

## BACKGROUND

- Healthcare systems seeking to implement routine HIV testing must develop complementary strategies across care settings
- Many patients who are hospitalized arrive via the Emergency Department (ED) where they may have been offered HIV testing
- The yield of reoffering HIV testing to hospitalized patients who declined testing in the ED is unknown

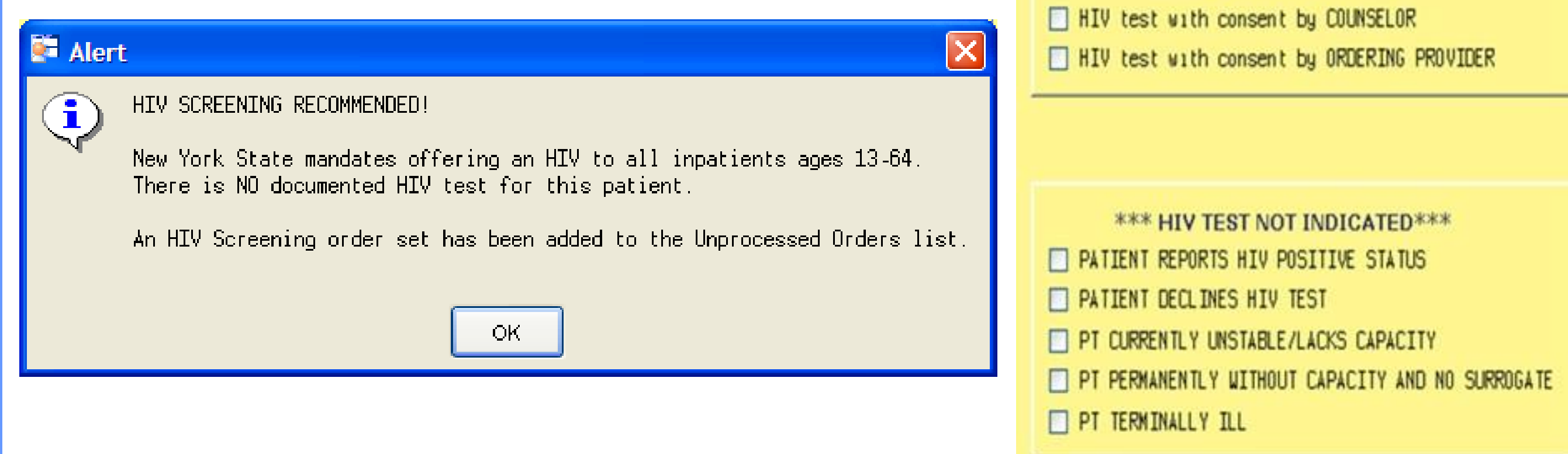
## OBJECTIVE

- To determine whether an intervention to increase HIV testing among hospitalized patients with unknown HIV status was associated with an increase in testing specifically among patients who declined a test in the ED

## METHODS

- SETTING:** Urban, academic, tertiary care hospital in a region of high HIV prevalence
- DESIGN:** Pre-Post
- PATIENTS:** Unique patients 21-64 years old who:
  - Had no prior HIV test in the affiliated healthcare system
  - Declined HIV testing in the ED
  - Were hospitalized from the ED to non-obstetric services in the 8 week periods pre- and post implementation of the intervention
- HIV TESTING PROCEDURES:**
  - ED:** Opt-in offer by ED nurse or HIV counselor with documentation of offer, consent/decline in EMR
  - Inpatient:**
    - Pre-intervention:* Opt-in offer by provider or HIV counselor. Documentation of offer, consent/decline not routinely captured
    - Post-intervention:* Electronic medical record (EMR) prompt and order-set appearing to providers placing EMR orders on hospitalized patients who had no documented HIV test (Fig 1)

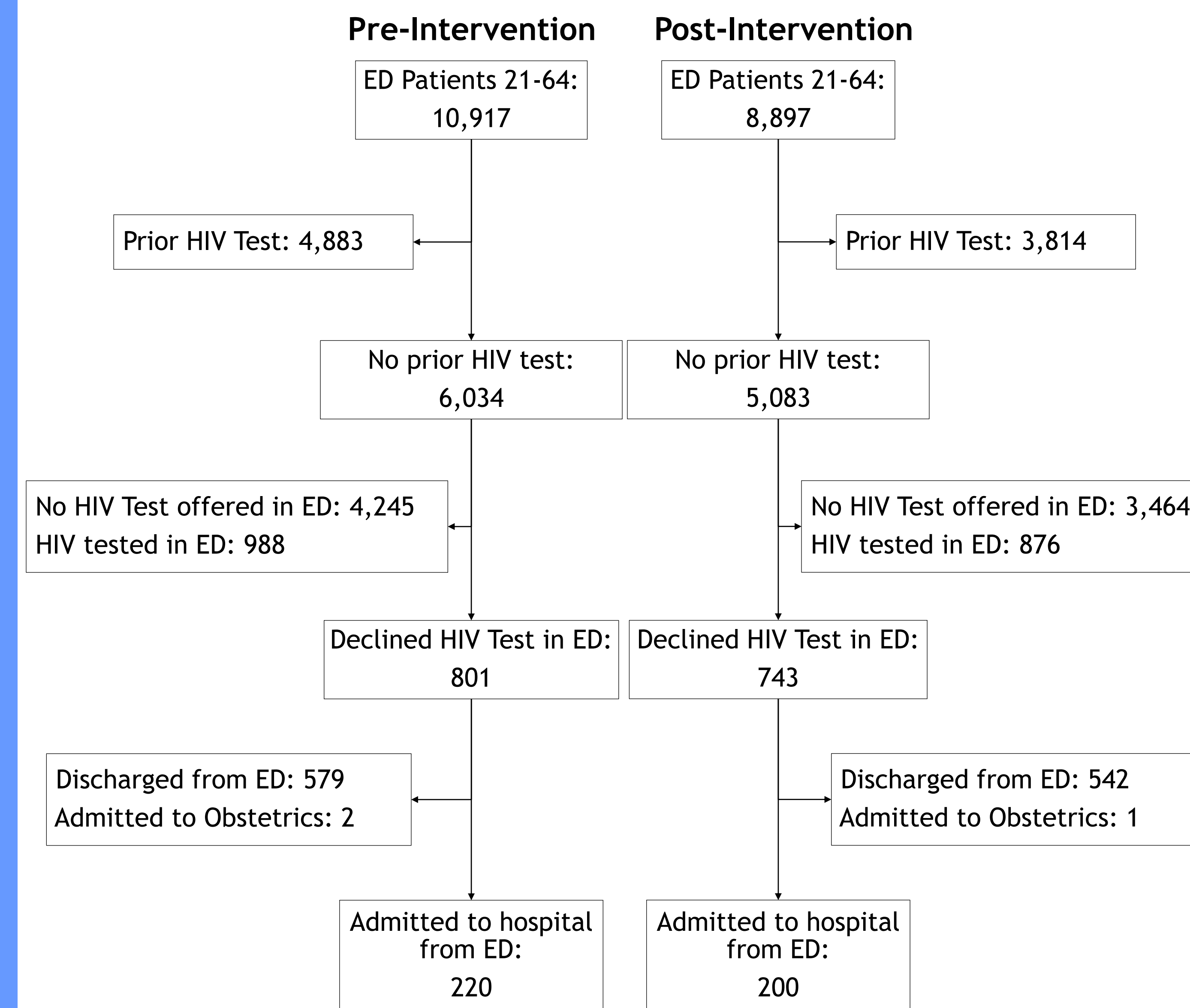
Figure 1. Inpatient EMR prompt and order-set



- OUTCOME:** Performance of HIV test prior to hospital discharge
- DATA SOURCE:** EMR
- ANALYSIS:** Patient characteristics pre- and post-intervention compared using Chi-squared test and Wilcoxon rank-sum test. Proportions of patients with HIV test performed prior to discharge compared using Chi-squared test

## RESULTS

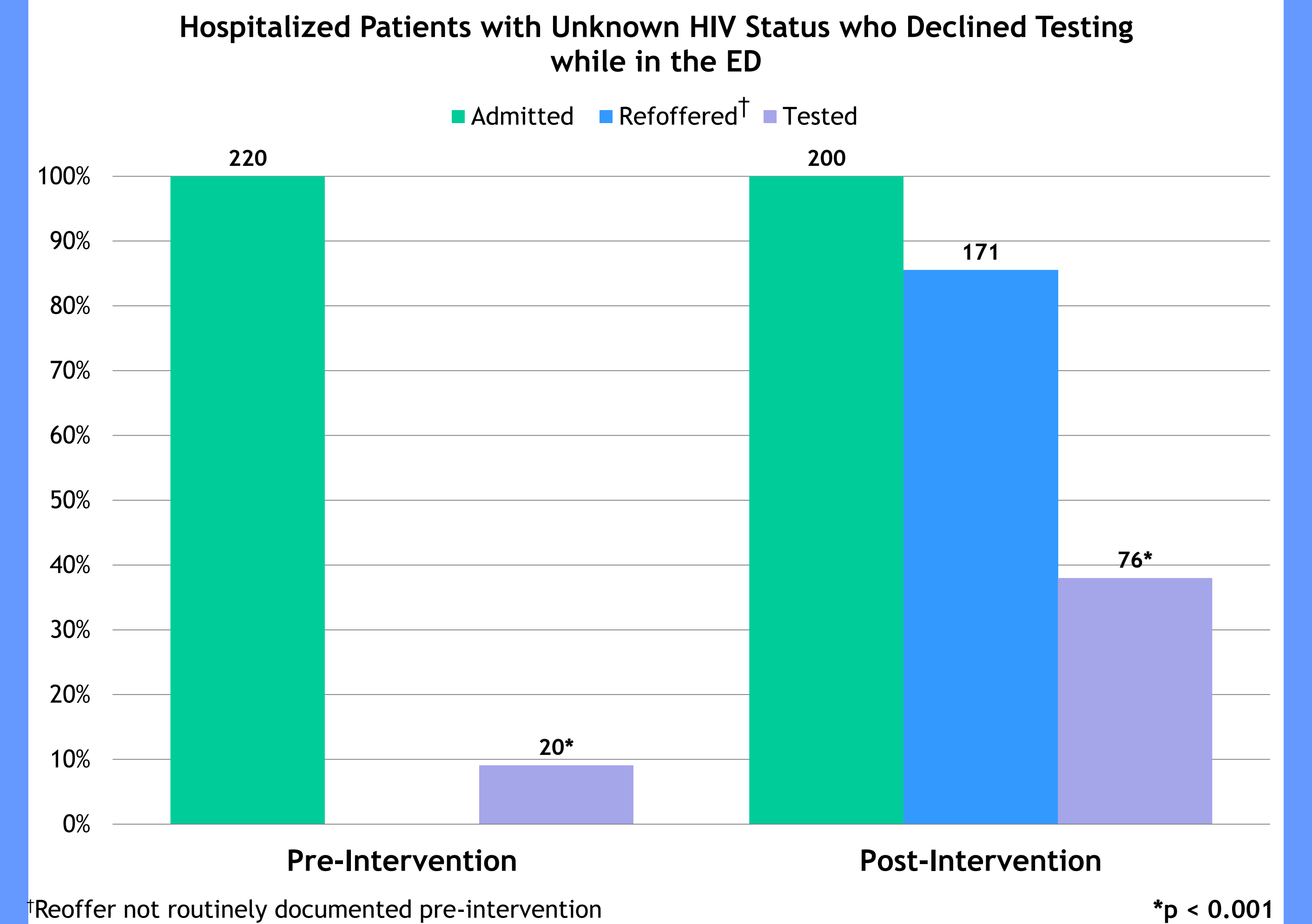
Figure 2. Pre- and Post-Intervention Cohorts



Characteristic	Pre-Intervention (N=220)		Post-Intervention (N=200)		p value
	N	%	N	%	
<b>Sex</b>					0.64
Female	116	53	110	55	
<b>Age (median years, IQR)</b>	52	41-57	52	45-58	0.43
<b>Race/ethnicity</b>					0.16
Hispanic	92	42	87	44	
Black, non-Hispanic	81	37	74	37	
White, non-Hispanic	31	14	16	8	
Asian, non-Hispanic	2	1	6	3	
Other	9	4	14	7	
Unknown/Missing	5	2	3	2	
<b>Preferred Language</b>					0.42
English	184	84	172	86	
Spanish	33	15	23	12	
Other	3	1	5	3	
<b>Insurance</b>					0.77
Public	153	70	133	67	
Private	60	27	61	31	
Uninsured	7	3	6	3	
<b>Admission Service</b>					0.32
Medicine	168	76	152	76	
Surgery	36	16	40	20	
Neurology	8	4	2	1	
Psychiatry	5	2	5	3	
Gynecology	3	1	1	1	
<b>Inpatient length of stay (median days, IQR)</b>	2	0-6	2	0-5	0.81

## RESULTS (continued)

Figure 3.



Reoffer not routinely documented pre-intervention

\*p < 0.001

## LIMITATIONS

- Observational design
- Limited sample size
- Substantial resources required to develop EMR-based intervention as well as support HIV counselors
- Findings may not be generalizable to non-hospitalized patients or patients who decline HIV testing in other care settings

## CONCLUSIONS

- HIV testing increased among hospitalized patients who declined a test in the ED after implementation of an EMR-based intervention
- A substantial proportion of patients who declined testing in the ED ultimately consented to a test after it was reoffered during hospitalization

## IMPLICATIONS

- Decision to undergo HIV testing is a dynamic process and testing should be reoffered to patients who previously declined
- EMR-resources may be an effective tool for implementing expanded HIV testing

## CONTACT

ufelsen@montefiore.org

## FUNDING

This study was supported in part by the New York City Department of Health and Mental Hygiene through a contract with Public Health Solutions (13-SLC-165)