Expanding Inpatient HIV Testing with Simple Testing Prompts

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BACKGROUND

- The CDC estimates that over 1.1 million Americans are living with HIV and, of those, 15% are unaware of their HIV-positive status.
- According to the CDC, 30% of the newly diagnosed cases of HIV was contracted from undiagnosed people
- Identifying HIV positive consumers is essential for linking them to care and preventing the transmission of HIV.
- In 2014 Electronic health record (EHR) systems was implemented in many hospitals nationwide and in 2015 CMS expanded Medicare coverage to cover annual HIV screenings.
- Despite these developments, HIV testing in inpatient settings is still limited
- This study was conducted in New Jersey at Jersey City Medical Center (JCMC) of RWJBarnabas Health. JCMC is the largest healthcare provider in Hudson County.
- It was led by The Center for Comprehensive Care, a Ryan White clinic of JCMC serving over 1,000 consumers annually.

OBJECTIVE

The objective of this study is to expand HIV testing in an inpatient setting using a simple EHR modification in the form of testing prompts.

Jersey City Medical Center | RWJBarnabas HEALTH
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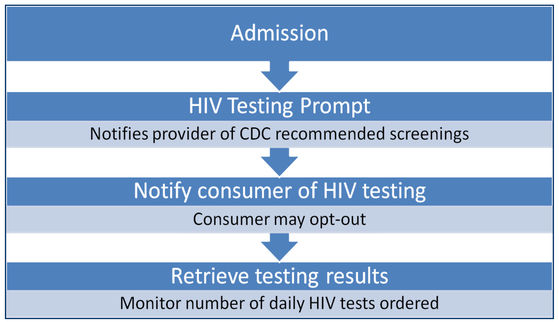
METHODS

Testing Prompt:

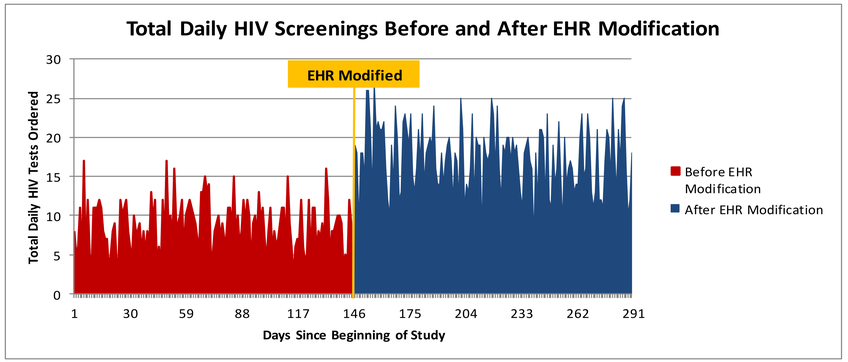
☐ **Short Set - CDC Recommended Screenings**
JCMC is following the CDC recommendations for routine screenings
JCMC is routinely screening for HIV, at least annually, all inpatients equal to or greater than 18 years of age.
The patient must be informed the screening is being done and has the right to decline/opt out of the testing.

Workflow:



- **Baseline data**: Total daily HIV screenings were recorded 1/1/16 – 5/24/16, before EHR modification (n=145)
- EHR modification was completed on 5/25/16 – tests performed on this day were excluded from analysis
- **After EHR modification**: Total daily HIV screenings were recorded for an additional consecutive 145 days (n=145)

RESULTS



- Before EHR modification JCMC inpatient units ordered an average of 8.53 (*SD*=3.25) HIV screenings per day.
- After EHR modification daily orders for HIV screenings increased twofold (M=17.39, SD=4.26), $t(288) = 19.90$, $p < .001$.
- Before EHR modification, JCMC tested 1,237 consumers.
- After EHR modification, JCMC tested 2,521 consumers.
- A total of 86 HIV-positive consumers were identified and 93% were linked to care.

CONCLUSIONS

- Adding HIV testing prompts to our EHR system was an effective method to increase the daily average of HIV screenings at JCMC inpatient units.
- There was an immediate increase in HIV screenings after modifying the EHR system.
- JCMC plans to implement a fully automatic workflow this year.

Also presented at : shm Society of Hospital Medicine | VITAL2017 Connect. Inspire. Lead. | SAEM Society for Academic Emergency Medicine