
An interprofessional model for treatment of alcohol use disorder in a public hospital

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Background

- Alcohol use disorder (AUD) is prevalent among hospitalized individuals.
 - 1 in 4 patients at our hospital has unhealthy alcohol use.
- In national samples, <2% are prescribed medication for AUD
- There are racial disparities in treatment

Martin et al, 2022; Bernstein et al, 2023; Han et al, 2021; Oldfield et al, 2022; Acevedo et al, 2024

Background

- Hospitalization offers an opportunity to detect and treat AUD which may improve post-hospitalization outcomes¹
- Addiction consult teams (ACT) can increase MAUD prescribing²
- ACTs may not have capacity to see all patients with AUD, nor do all hospitals have ACT
- Interprofessional models can augment the reach of interventions to increase AUD treatment

Bernstein et al, 2024. Singh-Tan et al, 2023

ACT's Approach



Empathy and
Respect



Patient-centered
Goals

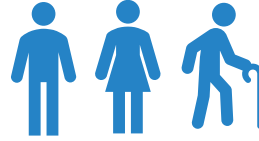


Evidence-based
treatment



Linkage

Patient Admitted



Admitting RN screens for Unhealthy Alcohol Use

Primary Team Consults ACT for Unhealthy Alcohol Use

Positive Screen, CIWA, ICD-10 alcohol-related diagnosis, elevated BAL

LVN AUD Symptom Checklist + Motivational Interviewing

ACT Triages Consult

Risky Use → Education

AUD

LVN

PN/Peer

Clinician

Uncomplicated → Discuss MAUD → Inform Primary Team

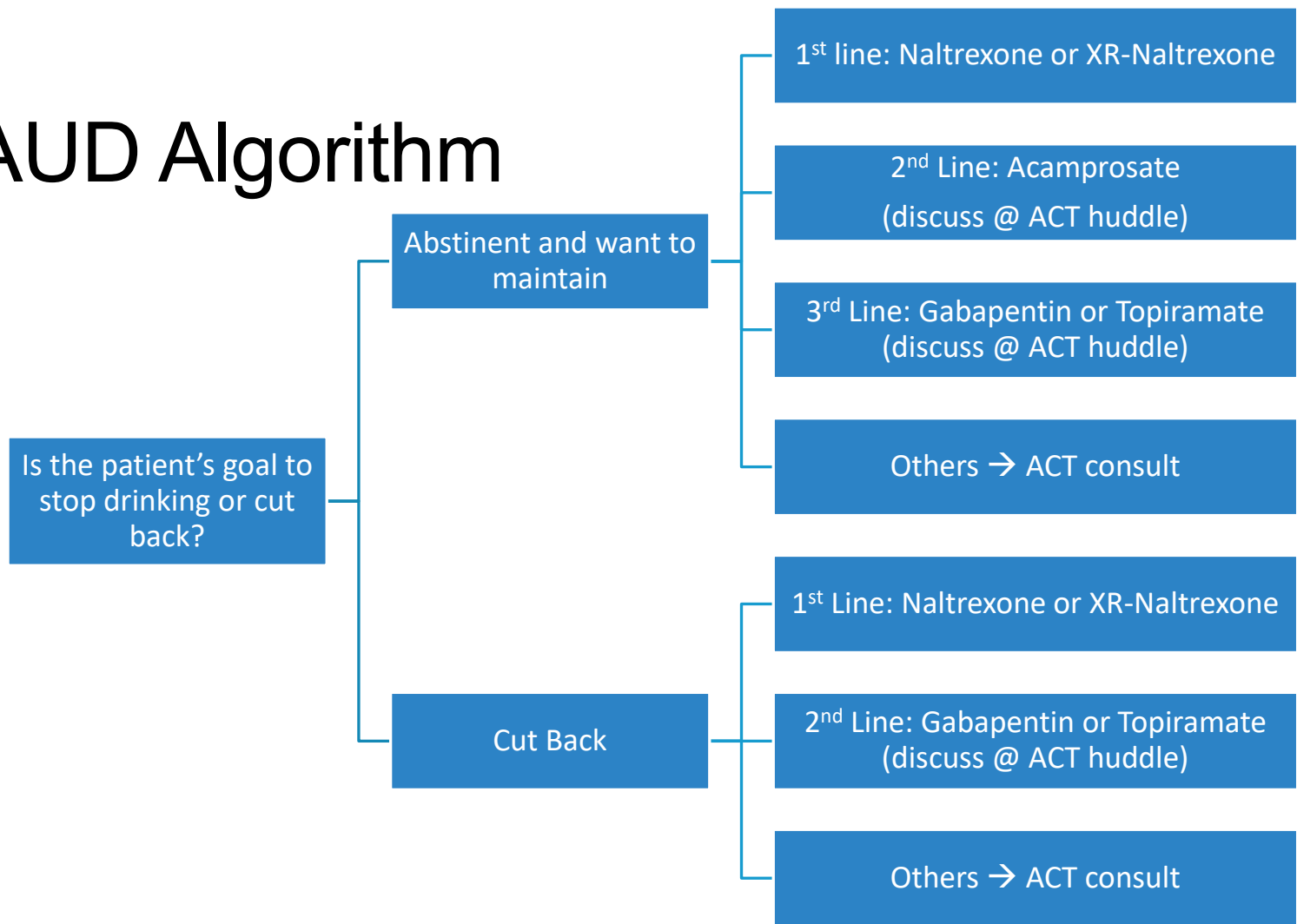
Complicated

Full ACT Consult

ACT LVNs: Screening, Prevention, Education

ACT Clinicians + Peer + Navigator: Assessment, Treatment, & Linkage

MAUD Algorithm



Objective

To understand the characteristics and MAUD prescribing rates among hospitalized adults with AUD seen by ACT Licensed Vocational Nurses

Methods

Retrospective cohort study of hospitalizations

Inclusion Criteria

- Adults \geq 18yo
- Primary or secondary diagnosis of AUD

Exclusion Criteria

- Death

Setting

- Urban, public hospital

Time

- August 2019 - December 2023

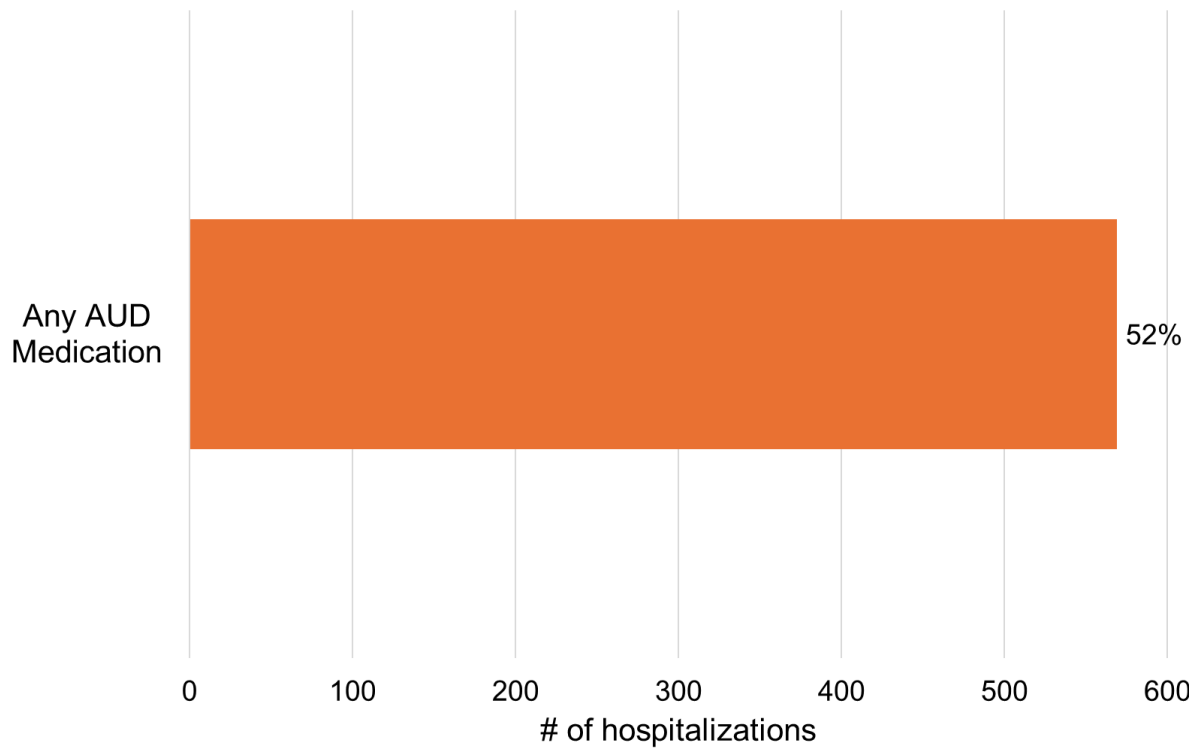
Results: Characteristics of Hospitalizations with AUD Seen by ACT LVNs

| | |
|------------------------------------|-------------|
| Total hospitalizations, n | 1,095 |
| Unique patients, n (%) | 811 (74.1%) |
| Age, years, median (IQR) | 47 (20) |
| Male, n (%) | 883 (80.6%) |
| Race/Ethnicity, n (%) | |
| Latine | 438 (40%) |
| White | 366 (33.4%) |
| Black/AA | 211 (19.3%) |
| English, n (%) | 883 (80.6%) |
| Unhoused, n (%) | 440 (41.2%) |
| Publicly Insured, n (%) | 845 (77%) |
| Admitted to Medical Service, n (%) | 972 (88.8%) |
| Mean Length of Stay, days (IQR) | 5 (5) |
| Self-Directed Discharge, n (%) | 72 (6.6%) |

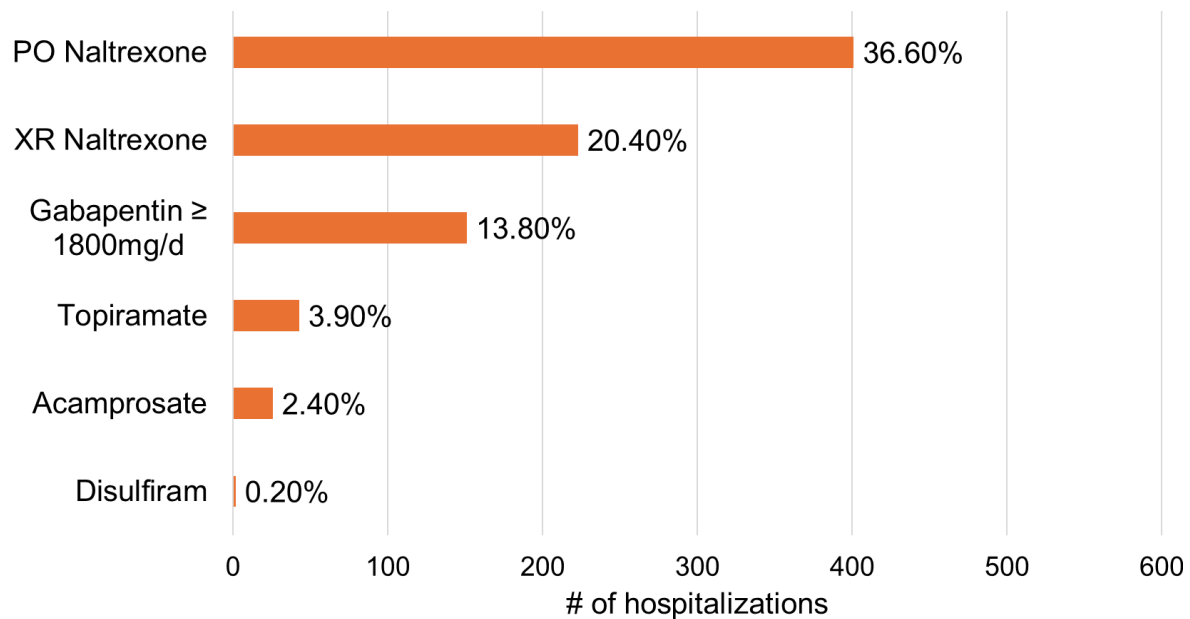
Results: Substance Use Disorder & Mental Health Diagnoses Among Hospitalizations with AUD Seen by ACT LVNs

| | |
|--------------------------------|--------------|
| Total hospitalizations | 1,095 |
| Nicotine dependence | 422 (38.5%) |
| Other SUD | 466 (43.6%) |
| Opioid | 233 (21.3%) |
| Stimulants | 364 (33.2%) |
| Opioid and Stimulant | 144 (13.2%) |
| Sedative Hypnotic | 24 (2.2%) |
| Mental Health Diagnoses | 528 (48.2%) |

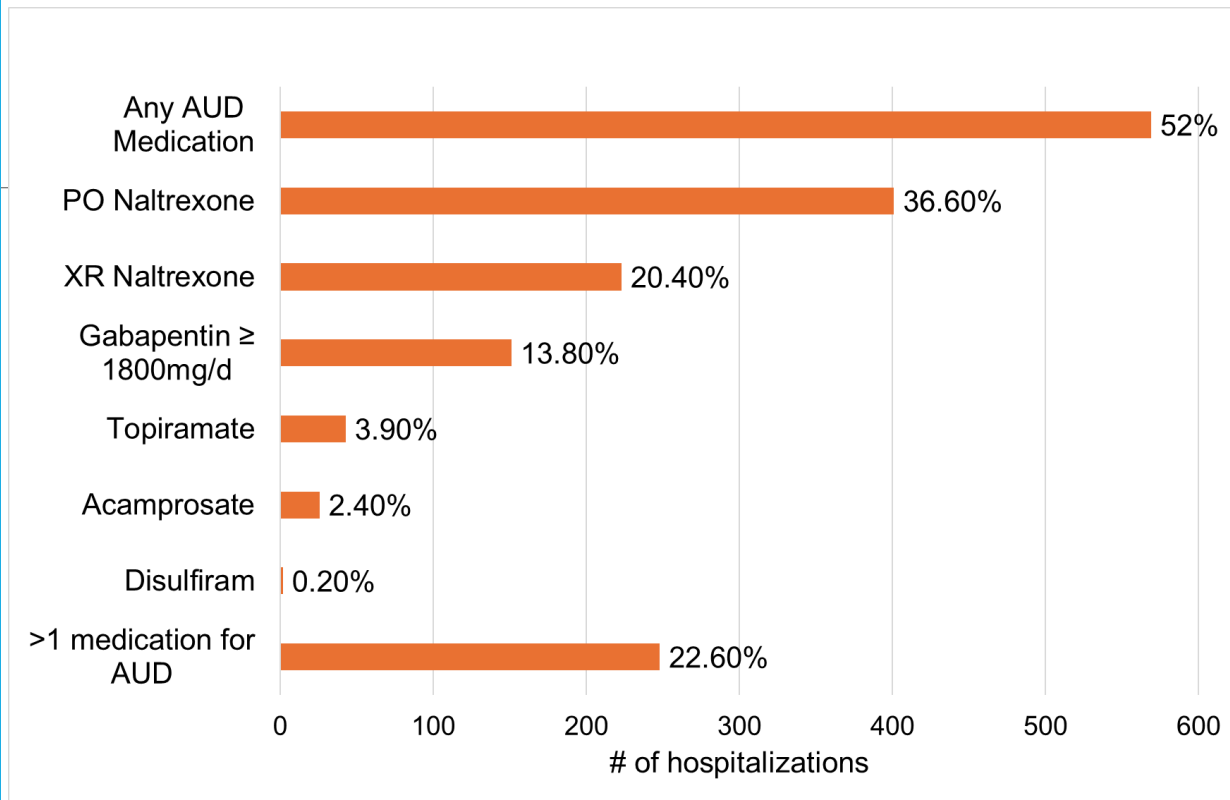
Results: AUD Medications Prescribed for Hospitalizations seen by LVN



Results: AUD Medications Prescribed for Hospitalizations Seen by LVN



Results: AUD Medications Prescribed for Hospitalizations seen by LVN



Limitations

- Limited post-hospital follow up data on medication, linkage, AUD- and health-related outcomes
- Using ICD-10 codes to capture AUD diagnosis may underestimate the sample
- Some prescriptions for medications were likely continuation (not initiation)
- Our hospital has higher rates of prescribing MAUD
 - Possible cross-over effects of a robust addiction consult team and accessible hospital-wide medication protocol
- Relied on a medication algorithm that has not been validated in a hospitalized sample

Conclusions



High rates of MAUD prescriptions among hospitalizations with AUD seen by an LVN



An LVN model can bolster MAUD initiation



Nurses can increase the impact of addiction medicine interventions



We need to understand linkage and ongoing treatment for people started on MAUD during hospitalization



Ongoing efforts can optimize the LVN role in the setting of complex co-occurring illnesses

Thank you!



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