Supplementary Data

	Α	В	С		
Frailty index variables	HIV - MA - (n = 91)	HIV + MA - (n = 72)	HIV + MA + (n = 43)	р	Pairwise comparisons
BMI	65 (71%)	48 (67%)	31 (72%)	.76	
Total cholesterol	26 (29%)	18 (25%)	8 (20%)	.54	
LDL	60 (67%)	33 (46%)	20 (53%)	.02	A > B
HDL	16 (18%)	21 (29%)	16 (40%)	.02	A < C
Triglycerides	17 (19%)	28 (38%)	17 (43%)	<.01	A < B, C
White blood cell count	11 (12%)	7 (8%)	5 (12%)	.85	
Hemoglobin	13 (15%)	16 (22%)	7 (17%)	.46	
Hepatitis C infection	0 (0%)	11 (15%)	11 (26%)	<.01	A < B < C
C-reactive protein	49 (55%)	41 (67%)	24 (63%)	.30	
AST	16 (18%)	21 (29%)	14 (34%)	.08	
ALT	14 (15%)	29 (40%)	20 (49%)	<.01	A < B, C
Alkaline phosphate	4 (4%)	5 (7%)	4 (10%)	.50	
Platelets	1 (1%)	7 (10%)	3 (7%)	.03	A < B, C
Potassium	1 (1%)	6 (8%)	2 (5%)	.06	
Bilirubin	3 (3%)	7 (10%)	10 (24%)	<.01	A, $B < C$
Unemployment	26 (28%)	48 (64%)	34 (79%)	<.01	A < B < C
Hypertension	13 (14%)	34 (45%)	18 (42%)	<.01	A < B, C
Diabetes	6 (7%)	10 (13%)	4 (9%)	.33	
Smoking	10 (11%)	29 (39%)	24 (56%)	<.01	A < B < C
Hyperlipidemia	16 (17%)	33 (44%)	16 (37%)	<.01	A < B, C
IL-6	46 (50%)	28 (42%)	17 (44%)	.60	
MCP-1	46 (50%)	49 (74%)	33 (85%)	<.01	A < B < C
sCD14	46 (50%)	36 (55%)	27 (69%)	.13	
TNF-a	46 (50%)	36 (55%)	34 (87%)	<.01	A,B < C
D-dimer	46 (50%)	36 (55%)	20 (51%)	.85	
Current MDD	0 (0%)	5 (7%)	8 (19%)	<.01	A < B < C
Lifetime MDD	19 (21%)	34 (45%)	28 (65%)	<.01	A < B < C

SUPPLEMENTARY TABLE S1. PROPORTIONS OF PARTICIPANTS MEETING DEFICIT CRITERIA FOR EACH VARIABLE COMPRISING THE FRAILTY INDEX ACROSS HIV/METHAMPHETAMINE GROUPS

Values are presented as N(%); Groups were compared using chi-square likelihood ratio test, or Fisher's exact test when cell count was less than five; Pairwise comparisons were examined Bonferroni adjustments ($\alpha = 0.05/3 = 0.0167$); *bold* values represent *p*-values that are significant at <0.05.

Consistent with expectations, individuals in HIV+/MA+ and/or HIV+/MA- groups were more likely to meet deficit criteria for most (15 out of 27; 56%) variables compared to the control HIV-/MA- group. Significant stairstep patterns indicating additive effects of HIV and MA on likelihood of meeting deficit criteria were found for hepatitis C infection, unemployment, smoking, current MDD, lifetime MDD, and three inflammatory biomarkers: MCP-1 and TNF-a. While calculating the proportion of total deficits in a frailty index score is clinically useful for understanding total accumulated medical burden and vulnerability, a closer examination of individual components of the frailty index may lead to a greater understanding of specific pathophysiological mechanisms underlying the association between frailty and comorbid HIV and lifetime MA use disorder. Results from the current supplemental analysis support the role of a wide range mechanisms, including coinfections, metabolic factors, behavioral/psychiatric factors, and inflammation.

ALT, alanine transaminase; AST, aspartate transaminase; BMI, body mass index; HDL, high-density lipoprotein; IL-6, interleukin-6; LDL, low-density lipoprotein; MA, methamphetamine; MCP-1, monocyte chemoattractant protein 1; MDD, major depressive disorder; sCD14, soluble CD14; TNF-a, tumor necrosis factor alpha.