inpt and Er utilization with concomitant savings (approx \$3000/pt seen)

Addiction Science & Clinical Practice 2012, 7:20 doi:10.1186/1940-0640-7-20

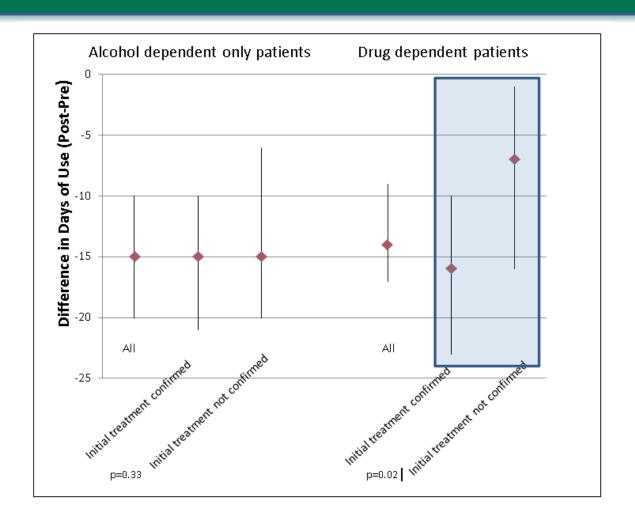


Program Evaluation

Figure 1. Patients who went to SUD treatment at discharge and are still in treatment at 6 months follow-up (n=192)



Days of use 6 months post and pre Tx

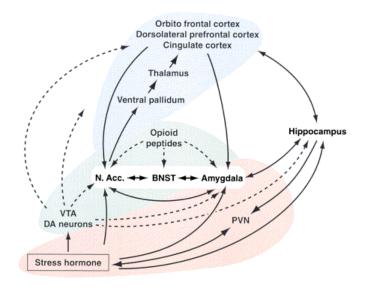


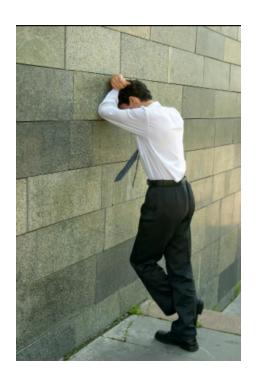
^{*} The red triangles represent the median difference and the vertical bars, the non-parametric 95% confidence intervals

^{**} The differences post minus pre were all statistically significant (p<0.0001, Wilcoxon-signed rank test)

Opioid Withdrawal

- With dependence, brain mal adapts
- Collection of reproducible symptoms when opioids are removed – PRIMAL MISERY
- Highly motivating





Opioid Withdrawal is a Safety Issue

Poorly addressed opioid withdrawal negatively impacts:

- 1. ability to address acute serious health consequences of addiction
- 2. ability to engage and transition into community-based drug treatment

CCHS Response to the Opioid Epidemic

- 2016: Behavioral Health partnered with Acute Care Service Line
- Inpatient Medical Service
 - Screening and Identification of admitted patients
 - Rapid treatment of withdrawal by medical team
 - Inpatient initiation of drug abuse treatment
 - Addiction Medicine Consultation Service
 - Referral to community-based care using Project Engage

Opioid Withdrawal Clinical Pathway

Opioid Withdrawal Risk Assessment (OWRA)

Yes to either question prompts patient for next screening process – COWS assessment of withdrawal.

	Information obtained from	Patient O Other
	Name	
	Relationship	
*	Have you used heroin or prescription pain medications other than what was prescribed in the last week?	Yes No Refused Unable to respond
•	Do you get sick if you can't use heroin, methadone or prescription pain medications?	 Yes No Denies Use Refused Unable to respond



Addiction Medicine Consult Liaison

- Initially starte adoption at b
- One full time
- Project Engag
 partnering are
- Goals: Patient



pioid Pathway

se Practitioner

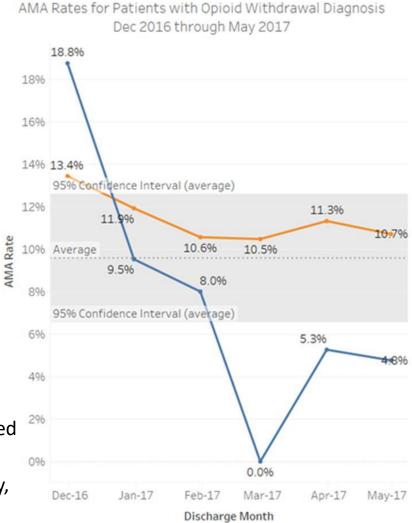
/Social Worker

^r support

Opioid Withdrawal Clinical Pathway Results

7 months of performance	#	%
Total Medical Service Admissions	34,503	
Total Medical Service Admission Screened	24,748	72
Total Screened positive	767	3.1
Showing opioid withdrawal COWS > 8	173	.7

- 22.5% of screen + have opioid withdrawal
- 49.7% of patients in Opioid Withdrawal (COWS>=8) receive bup/naloxone
- Estimate identifying 1000+ opioid use disordered patients a year not engaged in treatment
- Screening Tool Validation study: 98% specificity, 47% sensitivity



Reachable Moment

Early Outcomes from Addiction Medicine CL

- 53/86 (62%) asked to remain on agonist therapy and transition to community care
 - -Only 27/86 refused
 - -4/86 already in care
 - -12/86 ama, rest into nursing homes or ICU
- 10/27 (37%) who refused, signed out AMA vs 4% accepting
- 41/53 (78%) successfully attended their initial appt
- 29/40 (71%) retained at least 1 month at the community program
- 180 patients, 2/3 requesting MAT of which 63% remain in MAT at one month

Summary

- 1. Heroin use disordered patients likely to interact with health systems
- 2. Opioid withdrawal provides a reachable moment
- 3. Opioid pathway is showing early success identifying, engaging and transitioning patients into early recovery

