

SUPP TABLE 1: Echocardiographic parameters of study participants stratified by HIV and dysfunction status.

Variable Mean (SD)	HIV-uninfected, Dysfunction Negative (n=421)	HIV-uninfected, Dysfunction Positive (n=40)	PLWH, Dysfunction Negative (n=337)	PLWH, Dysfunction Positive (n=51)
Systolic Measures				
<i>Left Ventricular Function</i>				
Ejection Fraction (%)	66.4 (8.7)	66.3 (11.2)	66.5 (8.5)	65.1 (10.2)
End Diastolic Volume (mL)	61.6 (19.5)	56.9 (23.7)	61.6 (19.0)	60.0 (22.9)
End Diastolic Volume Index (mL/m ²)	36.2 (11.1)	33.5 (14.0)	37.0 (11.0)	34.8 (13.9)
End Systolic Volume (mL)	20.6 (8.5)	20.6 (15.4)	20.5 (8.2)	21.1 (13.1)
End Systolic Volume Index (mL/m ²)	12.1 (4.9)	12.1 (9.3)	12.3 (4.8)	12.4 (8.6)
Right Ventricular Function				
TAPSE (cm)	2.2 (0.4)	2.2 (0.4)	2.2 (0.4)	2.2 (0.5)
Diastolic Measures				
<i>Pulse Doppler at Mitral Valve</i>				
E wave velocity (m/s)	0.80 (0.16)	0.67 (0.23) [^]	0.77 (0.15)	0.66 (0.21) [^]
A wave velocity (m/s)	0.52 (0.16)	0.66 (0.22)	0.54 (0.15) [@]	0.63 (0.20)
E wave deceleration time (ms)	195.0 (42.3)	197.8 (53.7)	197.2 (46.6)	188.6 (47.1) [^]
E/A ratio	1.66 (0.6)	1.19 (0.9)	1.52 (0.4) [@]	1.10 (0.3) [^]
Tissue Doppler				
Lateral e' wave (cm/s)	15.00 (2.7)	8.62 (1.57) [^]	14.75 (2.5)	8.92 (2.0) [^]
Septal e' wave (cm/s)	11.16 (2.2)	6.35 (1.3) [^]	10.56 (2.1) [@]	6.66 (1.1) [^]
Average E/e'	6.40 (1.3)	9.42 (3.4) [^]	6.44 (1.4)	9.04 (2.8) [^]
Structural Measures				
<i>Left Chamber Size</i>				
Diastolic diameter (cm)	4.21 (0.51)	4.28 (0.61)	4.19 (0.50)	4.13 (0.59)
LV mass (g)	117.5 (30.2)	141.2 (45.0) [^]	120.1 (33.3) [^]	134.1 (39.7)
Relative Wall Thickness	0.43 (0.13)	0.45 (0.11)	0.44 (0.11)	0.51 (0.19) [#]
Left Atrial Volume Index (mL/m ²)	19.0 (5.6)	24.6 (16.2) [^]	19.7 (12.9)	23.1 (11.3)

Linear Regression (controlled for age, sex, systolic blood pressure and body mass index): [^]p<0.05 vs respective control, [@]p<0.05 vs HIV-uninfected/Dysfunction Negative, [#]p<0.05 vs HIV-uninfected, Dysfunction Positive

SUPP TABLE 2: A. Multivariate and **B.** univariate analysis of factors associated with diastolic dysfunction in PLWH and HIV-uninfected participants.

A

Variable	<u>All Participants</u>	
	OR[CI]	<i>p-value</i>
Multivariate Model		<0.0001
Systolic Blood Pressure (mmHg)	1.03 [1.02-1.04]	<0.0001
HIV Infection	2.71 [1.62-4.55]	<0.0001
Age (yrs)	1.10 [1.07-1.13]	<0.0001
Body Mass Index (kg/m ²)	1.00 [0.96-1.05]	0.901
Sex	1.24 [0.71-2.18]	0.445

Logistic Regression: significant values in **bold**

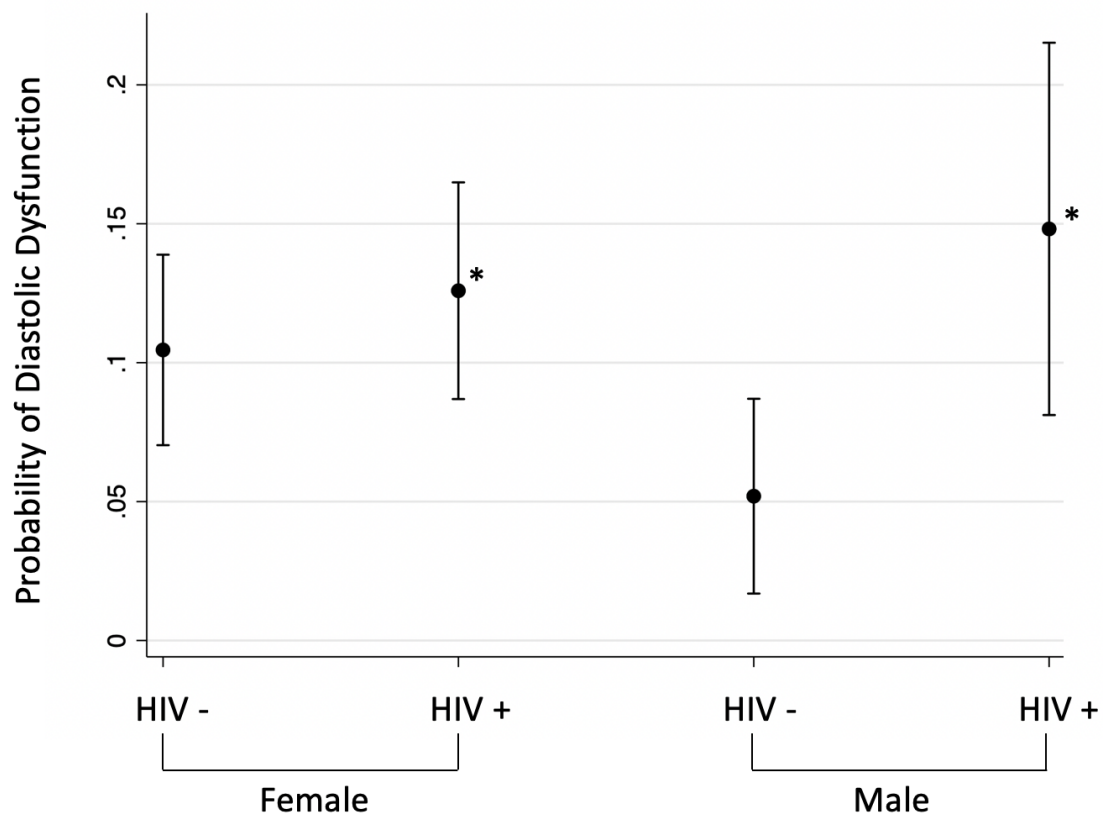
B

Variable	<u>PLWH</u>		<u>HIV-infected</u>	
	OR[CI]	<i>p-value</i>	OR[CI]	<i>p-value</i>
Female	2.13 [0.96-4.75]	0.064	0.83 [0.44-1.57]	0.563
Age	1.12 [1.08-1.16]	<0.0001	1.12 [1.08-1.16]	<0.0001
Body Mass Index (continuous)	1.10 [1.03-1.17]	0.005	1.05 [1.00-1.10]	0.050
Body Mass Index (stratified)		0.043		0.092
<18.5 kg/m ²	1.16 [0.37-3.62]	0.796	0.59 [0.22-1.60]	0.299
18.5-24.9 kg/m ²	-	-	-	-
25-29.9 kg/m ²	1.70 [0.76-3.79]	0.197	1.90 [0.87-4.14]	0.106
>=30 kg/m ²	3.81 [1.56-9.28]	0.003	1.86 [0.80-4.29]	0.148
Abdominal Obesity	1.84 [0.96-3.54]	0.067	2.49 [1.37-4.52]	0.003
Current Alcohol Use	-	-	0.94 [0.31-2.79]	0.906
Current Tobacco Use	0.71 [0.20-2.49]	0.595	0.64 [0.18-2.34]	0.398
Hypertension	6.70 [3.18-14.11]	<0.0001	4.10 [2.16-7.77]	<0.0001
CD4 Count	1.00 [0.99-1.00]	0.324	0.99 [0.99-1.00]	0.125
Systolic Blood Pressure	1.05 [1.04-1.07]	<0.0001	1.04 [1.02-1.05]	<0.0001
Diastolic Blood Pressure	1.10 [1.06-1.13]	<0.0001	1.07 [1.04-1.09]	<0.0001

*Analyses were performed on non-missing data. No variable missing more than 4 data points.

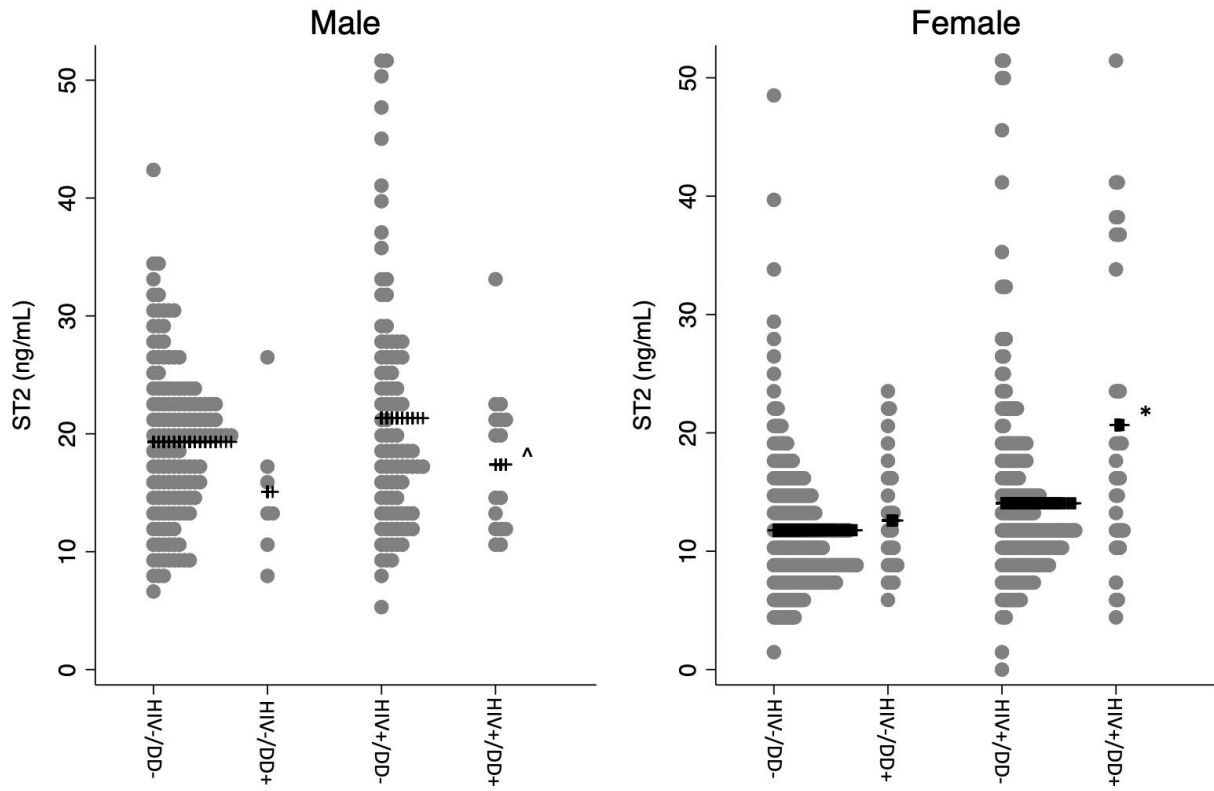
Logistic Regression: significant values in **bold**

SUPP FIGURE 1: Sex disaggregated myocardial diastolic dysfunction in PLWH and uninfected participants.



*p<0.05 (adjusted for age, systolic blood pressure and BMI)

SUPP FIGURE 2: Sex disaggregated serum ST2 concentration in PLWH and uninfected participants with and without myocardial diastolic dysfunction.



*p<0.0001 vs control group (controlled for age, blood pressure and BMI)
^p=0.146 vs control group (controlled for age, blood pressure, and BMI)
DD: diastolic dysfunction