Hospital discharge decision making for patients with substance use disorders and serious infections

What's the evidence?



A Harm Reduction Approach Can Improve Quality of Care

 Meet people where they are at: some patients may want their infection treated, but may not want to stop using drugs.

Inpatient options

Prolonged hospitalizations for 4-6 weeks are often recommended due to limitations, barriers, stigma, or other reasons.

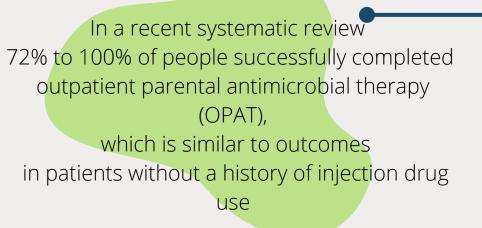
Challenges: Isolation, retaining employment, financial stress, family responsibilities, stigma

Rates of in-hospital drug use can be up to 40%

Less likely to complete prolonged course of antibiotics if no other options offered.

40% Drug use in hospital is common

Outpatient options



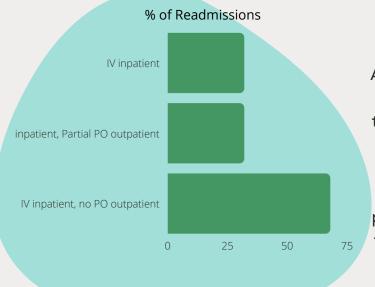
Misuse of PICC lines are

uncommon

0-2% of cases in literature

2%

Other options



Offer oral antibiotics

A single site study showed that giving SOME oral (PO) antibiotics is better than none at all if patients leave early

A 2021 systematic review of prospective, controlled trials showed that stepping down to PO antibiotics is effective in certain patients

Off label IV antibiotics

Long acting IV antibiotics are approved for skin & soft tissue infections. Off-label use for endocarditis and osteomyelitis has been described, though more studies are needed. A randomized trial of n=80 patients with osteomyelitis showed that 2 doses of a long acting IV antibiotic was effective. Here's what we know from one case series of n=32 people who use drugs with serious *Staphylococcus aureus* infections:

- 56% clinical response
- 31% lost to follow up
- Average cost/dose ~ \$4,000

References

Lennox et al IJDP 2021 2) McNeil R, Soc Sci Med 2014 3) Fanucchi et al J Subst Abuse Treat 2018
Suzuki et al OFID 2018 5) Fanucchi et al CID 2020 6) Marks LR et al CID 2019 7) Wald-Dickler et al Am J Med 2021
Rappo OFID 2018 9)Bryson-Cahn 2019

Antimicrobial Discharge Considerations

Patient goals and preferences

 Understands risks/benefits of options (see conversation guide)

Infection type

• Antimicrobial treatment duration and options

Antimicrobial administration and setting Phone, insurance, transportation, environment

Substance use history

 Should not necessarily exclude someone from being discharged with PICC

Discharge needs

Nursing or other services needed

Access to outpatient care

(PCP, mental health, ID, substance use)



Prior to discharge, discuss:

- Overdose prevention
 - Prescribe naloxone

Infection prevention

- Safer use
- Vaccinations
- STD screening
- Pre-exposure prophylaxis for HIV
- TB screening
- *Referral for viral hepatitis care*

References

Sikka et al, BMJ 2021 Thakarar et al, PMJ 2016

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