Health Department/HIV Clinic Collaboration Improves Re-Engagement in Out of Care Persons

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Philadelphia Department of Public Health
AIDS Activities Coordinating Office
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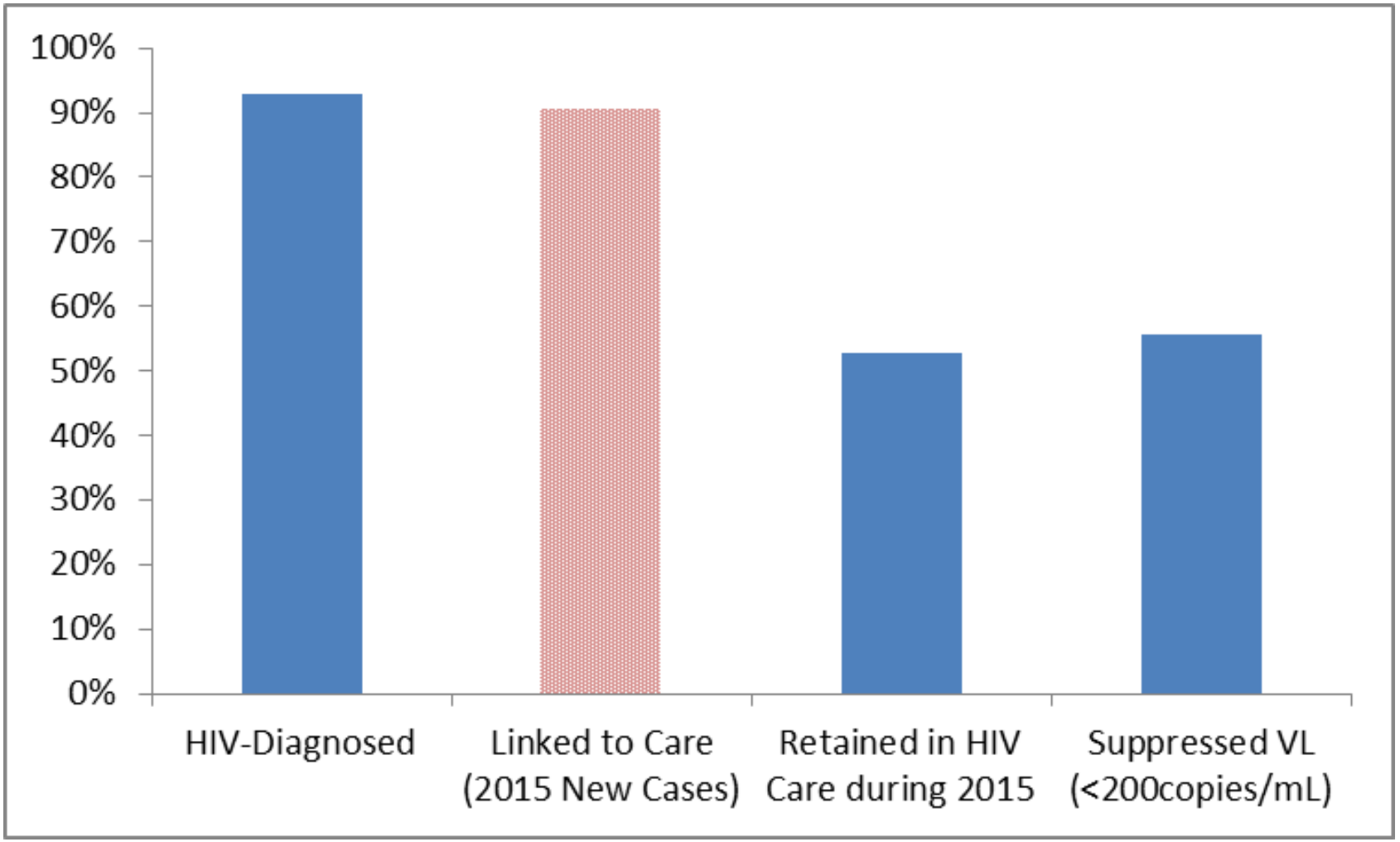
Philadelphia Diagnosis-Based HIV Care Continuum, 2015



Source: Philadelphia Department of Public Health, AIDS Activities Coordinating Office, 2016

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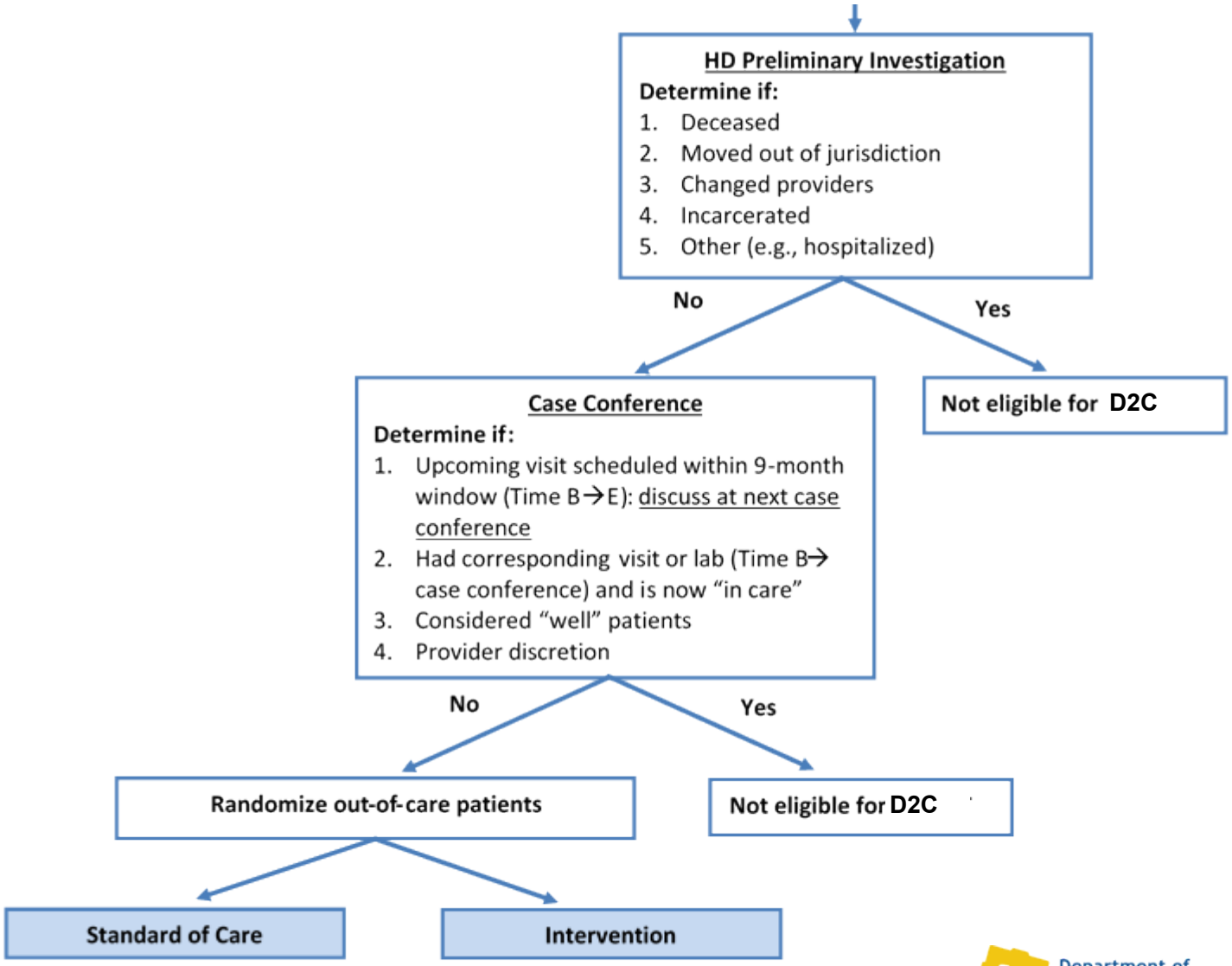
Objectives

- Establish a data-sharing partnership between the Health Department and HIV care clinical providers designed to identify HIV-infected persons who are out-of-care (OOC)
  - Data to Care: Health Department AND Healthcare Provider Model
- Implement a proven intervention to increase the number of HIV-infected out-of-care individuals who:
  - link to an HIV medical facility;
  - remain in HIV medical care;
  - achieve HIV viral load suppression within 12 months; and
  - achieve durable HIV viral load suppression over 18 months

Eligibility

- Philadelphia residents
- Over the age of 18 years old
- Received HIV medical care at a participating facility and then disengage by either of the following definitions:
  - Clinic definition: did not have a visit with a prescribing provider for 6 months.
  - Health department definition: no CD4 or viral load test result reported to health department surveillance for more than 6 months.

Methods



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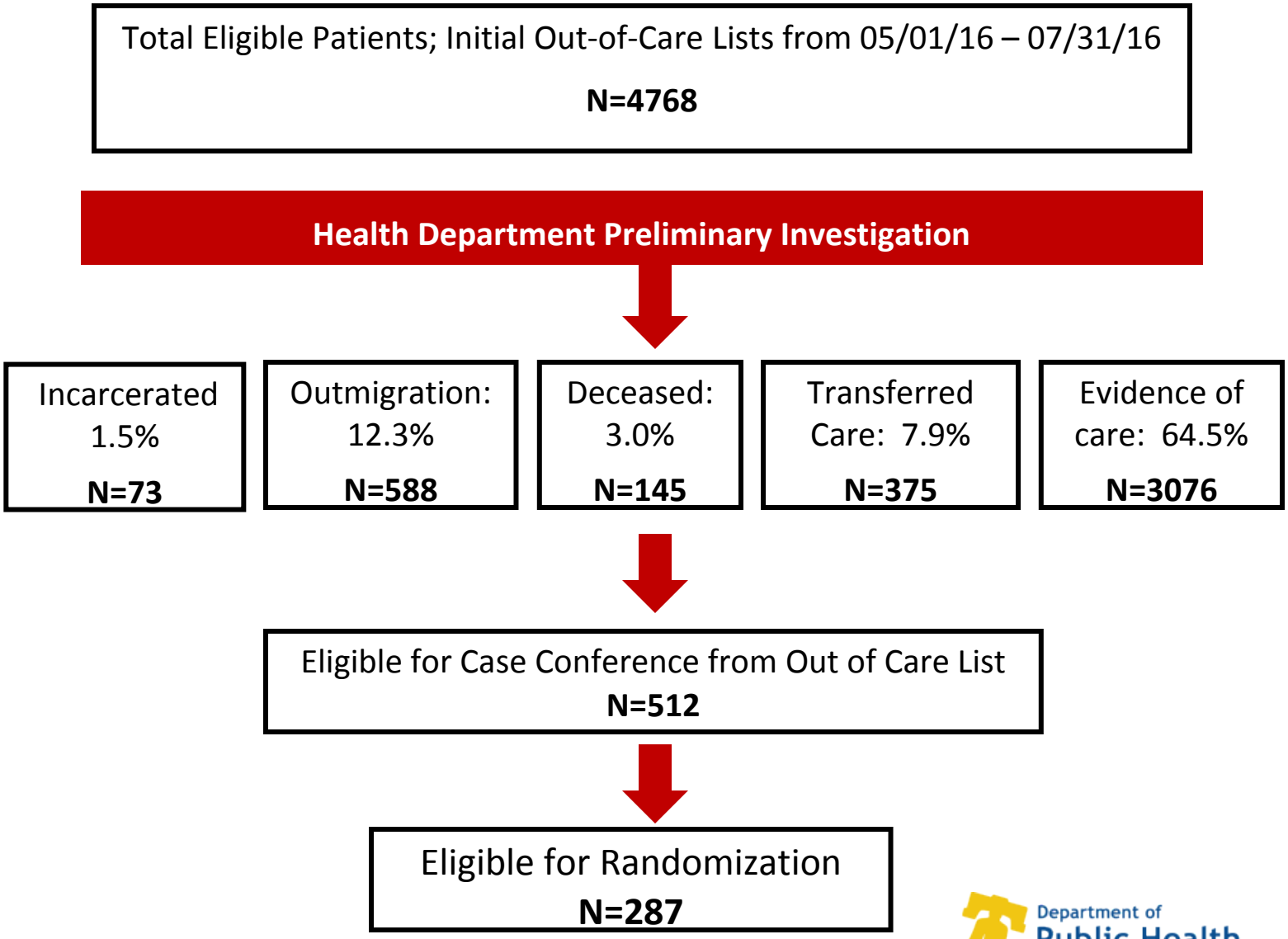
Intervention

- Implemented using Disease Intervention Specialists
- Used a modified strengths based Anti-Retroviral Treatment and Access to Services (ARTAS) model to:
  - Locate and contact patients;
  - Help OOC patients link/re-link to care;
  - Work with patients once they return to care;
  - Offer partner services; and
  - Work with facility staff to help patients transition to care

Results



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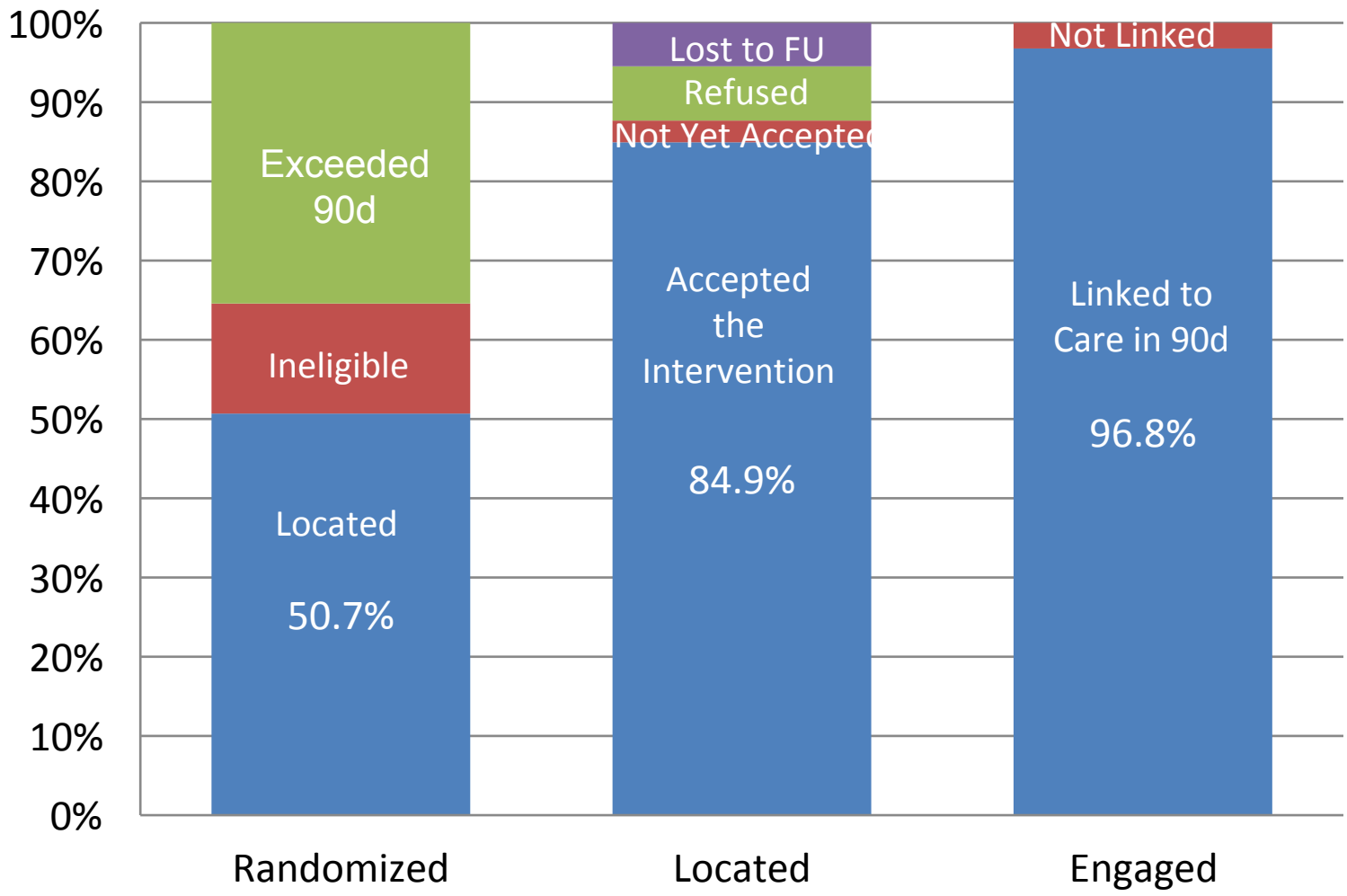
Demographics

Characteristic	Intervention Group N=144 (%)	SOC Group N=143 (%)	P-value
Race			0.2481
NH Black	103 (71.5)	99 (70.2)	
NH White	11 (7.6)	22 (15.6)	
Hispanic, any Race	24 (16.7)	16 (11.4)	
Other	6 (4.2)	4 (2.8)	
Age			0.5755
18-24	8 (5.6)	3 (2.1)	
25-34	37 (25.7)	41 (28.9)	
35-44	38 (26.4)	34 (24.0)	
45-54	41 (28.5)	41 (28.9)	
55+	20 (13.9)	23 (16.2)	
Sex at birth			0.8026
Male	98 (68.1)	94 (66.7)	
Female	46 (31.9)	47 (33.3)	
Mode of Transmission			0.8929
MSM	41 (28.7)	36 (25.5)	
IDU	30 (21.0)	32 (22.7)	
Heterosexual	58 (40.6)	62 (44.0)	
MSM+IDU	9 (6.3)	6 (4.3)	
Other	5 (3.5)	5 (3.6)	

Demographics

Characteristic	Intervention Group N=144 (%)	SOC Group N=143 (%)	P-value
AIDS Status			0.5127
AIDS dx	74 (51.4)	79 (55.2)	
No AIDS dx	70 (48.6)	64 (44.8)	
Time since last visit			0.8278
0-3m ago	2 (1.7)	3 (2.1)	
3-6m ago	9 (7.5)	8 (5.6)	
6-9m ago	34 (28.3)	36 (25.2)	
9m+ ago	75 (62.5)	96 (67.1)	
Time since last lab			0.9945
0-3m ago	2 (1.4)	2 (1.4)	
3-6m ago	7 (4.9)	7 (4.9)	
6-9m ago	35 (24.6)	37 (26.1)	
9m+ ago	98 (69.0)	96 (67.6)	

Intervention Data



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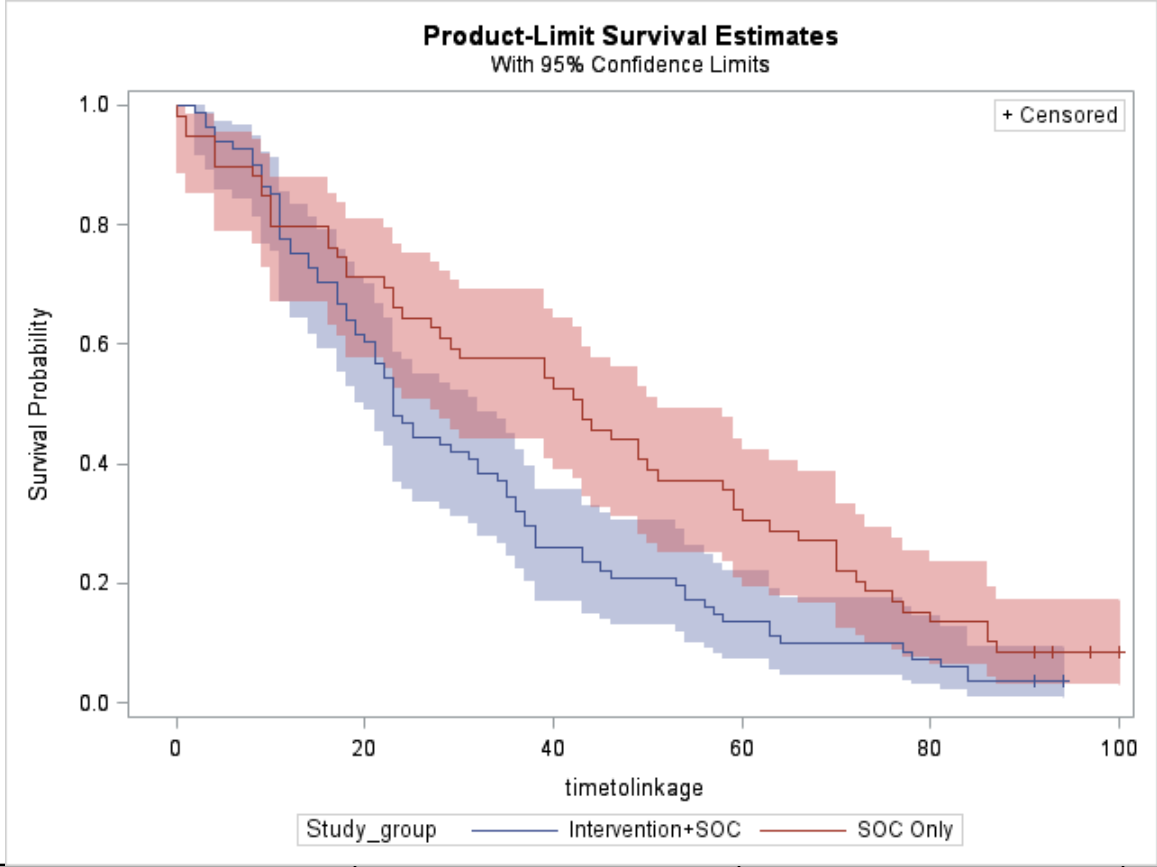
Results



	30 days	60 days	90 days
Intervention Group N=144 (%)	47 (32.64)	69 (47.92)	77 (53.47)
Control Group N=143 (%)	27 (18.88)	42 (29.37)	55 (38.46)
P-value	0.008	0.001	0.011

Results of Cox Proportional Hazard Model

Characteristic	Hazard Ratio	P-value
Race		0.4637
NH White	Ref.	
NH Black	1.39 (0.74-2.58)	
Hispanic, any Race	1.02 (0.47-2.22)	
Other	0.91 (0.26-3.28)	
Age		0.2594
18-24	Ref.	
25-34	1.84 (0.44-7.65)	
35-44	1.63 (0.39-6.80)	
45-54	2.24 (0.54-9.25)	
55+	1.29 (0.30-5.56)	
Sex at birth		0.7971
Male	Ref.	
Female	0.95 (0.66-1.38)	
Mode of Transmission		0.5342
Heterosexual	Ref.	
MSM	1.11 (0.48-1.20)	
IDU	0.76 (0.74-1.68)	
MSM+IDU	1.10 (0.44-2.75)	
Other	0.69 (0.28-1.73)	

Results of Cox Proportional Hazard Model

Characteristic	Hazard Ratio	P-value
AIDS Status		0.1204
No AIDS dx	Ref.	
AIDS dx	1.32 (0.93-1.88)	
Time since last visit		0.6594
0-3m ago	Ref.	
3-6m ago	1.53 (0.44-5.37)	
6-9m ago	1.07 (0.33-3.49)	
9m+ ago	1.05 (0.33-3.33)	
Time since last lab		0.2829
0-3m ago	Ref.	
3-6m ago	2.51 (0.53-11.83)	
6-9m ago	1.27 (0.30-5.29)	
9m+ ago	1.66 (0.41-6.74)	
Facility of origin		0.5577
Facility 1	Ref.	
Facility 2	1.25 (0.83-1.89)	
Facility 3	1.15 (0.76-1.74)	
Assignment		**0.001**
Standard of Care	Ref.	
Intervention + SOC	1.83 (1.29-2.60)	

Data Summary

- Health Department collaboration with clinics reduced OOC lists by 25%
- Mean time to linkage:
  - Intervention + SOC: 29.2 days
  - SOC: 39.0 days
- Likelihood of remaining OOC is lower for those in Intervention + SOC group
- Only significant predictor of linkage to care was study group

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Limitations

- CD4/VL data from surveillance data used as a proxy for in care status during follow up period
  - May overestimate the true linkage rate
- Prescription information not available to track ART usage
- Do not yet have data on long term outcomes including retention in care and viral suppression

Implications

- Health Department collaborations with clinics to identify OOC HIV-infected persons is feasible
- Collaboration can significantly improve the efficiency and effectiveness of interventions to re-engage OOC individuals in HIV care

Future Directions

- Further evaluation is needed to see if these successes translate into improved retention in care and viral suppression
- Expand this project to include greater number and type of clinics

Acknowledgements

PDPH Collaborators

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HIV Clinic Collaborators

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