# Enhancing Infection and Overdose Prevention for Persons with Injection Drug Use-Related Infections: **Evaluation of an Inpatient Quality Improvement Program**



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### Background

- Hospitalizations for injection drug use-related infections (IDU-I) are increasing in North Carolina.
- Many IDU-I, such as endocarditis, bone, joint, and spine infections, require long antimicrobial courses and extended inpatient stays.
- **Prolonged hospitalizations are opportunities to engage** patients in overdose and infection prevention.
- We aimed to:
- Pilot an inpatient quality improvement program
- Provide interventions to enhance patient care for drug-related infections

### **Setting:**

University of North Carolina (UNC) Hospital, a large tertiary academic medical center in Chapel Hill, NC

### **Population:**

- Inpatients on the infectious diseases or pulmonary teams with IDU-I
- Suspected to have injected drugs over the past year, or felt to benefit from drugrelated infection prevention and overdose services

### Intervention:

- A checklist of recommendations was provided to the care teams (**Figure 1**)
- After review of the medical record, our team made interventions on the appropriate services
- Provision of these services during a 9-week period was reviewed

- 70% female

### **Methods**

## **Figure 1. Intervention Checklist**

### 6 Bed Tower Quality Improvement Project

Patient Name: Patient MRN:

Please send the following tests:

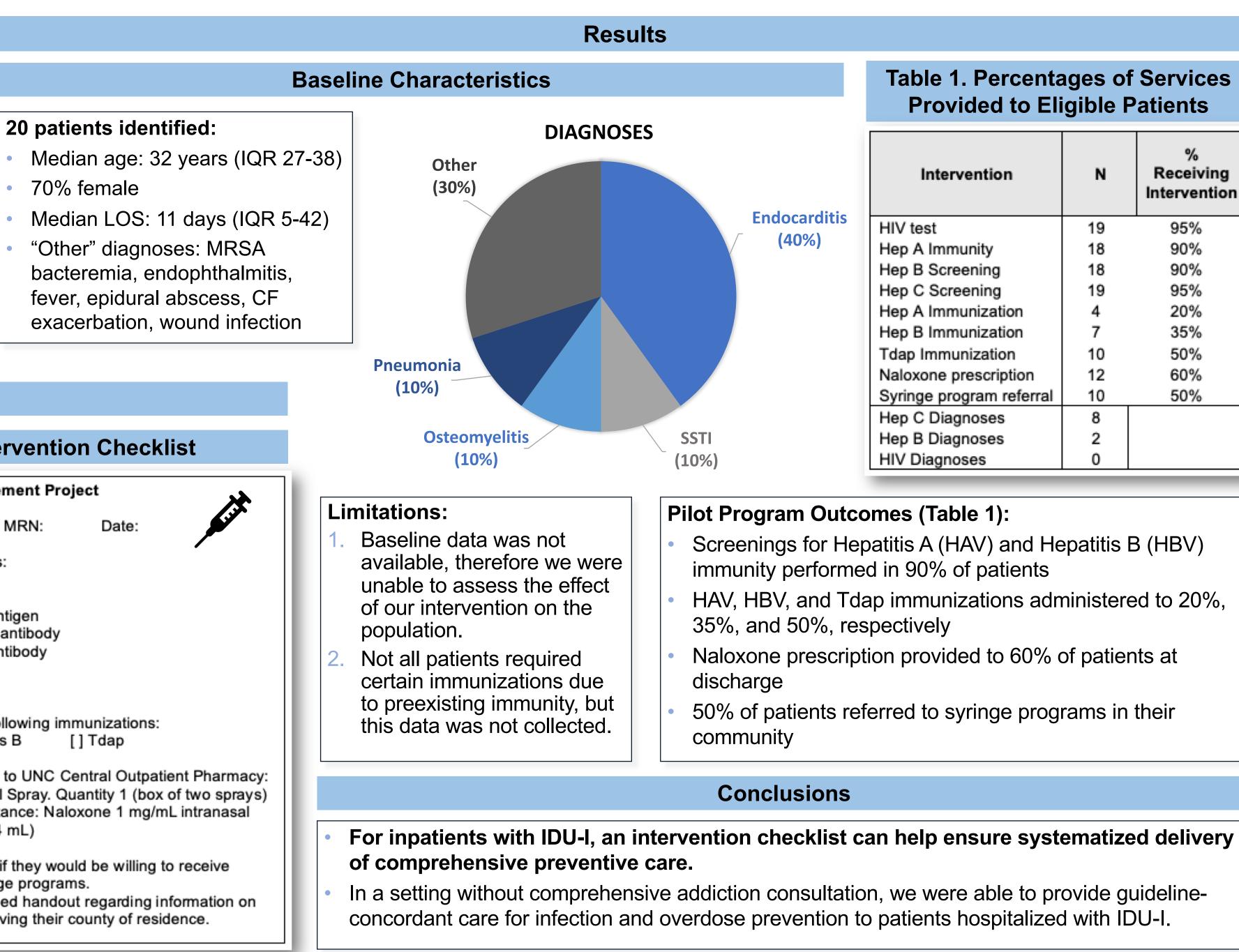
- [] HIV antigen/antibody
- [] Hepatitis A IgG
- [] Hepatitis B surface antigen
- [] Hepatitis B core total antibody
- [] Hepatitis B surface antibody
- [] Hepatitis C antibody
- [] Hepatitis C RNA

Consider offering patient the following immunizations: Hepatitis B [] Hepatitis A [] Tdap

Please prescribe for discharge to UNC Central Outpatient Pharmacy: [] Narcan 4mg/actuation Nasal Spray. Quantity 1 (box of two sprays) [] Uninsured/ Pharmacy Assistance: Naloxone 1 mg/mL intranasal solution (Dose 2 mL, quantity 4 mL)

[] Consider asking the patient if they would be willing to receive information on syringe exchange programs. If so, please provide the attached handout regarding information on syringe exchange program serving their county of residence.

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### Table 1. Percentages of Services **Provided to Eligible Patients**

ervention	N	% Receiving Intervention
	19	95%
nmunity	18	90%
creening	18	90%
creening	19	95%
nmunization	4	20%
nmunization	7	35%
nunization	10	50%
e prescription	12	60%
program referral	10	50%
iagnoses	8	
agnoses	2	
noses	0	

Screenings for Hepatitis A (HAV) and Hepatitis B (HBV)

HAV, HBV, and Tdap immunizations administered to 20%,