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Introduction:



Linkage to care defined as:

- persons seen by physician within a month from diagnosis or
- one VL or one CD4 count performed within a month from diagnosis¹
- Delayed linkage to care is a major barrier to "treatment as prevention". It contributes to less retention in care, decreased rates of viral suppression, increased HIV transmission ^{2,3}.
- In 2017 CDC reported that 78% of persons diagnosed with HIV were linked to care within 30 days; the national goal for 2020 is 85%.
- To improve linkage to care at Ryan White clinic in Pittsburgh a direct phone line was established to facilitate an appointment for newly diagnosed patients. Only one call was received within a 12 month period.
- We assessed barriers to rapid linkage to care through chart review of the patients newly-diagnosed with HIV, and implemented interventions to expedite appointment scheduling.

Methods:

- Retrospective chart review of patients newly-diagnosed and established between January, 2018 – October, 2019 including HIV infection status and linkage to care parameters.
- **Quality improvement interventions being:**
- 1. Providing a rapid referral phone number ("hot line") with HIV antibody assay results within our EMR

Component	Value
HIV 1 Antibody	Reactive 📍
HIV-1 Antigen (P24), Qual.	Non reactive
HIV 2 Antibody	Non reactive
HIV ASSAY COMMENT For any questions regarding interpretation	on
of these results, please comphysician on call. They may at (412)647-7228.	ntact the HIV y be reached
For patients newly diagnose call (412)647-1307 M-F 8:30 appointment within 24 hours clinic.	d with HIV, please am-5pm for an at the PACT

Result Specimen Action List

HIV Assay Comment For patients newly diagnosed with HIV, please call (412)647-1307 M-F 8:30am-5pm for an appointment within 24 hours at the PACT clinic. Date/Time December 26, 2019 11:04 AM

- Contributor System SUNQUEST
- 2. Changing the algorithm for the central scheduling team so that new patients are connected immediately to a coordinator within the HIV clinic who offers them appointments within 24 hours. If no new patient slots are readily available, the coordinator seeks physician volunteers to see the patient
- Linkage-to-care indicators (kept medical visits, ART prescribed, viral load suppression, retention) and barriers to rapid linkage were reassessed quarterly.

Expediting Linkage to HIV Care by Facilitating Patient Scheduling within a Large Hospital System

Results: Baseline data and demographics

Days from HIV Diagnosis to First PACT Visit: 1/2018 - 10/2019

care

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Patients newly-diagnosed with HIV and established at PACT (n=53)					
Average Age		39.9 years (range 16 - 62 years)			
Gender	Males	45/53 (84.9%)			
	Transgender males to females	1/53 (1.8%)			
Linkage to care	Average time to linkage to care	30 days (range 0 to 294 days)			
	Within 30 days	40/53 (75.5%)			
	Within 90 days	50/53 (94.3%)			
	Referred from the hospital	7/53 (13.2%)			
	Referred from the hospital with AIDS	6/53 (11.3%)			
	Started on ART at first visit	53 (100%)			
	Follow up within 6 weeks	49/53 (92.5%)			
	Follow up within 6 months	53 (100%)			
	No show rate	16.4%			

Viral load after 6 week	s of ART		
Less than 40	29/53 (54.7%)		
Less than 200	41/53 (77.4%)	5.3	
Above 200	3/53 (5.7%)		
Not available	9/53 (16.9%)		

Results: Common barriers to linkage to care



Days before contacting the clinic Time to be seen after clinic contacted

25

Post intervention Results: November 2019 - May 2020

Days from HIV Diagnosis to First PACT Visit: 11/2019 - 5/2020



Discussion:

- ✓ Small sample size

- ✓ Once referred, all patients were seen within 2-4 days
- decline in HIV testing due to COVID-19 epidemic
- decline in number of newly-diagnosed persons

Lessons learned:

Ensuring rapid linkage to care requires commitment at all levels from scheduling team to physicians.

Challenges:

- level is not necessary for referral for HIV care.
- **Improvement needed with transition from inpatient to** outpatient for those newly diagnosed in the hospital.

Bibliography:

- www.cdc.gov
- NEJM. 2009;360:1815-26.
- 2011;365:493-505.





 •	4 newly - diagnosed patients
 •	Average time from diagnosis to initial
	visit - 15.7 (7 - 23) days
 •	4 (100%) - linked to care within 30 days
 •	All started on ART at 1 st visit
 •	All seen for follow up within 30 days
•	Two "hot line" phone calls received

✓ Average time from diagnosis to initial visit decreased by 2 weeks

✓ Unnecessary confirmatory testing in outpatient setting and delayed linkage to care following inpatient diagnosis ✓ Small number of newly-diagnosed patients may be due to:

Educating referring physicians that a confirmatory HIV RNA

Kitahata et al. Effect of early versus deferred antiretroviral therapy for HIV on survival.

Cohen et al. prevention of HIV-1 infection with early antiretroviral therapy. NEJM.