

SUPPLEMENTAL MATERIAL

Supplemental Table 1. Unadjusted annual incidence of heart failure with preserved, reduced, midrange or unknown left ventricular ejection fraction, overall and by HIV status.

Heart Failure Subtype*	Crude rate per 100 person-years (95% confidence limits)		
	Overall Cohort	Persons with HIV	Persons without HIV
	N=425,454	N=38,868	N=386,586
HFpEF (N=1,013 events)	0.04 (0.04-0.04)	0.06 (0.05-0.07)	0.04 (0.04-0.04)
HFrEF (N=959 events)	0.04 (0.04-0.04)	0.05 (0.04-0.06)	0.04 (0.04-0.04)
HFmrEF (N=346 events)	0.01 (0.01-0.02)	0.02 (0.02-0.03)	0.01 (0.01-0.01)
Unknown EF (N=1,559 events)	0.06 (0.06-0.07)	0.10 (0.09-0.12)	0.06 (0.06-0.06)

*HFpEF denotes heart failure with preserved ejection fraction; HFrEF denotes heart failure with reduced ejection fraction; and HFmrEF denotes heart failure with midrange ejection fraction.

Supplemental Table 2. Unadjusted annual incidence of heart failure with preserved, reduced, midrange or unknown left ventricular ejection fraction, stratified by age.

Heart Failure Subtype*	Crude rate per 100 person-years (95% confidence limits)		
		Age 21 to 40 years	
	Overall Cohort N=212,511	Persons with HIV N=19,384	Persons without HIV N=193,127
All HF (N=486 events)	0.05 (0.04-0.05)	0.10 (0.08-0.12)	0.04 (0.04-0.04)
HFpEF (N=126 events)	0.01 (0.01-0.01)	0.02 (0.01-0.03)	0.01 (0.01-0.01)
HFrfEF (N=140 events)	0.01 (0.01-0.02)	0.03 (0.02-0.04)	0.01 (0.01-0.01)
HFmrEF (N=39 events)	0.00 (0.00-0.00)	0.01 (0.01-0.02)	0.00 (0.00-0.00)
Unknown EF (N=181 events)	0.02 (0.01-0.02)	0.04 (0.03-0.05)	0.01 (0.01-0.02)
		Age 41 to 50 years	
	Overall Cohort N=133,169	Persons with HIV N=12,189	Persons without HIV N=120,980
All HF (N=1,256 events)	0.14 (0.14-0.15)	0.19 (0.16-0.23)	0.14 (0.13-0.15)
HFpEF (N=298 events)	0.03 (0.03-0.04)	0.05 (0.03-0.06)	0.03 (0.03-0.04)
HFrfEF (N=352 events)	0.04 (0.04-0.04)	0.04 (0.03-0.06)	0.04 (0.04-0.04)
HFmrEF (N=101 events)	0.01 (0.01-0.01)	0.02 (0.01-0.03)	0.01 (0.01-0.01)
Unknown EF (N=505 events)	0.06 (0.05-0.06)	0.08 (0.06-0.11)	0.06 (0.05-0.06)
		Age ≥51 years	
	Overall Cohort N=79,774	Persons with HIV N=7,295	Persons without HIV N=72,479
All HF (N=2,135 events)	0.43 (0.41-0.45)	0.59 (0.52-0.67)	0.42 (0.40-0.44)
HFpEF (N=589 events)	0.12 (0.11-0.13)	0.15 (0.11-0.19)	0.11 (0.10-0.12)
HFrfEF (N=467 events)	0.09 (0.08-0.10)	0.11 (0.08-0.15)	0.09 (0.08-0.10)
HFmrEF (N=206 events)	0.04 (0.04-0.05)	0.05 (0.04-0.08)	0.04 (0.03-0.05)
Unknown EF (N=873 events)	0.17 (0.16-0.19)	0.26 (0.22-0.32)	0.17 (0.15-0.18)

*HFpEF denotes heart failure with preserved ejection fraction; HFrfEF denotes heart failure with reduced ejection fraction; and HFmrEF denotes heart failure with midrange ejection fraction.

Supplemental Table 3. Unadjusted annual incidence of heart failure with preserved, reduced, midrange or unknown left ventricular ejection fraction, stratified by sex.

Heart Failure Subtype*	Crude rate per 100 person-years (95% confidence limits)		
		Men	
	Overall Cohort N=373,260	Persons with HIV N=34,125	Persons without HIV N=339,135
All HF (N=3,496 events)	0.16 (0.16-0.17)	0.23 (0.20-0.25)	0.16 (0.15-0.16)
HFpEF (N=892 events)	0.04 (0.04-0.04)	0.06 (0.05-0.07)	0.04 (0.04-0.04)
HFrfEF (N=897 events)	0.04 (0.04-0.04)	0.05 (0.04-0.06)	0.04 (0.04-0.04)
HFmrEF (N=324 events)	0.02 (0.01-0.02)	0.02 (0.02-0.03)	0.01 (0.01-0.02)
Unknown EF (N=1,383 events)	0.06 (0.06-0.07)	0.09 (0.08-0.11)	0.06 (0.06-0.07)
		Women	
	Overall Cohort N=52,194	Persons with HIV N=4,743	Persons without HIV N=47,451
All HF (N=381 events)	0.13 (0.12-0.14)	0.27 (0.21-0.35)	0.12 (0.10-0.13)
HFpEF (N=121 events)	0.04 (0.03-0.05)	0.05 (0.03-0.09)	0.04 (0.03-0.05)
HFrfEF (N=62 events)	0.02 (0.02-0.03)	0.05 (0.03-0.09)	0.02 (0.01-0.02)
HFmrEF (N=22 events)	0.01 (0.00-0.01)	0.02 (0.01-0.04)	0.01 (0.00-0.01)
Unknown EF (N=176 events)	0.06 (0.05-0.07)	0.15 (0.11-0.20)	0.05 (0.04-0.06)

*HFpEF denotes heart failure with preserved ejection fraction; HFrfEF denotes heart failure with reduced ejection fraction; and HFmrEF denotes heart failure with midrange ejection fraction.

Supplemental Table 4. Unadjusted annual incidence of heart failure with preserved, reduced, midrange or unknown left ventricular ejection fraction, stratified by race/ethnicity.

Heart Failure Subtype*	Crude rate per 100 person-years (95% confidence limits)		
	Overall Cohort N=161,351	White Persons with HIV N=14,796	Persons without HIV N=146,555
All HF (N=1,824 events)	0.16 (0.16-0.17)	0.25 (0.21-0.28)	0.16 (0.15-0.17)
HFpEF (N=504 events)	0.05 (0.04-0.05)	0.06 (0.05-0.08)	0.04 (0.04-0.05)
HFrfEF (N=472 events)	0.04 (0.04-0.05)	0.05 (0.04-0.07)	0.04 (0.04-0.05)
HFmrEF (N=179 events)	0.02 (0.01-0.02)	0.03 (0.02-0.05)	0.01 (0.01-0.02)
Unknown EF (N=669 events)	0.06 (0.06-0.06)	0.10 (0.08-0.12)	0.06 (0.05-0.06)
		Black	
	Overall Cohort N=89,680	Persons with HIV N=8,161	Persons without HIV N=81,519
All HF (N=1,233 events)	0.23 (0.22-0.25)	0.31 (0.26-0.37)	0.23 (0.21-0.24)
HFpEF (N=311 events)	0.06 (0.05-0.07)	0.09 (0.06-0.12)	0.06 (0.05-0.06)
HFrfEF (N=313 events)	0.06 (0.05-0.07)	0.07 (0.05-0.10)	0.06 (0.05-0.06)
HFmrEF (N=91 events)	0.02 (0.01-0.02)	0.03 (0.02-0.05)	0.02 (0.01-0.02)
Unknown EF (N=516 events)	0.10 (0.09-0.11)	0.12 (0.09-0.16)	0.09 (0.09-0.10)
		Asian/Pacific Islander	
	Overall Cohort N=16,489	Persons with HIV N=1,506	Persons without HIV N=14,983
All HF (N=84 events)	0.09 (0.07-0.11)	0.17 (0.10-0.29)	0.08 (0.06-0.10)
HFpEF (N=28 events)	0.03 (0.02-0.04)	0.03 (0.01-0.10)	0.03 (0.02-0.04)
HFrfEF (N=26 events)	0.03 (0.02-0.04)	0.04 (0.01-0.12)	0.03 (0.02-0.04)
HFmrEF (N=11 events)	0.01 (0.01-0.02)	0.01 (0.00-0.09)	0.01 (0.01-0.02)
Unknown EF (N=19 events)	0.02 (0.01-0.03)	0.09 (0.04-0.19)	0.01 (0.01-0.02)
		Hispanic	
	Overall Cohort N=87,032	Persons with HIV N=7,928	Persons without HIV N=79,104
All HF (N=506 events)	0.11 (0.10-0.11)	0.12 (0.09-0.16)	0.10 (0.09-0.11)
HFpEF (N=149 events)	0.03 (0.03-0.04)	0.04 (0.02-0.06)	0.03 (0.03-0.04)
HFrfEF (N=128 events)	0.03 (0.02-0.03)	0.04 (0.02-0.06)	0.03 (0.02-0.03)
HFmrEF (N=54 events)	0.01 (0.01-0.01)	0.01 (0.00-0.02)	0.01 (0.01-0.02)
Unknown EF (N=175 events)	0.04 (0.03-0.04)	0.04 (0.02-0.06)	0.04 (0.03-0.04)

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