


## HIV Screening in the Emergency Department

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### DISCLOSURE OF COMMERCIAL INTEREST

Jeremiah Tilles has no relevant financial relationships or affiliations that have influenced the content of this presentation.




## UC Irvine Medical Center






## UC Irvine Medical Center

Location	Confluence of 5, 22, and 57 Freeways
Beds	406
Admissions	17,732 annual for 2014
Clients:	
Ethnicity	35.8% Hispanic
MediCal	39.4%
Classification	University Hospital




## Expanded HIV Testing at UCI Medical Center

	Period	New Positive per 1,000 screened	Link to Medical Care	Partners Identified & Screened	Link to Prevention Services
Primary Care Clinics	7/1/12-12/31/14	0.8	100%	100%	100%
Hospitalist Service Inpatients	1/1/14-12/31/14	1.7	100%	100%	100%



## Emergency Department

Coverage	24 hrs/day, 7 days per week
Unique patients	24,925 per year
Ethnicity	42.3% Hispanic
Age	≥ 13 yrs
Physicians	19 attendings, 5 fellows, 22 residents, 7 nurse practitioners
Nurses	4 supervisory nurses, 36 nurses the AM/PM shifts, 4 non-shift nurses




## Screening Protocol

**Laboratory Tests**  
 4<sup>th</sup> generation screen; HIV 1/HIV 2 antibody + p24 antigen  
 Confirmation: Multi-spot HIV1/HIV2  
 Viral load: HIV 1 RNA

**Protocol**  
 Policy - opt out testing of all patients having a phlebotomy for other tests  
 Nurse - states policy and initiates order for attending signature on template in EMR  
 Phlebotomy by nurse; sample sent to laboratory by vacuum tube  
 Results of screen test and confirmation test for positives within 60 min.  
**Disclosure**  
 Negative - by attending or resident before patient discharged  
 Positive - LTC paged; attending discloses; LTC initiates linkages

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## Screen + Confirmation +

	June	July	September		October		November
Screen Date	11	1	23	26	6	14	15
HIV Test	+	+	+	+	+	+	+
Confirmation	+	+	+	+	+	+	+

Patients Screened (April 6 - Nov 28)	3,997
Screen + Confirmation +	7
Rate	1.8 per 1,000 screened

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## Screen + Confirmation -

	April			May			June			July			October		
Screen Date	15	18	21	1 a	1 b	9	12	12	28						
HIV Test	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Confirmation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Viral Load	1	-	+	-	-	+	2	+	3						

<sup>1</sup> client discharged from ED with invalid phone number and home address  
<sup>2</sup> client is in prison and refuses to sign consent to allow discussion of health detail  
<sup>3</sup> in process


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## Acute Infection

Screen Date	May 21	June 9	October 12
HIV Test	+	+	+
Confirmation	-	-	-
Viral Load	+	+	+
Age	54	26	46
Ethnicity	Hispanic	Hispanic	Non HSP, white
Presenting Complaint			
Fever		++	
Malaise	++		
Rash	+		
Headache			
Night sweats			
Lymphadenopathy			++
Nausea, vomiting, diarrhea		++	
Other		dizziness	face/neck abscesses

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## NEW HIV POSITIVES

	May	June	July	September		October			Nov	
Screen Date	21	9	11	1	23	26	6	12	14	15
HIV Test	+	+	+	+	+	+	+	+	+	+
Confirmation	-	-	+	+	+	+	+	-	+	+
Viral Load	+	+						+		

Patients Screened (Apr 6 - Nov 28)	3,997
New HIV Positives	10
Rate	2.5 per 1,000 screened

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## OLD HIV POSITIVES

	April				Aug	September			October		
Screen Date	10	11	13	22	9	6	7	26	27	6	12
HIV Test	+	+	+	+	+	+	+	+	+	+	+
Confirmation	+	+	+	+	+	+	+	+	+	+	+

Patients Screened (Apr 6 - Nov 28)	3,997
Old HIV Positives	11
Rate	2.8 per 1,000 screened

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**NEW HIV POSITIVES: LINKAGE TO CARE/PARTNER IDENTITY/PREVENTION SERVICES**

Screen Date	Medical Care	Partner Identification	Prevention Services
May 21	Completed	Completed	Completed
June 9	Completed	Completed	Completed
June 11	1	1	1
July 1	Completed	Completed	Completed
Sept 23	Completed	Completed	Completed
Sept 26	Completed	Completed	Completed
Oct 6	2	2	2
Oct 12	Completed	Completed	Completed
Oct 14	Completed	Completed	Completed
Nov 15	Completed	Completed	Completed

<sup>1</sup> currently wanted by police and in hiding; has called LTC twice  
<sup>2</sup> insisted on leaving ED before test results reported; refuses to return to learn results; refuses to accept phone calls

- Challenges**
- Disclosure of screen result to transient patients
  - Patient refuses to link to OCHCA Partner Services

- Response to Challenges**
1. Use 4<sup>th</sup> Generation Screen with results in less than 60 min if can obtain a designated Architect i-1,000SR Analyzer. UCIMC agrees to purchase the instrument
  2. LTC coordinator befriends patient, gains her trust; partners are identified and screened



**Expanded HIV Screening at UCIMC**

	New Positives per 1,000 screened
CDC: level justifies cost	1.0
Primary Care Clinics	0.8
Hospitalist Inpatients	1.7
Emergency Department	2.5