







Improving Chicago's HIV Care Cascade:

Year 1: Scaling up routine HIV testing

Year 2: Exploring new uses for HIV surveillance data

Chicago Site – Project Summary November 19th, 2012

Ron Lubelchek, MD

Associate Medical Director

Ruth M. Rothstein CORE Center

Attending Physician, Division of Infectious Diseases

Stroger Hospital of Cook County

Assistant Professor of Medicine

Rush University Medical Center

Nanette Benbow, MS

Director HIV/STI Surveillance Division Chicago Department of Public Health

Outline

- Year 1: scaling up routine testing
 - Background
 - Aims
 - Methods
 - Results
 - Limitations and conclusions
- Year 2: enhanced use of surveillance data
 - Background
 - Aims/methods
 - Timeline

Background – Year 1

Chicago's HIV care cascade reveals that approximately 21% of PLWHA are unaware of their diagnosis

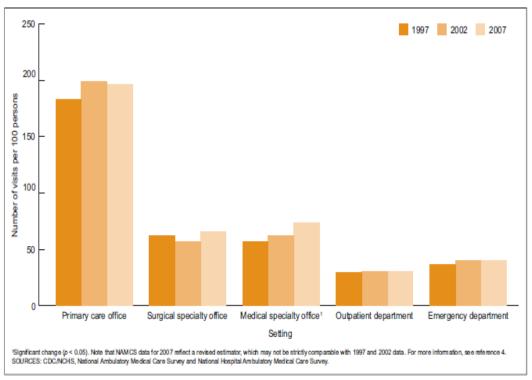


Figure 2. Age-adjusted ambulatory care visit rates by setting: United States, 1997, 2002, and 2007

- CDPH. Healthy Chicago & NHAS report, July, 2012. Accessed Nov. 2012 at http://www.slideshare.net/ChiPublicHealth/healthy-chicago-the-national-hivaids-strategy.
- CDC/DHHS National Ambulatory Medical Care Survey utilization estimates 2007.

Specific Aims – Year 1



- Specific Aim 1: Develop, pilot, and implement an survey to assess provider level knowledge, attitudes, barriers and facilitators to routine HIV testing.
- Specific Aim 2: Implement a project focused on scaling up routine HIV testing in three high risk Cook County Health and Hospital System (CCHHS) out-patient specialty clinics.

Methods

■ Phase 1: Survey development

- Worked with <u>UIC survey research lab</u> to develop instrument to assess clinicians' knowledge, attitudes and beliefs with respect to routine HIV testing
- Also assessed perceived barriers and facilitators to routine HIV testing

Phase 2: Survey implementation

- Administered survey to providers in 3 specialty clinic/areas
 - Dermatology
 - Psychiatry
 - Trauma

- Phase 3: Clinic-specific education sessions
 - Trainings developed for each clinic based on survey results and process evaluations
- Main outcome: HIV testing rates for patients with unknown HIV status who also had blood drawn.

Assess preintervention testing rates in clinics of interest; Jan-Feb, 2012

Process evaluation, focused trainings; May through July



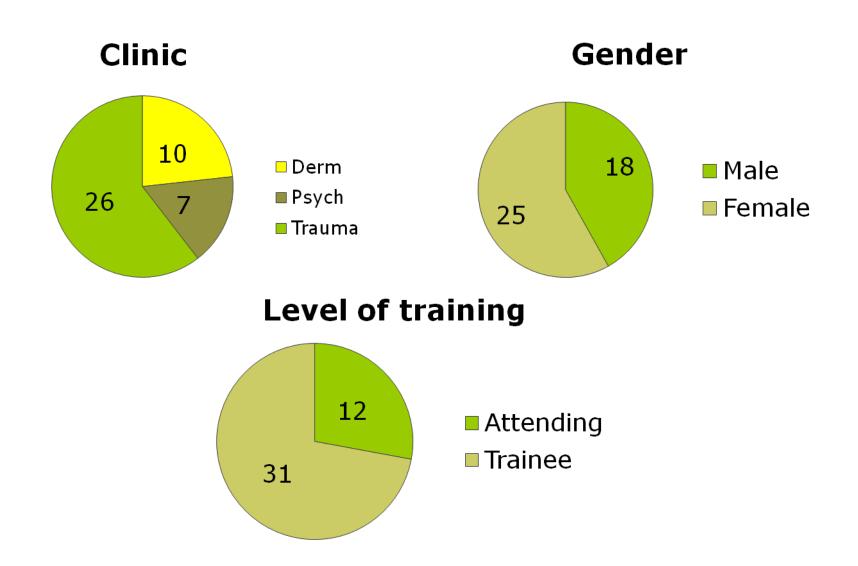






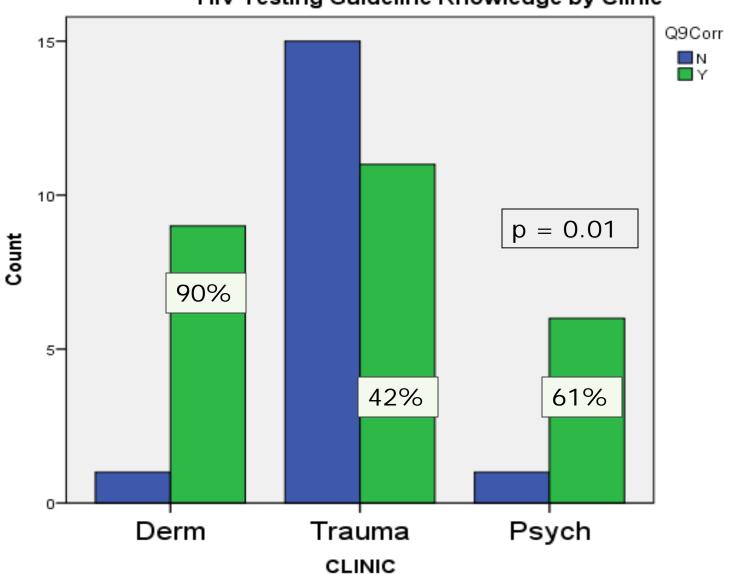
Survey/needs assessment in study clinics; March to May 2012 Post-training observation of testing rates;
Aug-Oct,
2012

Results: survey respondent demographics (N=43)

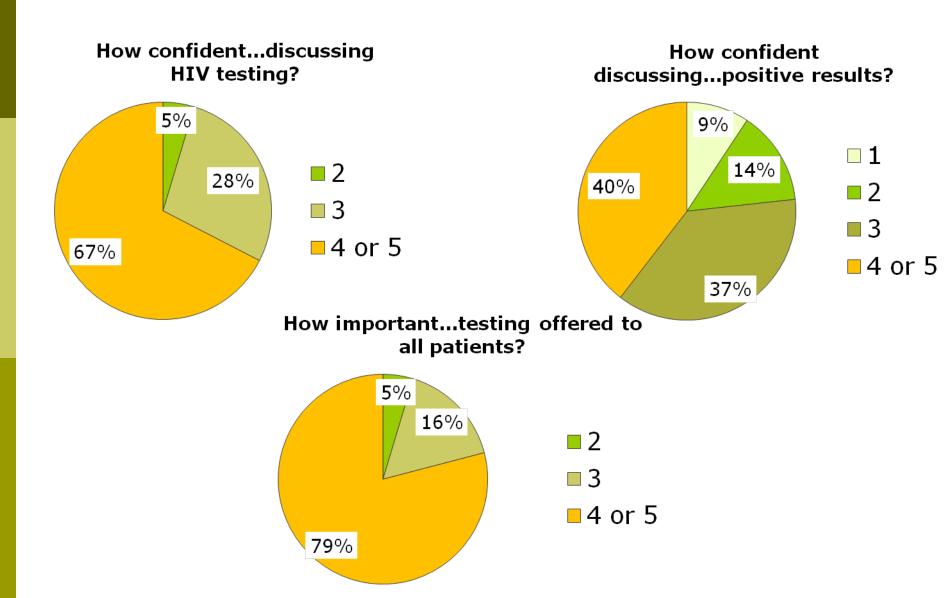


Correct knowledge regarding HIV testing guidelines (overall 65% correct)

HIV Testing Guideline Knowledge by Clinic



Attitudes and beliefs overview:



Survey results: barriers and facilitators						
	Reasons for not testing?	Barriers to testing?	Desired trainings?			
ost frequently ed:	33% I don't know how to arrange follow-up for positive patients	30% I don't have enough time to explain HIV testing to patients	58% more info on HIV test consent rules/policy			
	28% I'm not confident the patient will return for results		58% more info on how to arrange follow up for patients with positive results			

85% -- ranked 1st or

2nd: "I don't know

how to link positive

71% ranked 1st or 2nd: "I don't have

explain HIV testing

patients to care

enough time to

to patients"

83% -- ranked 1st or

2nd: need more info

on how to arrange

follow-up for newly

diagnosed

26% -- ranked 1st or

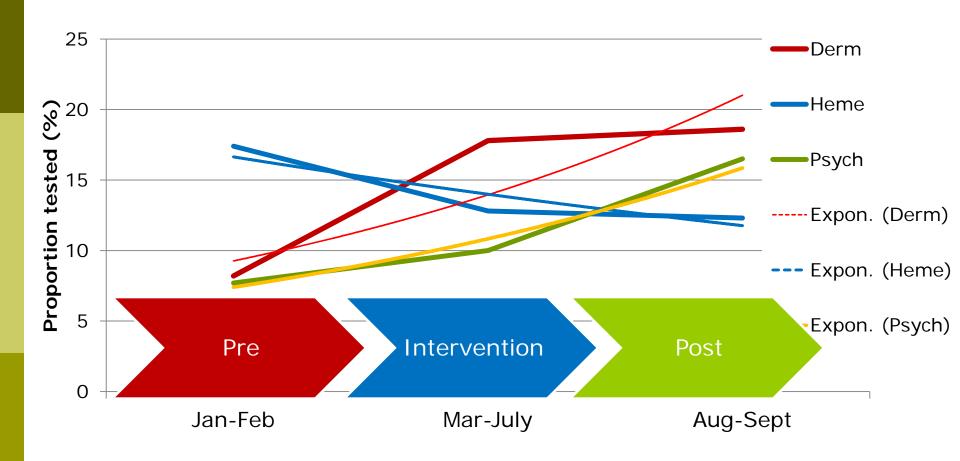
2nd: "I'm confident

return for results".

the patient will

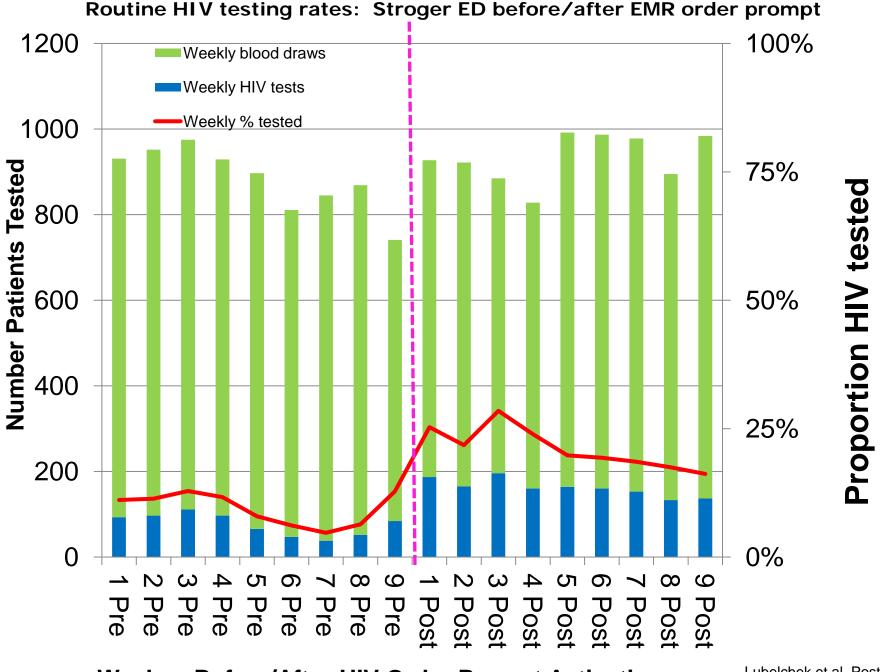
Highest ranked:

Changes in Routine HIV Testing Patterns over Time by Clinic



p < 0.01 for psych vs. heme over time

p < 0.01 for derm vs. heme over time via poisson regression



Week - Before/After HIV Order Prompt Activation

Lubelchek et al. Poster # TUPE734 at 29th IAS, 2012

Demographics of Newly Diagnosed HIV Patients and Linkage to Care Status – Stroger Hospital campus, 01/2012 – 10/2012

	Linke	d to						
	Care		Linke	d to	Not Li			
N=176	< 90	Days	Care		to Car	re e	p-value	
Characteristic	N	%	N	%	N	%		
TOTAL(N = 176)	139	79	146	83	30	17		
Gender								
Male (N = 132)	107	81	114	86	18	14	p = 0.34	
Female (N = 43)	31	72	31	67	12	28		
Transgender (N = 1)	1	100	1	100	0	0		
Race/Ethnicity								
African American (N = 130)	95	73	102	79	28	22		
Hispanic (N = 32)	31	97	31	97	1	3	0.000	
White $(N = 12)$	12	100	12	100	0	0	p = 0.002	
Asian (N = 1)	-	-	0	0	1	100		
Other (N = 1)	1	100	1	100	0	0		
	•		•		-			

Year 1: Limitations/Conclusions

- Trauma clinic decline in testing
 - Day-to-day run by rotating residents
 - Protocol driven
 - They have not yet initiated protocol incorporating routine testing (trauma clinic with least knowledge of testing guidelines)
- Scalability of intervention?
- Suggests that needs assessment followed by focused training (academic detailing model) model can improve rates of routine HIV testing

Year 2: Background

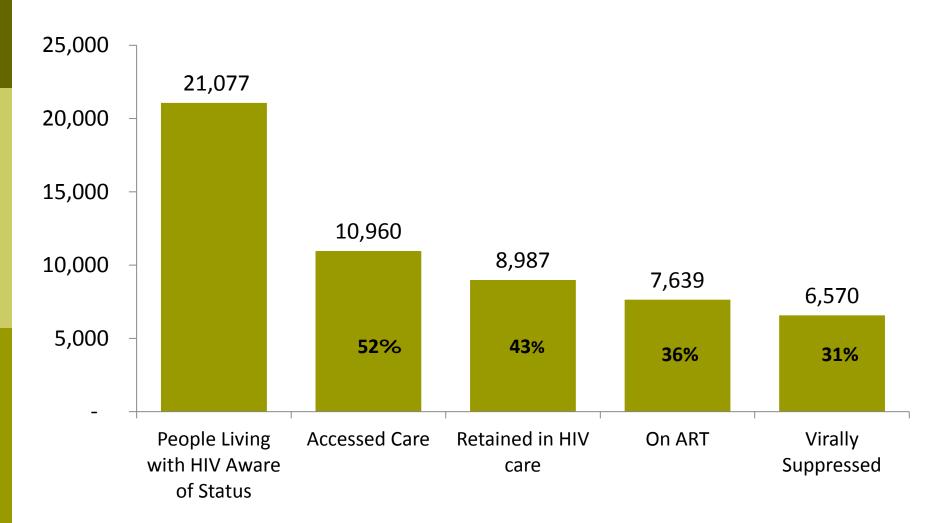
- Increasingly, HIV surveillance data has been used to improve the clinical care of people living with HIV/AIDS
 - e.g. Health information exchange in Louisiana to help identify and link lost-to-care patients
 - San Francisco department of public health tracking linkage to care for newly diagnosed patients
 - NYDHMH use of surveillance data to monitor engagement in care rates
- We believe Chicago-area PLWHA would benefit from enhanced use of HIV surveillance data for improving provision of clinical care

[•] Cole J. 2010 Ryan White Grantee Meeting and 13th Clinical Conference. Washington DC, Aug, 2010.

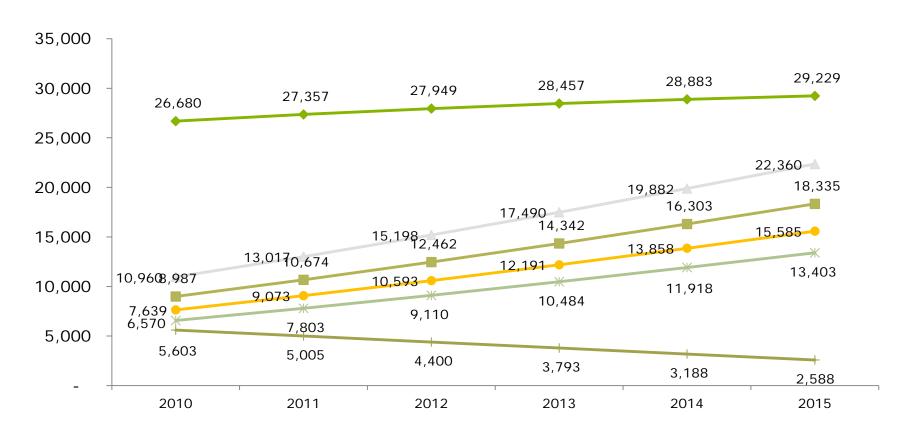
[•] Zetola NM, et al. BMC Public Health 2009; 9: 17-22.

[•] Torian and Wiewel. AIDS Pat Care 2010; 25(2): 79-88.

HIV Continuum of Care Chicago 2010, as of 6/12



Chicago HIV Continuum Goals, as of 6/12

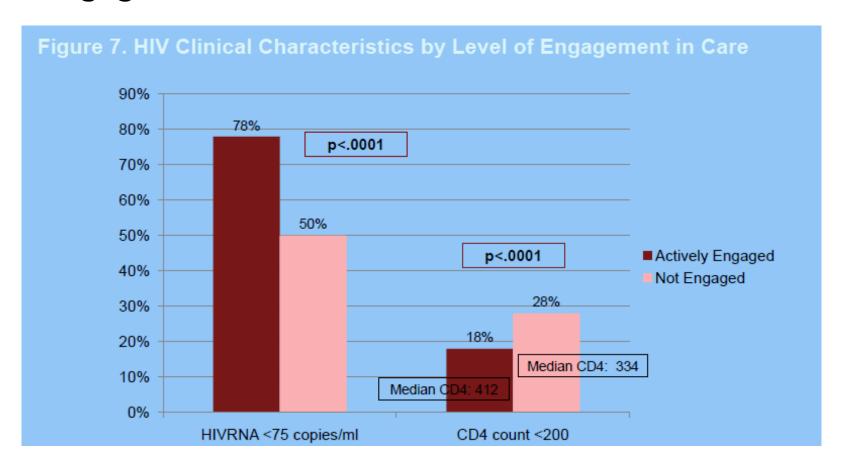


- → Estimated PLWHA in ehars + newly aware
- --- Retained in care (Irene excludes diagnoses in retention estimate)
- # accessing care at least one time in a year (assuming above %)
- On ART***
- Virally suppressed***
- →Unaware of status**

Year 2	Method	Outcome
Aim 1: Additional analysis of CDPH HIV surveillance data	 Further analyze CDPH HIV lab surveillance data Risk factor analylsis 	 Assess changes in linkage to care and engagement in care rates based on varying definitions or parameters of analysis Further clarify risk factors for lack of engagement in care
Aim 2: Asses barriers and develop pilot with partnering clinical provider(s)	 Asses barriers to use of HIV surveillance for clinical purposes: Legal consultation Survey of other DOH Pilot with clinical provider to query HIV surveillance data to help determine which patients lost to care (triage outreach priorities) 	 Outcomes from legal consultation Outcomes from survey of DOH Number of lost-to-care patients included in query to CDPH Number determined to be lost-to-care vs. in care elsewhere

CORE Center: engagement in care

A total of 4810 HIV+ adults were seen at the CORE center in 2010 and 1286 (27%) were not actively engaged in care.



Aim 1: Additional analysis CDPH HIV lab surveillance; Nov-Jan Y2: Timeline

Aim 2: pilot project; clinic querying surveillance database to improve outreach;

Feb to June







Aim 2: assess barriers to expanded use of surveillance data; Nov to Feb

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