

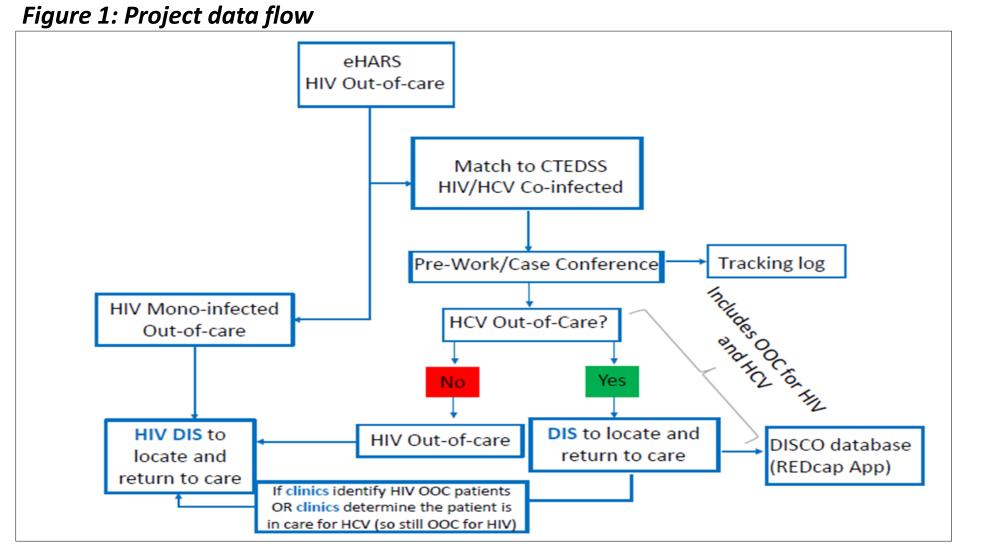
Yale SCHOOL OF MEDICINE

BACKGROUND:

- The WHO has set an HCV elimination goal of curing 80% of chronically infected persons
- Persons with HIV/HCV coinfections are a target population for HCV elimination
- Patients who are out of care (OOC) prevent achievement of this goal
- Data to Care methodology using a health department partnership is an important tool to promote reengagement

METHODS: OOC Lists (based on HIV OOC) are generated using data from two CT surveillance databases, eHARS (HIV) and CTEDSS (HCV). Two OOC cohorts were studied for 3 CT counties (New Haven, Hartford, and Fairfield):

Table 1: Out of care (OOC) case definition criteria 12 Month OOC 18 Month OOC Criteria Alive **CT** Resident HIV Dx Prior to 2018 Lab results in eHARS from 2015-2019 Lab results in eHARS from 2009-2019 No HIV labs between October 2018 and October 2019 No HIV labs between December 2017 and June 2019



- DIS were used to reengage eligible patients as outlined above Key outcomes include: Number successfully contacted by DIS
- **RESULTS:** Number successfully reengaged (made/kept appointment)

Figure 2: Reengagement results for 12 month and 18 month OOC

Reengagement Results

Reengagement Results							
Out of Care	90			100			
DIS Eligible	40			57			
Contact Attempted		38	3		56		
Successfully Contacted			18	21			
Agreed to Visit a Provider			14	18			
Schedule an Appointment			13	17			
Successfully Reengaged	39% success rate* 7		9	43% success rate*			
*Success rates based on successfully reengaged out of successfully contacted							
	12 month OOC patient count 18 month OOC patient count						

Table 2: Out of care assessment and workload analysis results by study group

•	-	, , , ,	•
Result Types	Variables	12 month OOC	18 month OOC
	Non-Baby Boomers	X	X
Who is most likely to be OOC	Detectable HIV VLs	X	X
	Hispanic and Black		X
Workload for Successful	Average days (range)	7 (4-11)	12 (8-18)
Contact	Total Phone Calls	75	74
	Total Field Visits	31	36

SUMMARY:

- A Data to Care approach was successfully used to identify, characterize, and contact HIV/HCV coinfected patients who are HIV OOC
- Reengagement success rates by DIS were small and efforts were labor intensive
- Those most likely to be OOC for HIV were non-baby boomers, persons of color, and those with detectable HIV VLs
- Timeframes used to define HIV OOC provided groups of individuals that are no longer active in the health care system (deceased, lost to clinic, out of state, etc.)
- Innovative reengagement approaches should be developed for these target populations

Efficacy of Using Disease Intervention Specialists (DIS) to Re-engage **Out of Care HIV/HCV Co-Infected Persons into HCV Treatment**

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This Data to Care approach

successfully identified coinfected

out of care patients, provided them

education, and directed them back

to clinical care.



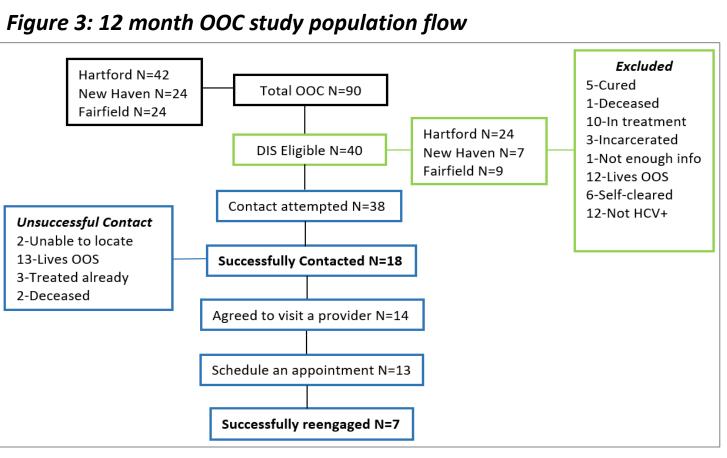
Project App for Android Phones



Project App for iPhones



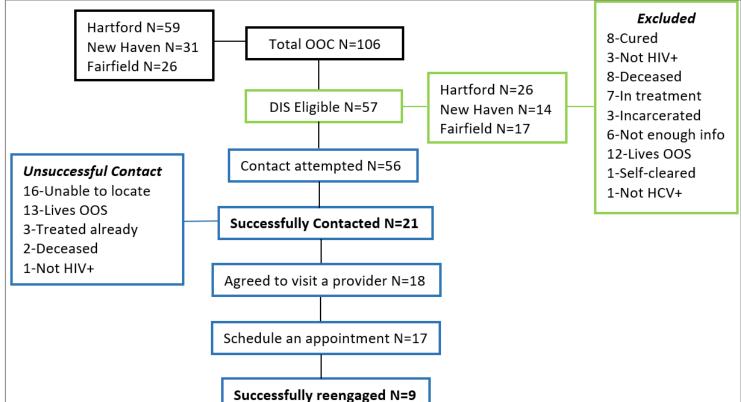
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Birth Cohort

Phone (Total)	45		13		17		
	<i>ge</i> 2-6		3-6		3-8		
	Me	<i>an</i> 4			4	424	
	Mo	<i>de</i> 5			N/A	N/A	
	Medi	<i>an</i> 4		4		3	
		SD 1.24			1.25	2.17	
Field Visits (Total)		15			4	12	
	Range				0-4	19	
	Mean				1.7	3	
Mode		<i>de</i> 0		N/A		1	
Median		<i>an</i> 1		1		1	
SD		SD 1.49		1.70		3.46	
Time Difference Between DIS Initiation and Successful Contact							
County	Range	Mean	Mo	ode	Median	SD	
Hartford	0-21 days	7 days	5 d	lays	5 days	5.8 days	
New Haven	2-21 days	11 days	N	A/A	10 days	7.8 days	
Fairfield	0-7 days	4 days	ys N		5 days	2.7 days	
Counties Combined	0-21 days	7 days	0 d	lays	6 days	6.1 days	

Fiaure 4: 18 month OOC study population flow



Variable	Categories	OOC (N=106)	Not OOC (N=3,434)	X2 p-value	Odds Ratio (95% CI)
Cohort	Baby Boomer	66 (62%)	2,502 (73%)	0.017	0.62 (0.41-0.92)
	Not Baby Boomer	40 (38%)	932 (27%)	0.017	Ref
Gender	Male	73 (69%)	2,420 (70%)	0.72	*
Genuer	Female	33 (31%)	1,014 (30%)	0.72	·
	White	20 (19%)	943 (28%)		ref
Daca/Ethnicity	Black	28 (26%)	1,077 (31%)	0.043	1.23 (0.69-2.19)
Race/Ethnicity	Hispanic	56 (53%)	1,366 (40%)	0.045	1.93 (1.15-3.24)
	Other	2 (2%)	48 (1%)		1.97 (0.45-8.65)
HIV Transmission Mode	Heterosexual Contact	15 (14%)	357 (10%)		
	MSM	9 (8%)	271 (8%)		
	MSM and PWID	4 (4%)	145 (4%)	0.79	*
	PWID	73 (69%)	2,502 (73%)		
	Other/Unknown	5 (5%)	159 (5%)		
HIV Viral Load Level	High (>10,000)	16 (15%)	320 (9%)		1.92 (1.11-3.34)
	Low (200-10,000)	16 (15%)	271 (8%)	0.002	2.27 (1.30-3.95)
	Undetectable (<200)	70 (70%)	2,843 (83%)		ref

18 month Out of Care Tables and Flow Chart

No HIV lab results between Decem 2017 and June 2019

Table 6: 18 month OOC Workload analys

Combined

Communication method

Filone (Total)		21			24	29
Range		<i>e</i> 1-6		2-6		2-9
Mean		ın 3.5			4	4.8
	Моа	<i>le</i> 3			2	3
	Media	ın 3			4.5	3.5
	S	D 1.6			1.5	2.7
Field Visits (Total)	19			10	7	
Range		<i>e</i> 1-6			0-5	1-2
Mean		ın 3.8			1.7	1.17
Mode		<i>le</i> 6			0	1
Median		<i>in</i> 3		1		1
SD		D 1.9		1.8		0.4
Time Difference Between DIS Initiation and Successful Contact						
County	Range	Mean	Mo	ode	Median	SD
Hartford	0-21 days	11 days	6 d	ays	13 days	6.5 days
New Haven	2-81 days	18 days	2 d	ays	7 days	28.3 days
Fairfield	2-28 days	8 days	N	/A	5 days	9 days
Counties	0.81 days	12 4 days	Бd		7 days	16.0 days



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DISCLAIMER: The Department of Public Health Human Investigations Committee approved this research project, which used data obtained from the Department of Public Health. The Department of Public Health does not endorse or assume any responsibility for any analyses, interpretation

12 month Out of Care Tables and **Flow Chart**

to account for reporting lag

or conclusions based on the data. The presenter assumes full responsibility for all such analyses, interpretations and conclusions