

Supplemental Table S1. GEE Results for Smoking Behaviors and Medication Use Across Time (N=100)

Parameter	CPD		24-Hour Quit		Medication Use	
	Wald Chi Square	p-value	Wald Chi Square	p-value	Wald Chi Square	p-value
Treatment	5.344	0.021	7.573	0.006	115.668	<0.001
Time	109.080	<0.001	4.268	0.512	13.687	0.018
Treatment by Time	14.393	0.013	2.594	0.762	49.271	<0.001

Note: Bolded values indicate $p < 0.05$. Treatment = AT vs. TAU; CPD = self-reported cigarettes per day.

Supplemental Table S2. GEE Results for Process Measures of Cessation Across Time (N=100)

Parameter	Motivation to Quit		Abstinence Self-Efficacy		Perceived Difficulty of Quit	
	Wald Chi Square	p-value	Wald Chi Square	p-value	Wald Chi Square	p-value
Treatment	5.796	<0.001	8.853	<0.001	9.895	0.002
Time	9.023	0.108	4.278	0.510	5.237	0.388
Treatment * Time	1.140	0.950	10.753	0.057	3.547	0.616

Note: Bolded values indicate $p < 0.05$. Treatment = Algorithm vs. Control; Race = White vs. Non-White; Motivation, Abstinence Self-Efficacy, and Difficulty were assessed across time using a Likert 1-10 rating scale.

Supplemental Table S3. HIV and Other Risk Characteristics (N = 456)

Variable	Total (N=456)	Intervention (n =100)	Clinic (n =356)	p-value
Age at Time of Study, M (SD)	44.4 (10.7)	47.2 (8.1)	43.8 (11.1)	0.012
Age at HIV Diagnosis, M (SD)	39.7 (10.3)	43.0 (8.7)	38.7 (10.5)	<0.001
Sex; Male, %	78.1	69.0	80.6	0.013
Racial Group, %				
White	42.8	25.0	47.8	<0.001
African American	55.5	75.0	50.0	
Other	1.8	0	2.2	
Insurance Type, %				
Private	25.1	20.5	26.1	0.075
Public	35.0	46.2	32.6	
Uninsured	39.9	33.3	41.3	
Currently Taking HIV Medications, %	10.3	9.2	10.5	0.735
Nadir CD4 (cells/ul), M (SD)	283.2 (258.0)	338.8 (268.8)	267.7 (253.1)	0.015
CD4 count (cells/ul), M (SD)	576.8 (338.0)	582.3 (309.9)	575.2(345.9)	0.846
Undetectable VL (<200 c/mL), %	72.5	78.0	71.0	0.165
Depression (PHQ-9), %				
No depression	44.3	35.6	46.1	0.118
Mild	27.3	28.8	26.9	
Moderate	16.6	15.1	16.9	
Moderately Severe	6.2	11.0	5.2	
Severe	5.7	9.6	4.9	
Anxiety (PHQ-9A), %				
No anxiety	65.7	60.0	67.0	0.408
Anxiety symptoms	15.5	16.0	15.4	
Panic Syndrome	18.8	24.0	17.7	
Alcohol (AUDIT-C), %				
No Risk	30.9	44.9	28.1	0.022
Low Risk	38.6	30.4	40.3	
At Risk	30.4	24.6	31.6	
Cocaine, %				
Never	48.1	17.3	54.8	<0.001
Prior	40.8	60.0	36.6	
Current	11.1	22.7	8.6	
Amphetamines, %				

Never	78.7	28.7	78.7	0.999
Prior	18.7	18.7	18.7	
Current	2.6	2.7	2.6	
Opiates, %				0.922
Never	85.0	83.8	85.3	
Prior	12.1	13.5	11.8	
Current	2.9	2.7	2.9	
Marijuana, %				0.666
Never	20.8	17.6	21.5	
Prior	68.6	73.0	67.6	
Current	10.6	9.5	10.9	
IV Drugs, %				0.774
Never	89.8	90.8	89.6	
Prior	9.0	9.2	9.0	
Current	1.1	0	1.5	
History of Medical Conditions, %				0.636 0.089 0.253 0.965 0.406 0.794 0.826 0.471 0.881
Diabetes	9.2	8.0	9.6	
Hypertension	37.7	45.0	35.7	
Dyslipidemia	33.8	29.0	35.1	
Cancer	7.9	8.0	7.9	
Cardiovascular Disease	5.7	4.0	6.2	
Myocardial Infarction	2.6	3.0	2.5	
Asthma	11.6	11.0	11.8	
COPD	6.6	5.0	7.0	
Stroke	2.2	2.0	2.2	

Supplemental Figure S1: CONSORT Diagram

