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Katherine Nenninger
Maine Medical Center

Jenny Carwile
Maine Medical Center

Jonathan Fellers
Maine Medical Center

Kinna Thakarar
Maine Medical Center

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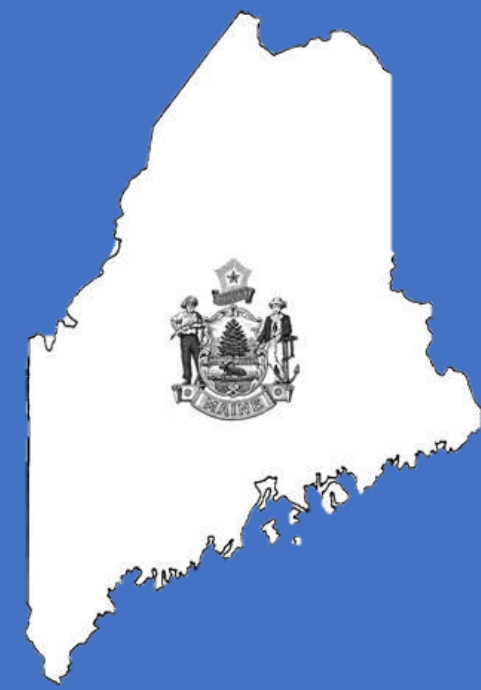


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Characteristics of Inpatients with Opioid Use Disorder Seen by "IMAT" Consult Service from 7/2016 - 6/2017

Katherine Nenninger¹, MD, Jenny Carwile¹, MPH ScD, Jonathan Fellers², MD, Kinna Thakara^{3,4,5}, DO MPH

¹Internal Medicine, Maine Medical Center, Portland, Maine, ²Psychiatry, Maine Medical Center, ³Infectious Diseases, Maine Medical Center, ⁴Tufts Medicine Center, Boston, Massachusetts, ⁵Intermed Infectious Disease, Portland, Maine

Intro:

- For people with opioid use disorder (OUD), admission to the hospital can provide an opportunity to initiate substance use disorder (SUD) treatment and preventive care
- In 2016, a multidisciplinary "IMAT" (integrated medication for addiction treatment) inpatient team was established to help treat patients with SUD

Aims

- Describe inpatients with OUD, including psychiatric and infectious comorbidities, who were evaluated by the IMAT team
- Identify areas of need and opportunities for practice improvement

Methods:

- Retrospective chart review of inpatients at MMC seen by the IMAT consult service for illicit opioid use disorder between 7/1/2016 – 6/30/2017.
- Data was recorded directly into a secure online REDCap database
- Descriptive analysis was performed using SAS

Discussion:

- Many patients with OUD engaged in addiction treatment, and had follow up planned after discharge
- An important further area for investigation is treatment retention; high rates of housing instability and unemployment may be obstacles
- Only 10% of patients were documented to be offered naloxone kits, with fewer accepting the prescription. Given polysubstance use and overdose risk in this population, naloxone distribution is an area for improvement
- High rates of hepatitis C co-infection, as well as low rates of hepatitis B vaccinations, raise the question of whether and how these could be addressed during hospitalization

Summary of results:

This analysis showed that hospitalized patients with opioid use disorder who received multidisciplinary IMAT services had high utilization of medication for addiction treatment.

However, there were low implementation of preventive measures to decrease risk of overdose fatalities and injection-related infections.

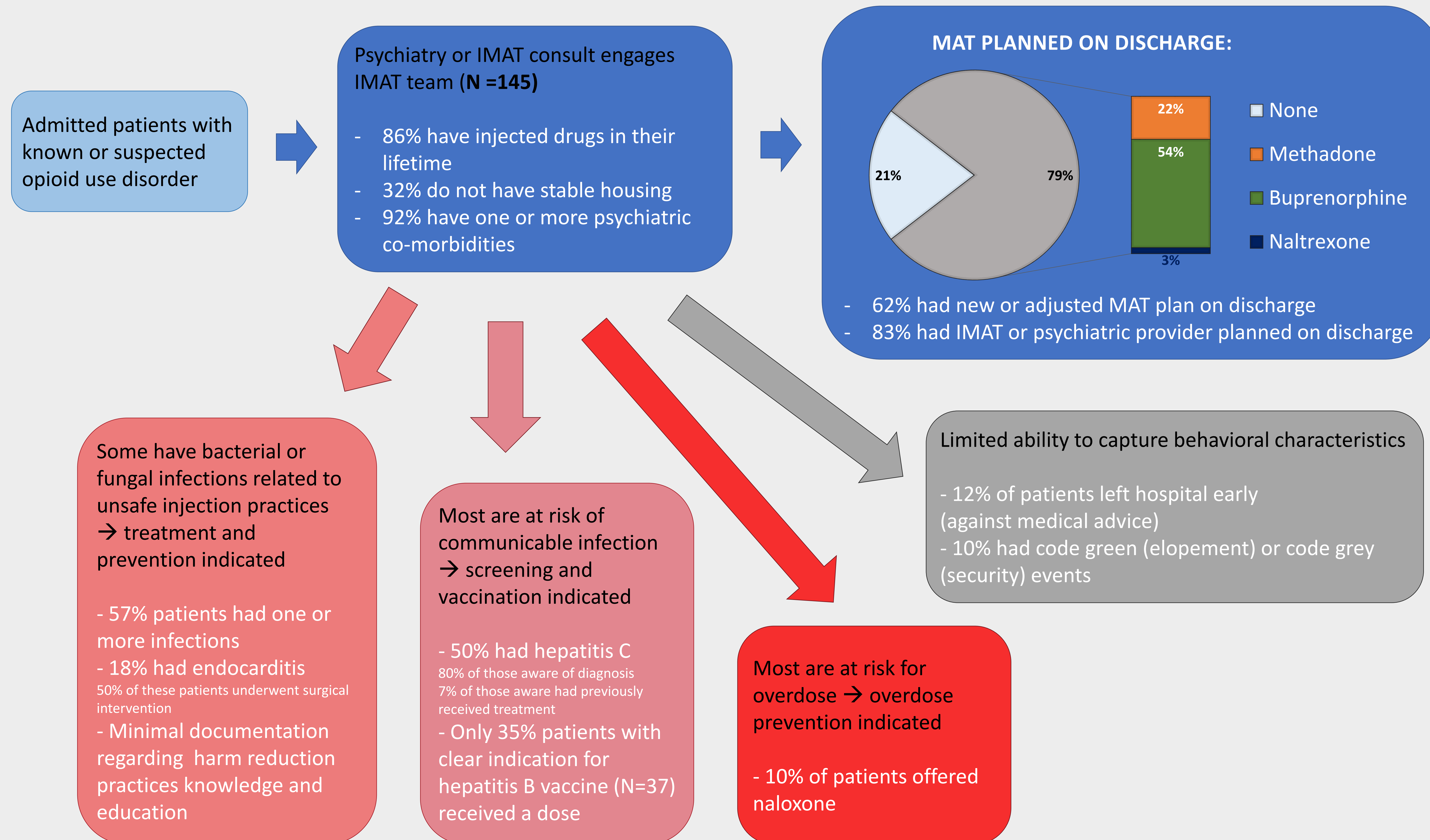


Table 1. Additional characteristics of 145 patients seen by IMAT team between July 2016 and July 2017, N (%).

Female	57 (39.3)
Pregnant	10 (17.5)
Age, years	
<19	1 (0.7)
19-30	36 (24.8)
31-50	88 (60.6)
≥51	20 (13.8)
Unemployed ¹	88 (60.7)
Homeless or unstable housing ¹	47 (32.4)
Rural ^{2,3}	29 (21.0)
History of psychiatric comorbidities ⁴	
Psychosis	10 (6.9)
Depression	93 (64.1)
Anxiety	80 (55.2)
Bipolar disorder	20 (13.8)
PTSD	32 (22.1)
ADHD	32 (22.1)
Personality disorder	18 (12.4)
Admission duration, days, median [range]	10 [2-129]
Discharge disposition	
Home (including homeless shelter)	117 (80.7)
Left hospital early (against medical advice)	18 (12.4)
Rehab	7 (4.8)
Hospice or death	1 (0.7)
Other	2 (1.4)
Behavioral contract established	33 (22.8)
Current substance use	
Illicit opioid use	87 (60.0)
Cocaine	83 (57.2)
Benzodiazepines	26 (18.1)
Cannabis	46 (31.7)
Controlled substance prescriptions prior to admission	
None	71 (49.3)
Opioids	21 (14.5)
Buprenorphine ⁵	38 (26.4)
Benzodiazepines	23 (15.9)
Amphetamines	15 (10.3)
History of injection drug use	
Yes	119 (85.6)
Denied, but suspected	2 (1.4)
Current injection drug use	
Yes	76 (54.3)
Denied, but suspected	12 (8.6)
Bacterial infections ⁴	
Cellulitis or osteomyelitis	30 (20.7)
Bacteremia	37 (25.5)
Endocarditis	26 (17.9)
Required valve surgery	13 (50.0)
Spinal epidural abscess	11 (8.1)
Septic joint	10 (6.9)
Pneumonia	25 (17.2)
Other	20 (16)
Infectious disease consultation	59 (40.7)
Viral coinfections	
Hepatitis C	
Not tested	51 (35.2)
Negative	22 (15.2)
Positive	72 (49.7)
Diagnosed during admission	14 (18.7)
Hepatitis B	
Not tested	65 (45.5)
Positive	15 (10.5)
Hepatitis A	
Not tested	109 (75.2)
Positive	8 (5.5)
HIV	
Not tested	59 (40.7)
Positive	2 (1.4)
Missed Hepatitis A vaccination ⁶	18 (64.3)
Missed Hepatitis B vaccination ⁶	24 (64.9)

¹ Unknown status: Employment, N= ; Housing, N=

² Missing data: rural, N=7

³ Rural status of non-incarcerated Maine and New Hampshire residents was classified using Rural-Urban Continuum Codes for their county of residence.

⁴ May report more than one diagnosis

⁵ Includes buprenorphine and buprenorphine/naltrexone

⁶ Percentages reported out of patients for whom vaccine was determined with certainty be indicated (negative serologies)

Abbreviations: ADHD, Attention Deficit Hyperactivity Disorder; ED, emergency department; PTSD, post-traumatic stress disorder; MAT, medication for addiction treatment

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