

## Supplementary Data

SUPPLEMENTARY TABLE S1. MEDIAN TIME IN SECONDS TO COMPLETE 4-M WALK BY GAIT SPEED TRAJECTORY GROUP

Year	<i>Persistently normal gait</i>	<i>Development of slow gait</i>	<i>Resolution of slow gait</i>	<i>Persistently slow gait</i>	<i>Total</i>
	(n=813)	(n=52)	(n=38)	(n=26)	(n=929)
Baseline	3.73	4.63	5.87	6.24	3.83
Year 1	3.78	5.32	4.97	6.19	3.89
Year 2	3.83	5.45	4.99	6.19	3.93
Year 3	3.88	5.98	4.75	6.79	4.00

SUPPLEMENTARY TABLE S2. AGE-ADJUSTED ANALYSIS OF ASSOCIATIONS BETWEEN BASELINE COVARIATES AND GAIT SPEED TRAJECTORY GROUPS

<i>Baseline characteristics</i>	<i>Development of slow gait</i> (OR, 95% CI)	<i>Resolution of slow gait</i> (OR, 95% CI)
Age (years)	1.01 (0.97–1.04) <i>p</i> = .74	0.93 (0.88–0.99) <i>p</i> = .023
Female	<b>2.78 (1.53–5.03) <i>p</i> = .001</b>	0.41 (0.13–1.25) <i>p</i> = .12
Race: Black vs. white	<b>4.12 (2.09–8.12) <i>p</i> ≤ .001</b>	0.55 (0.17–1.72) <i>p</i> = .30
Race: Hispanic vs. white	<b>2.18 (0.96–4.98) <i>p</i> = .063</b>	0.70 (0.15–3.36) <i>p</i> = .66
Education (≥12 years)	<b>0.53 (0.27–1.04) <i>p</i> = .064</b>	1.00 (0.28–3.60) <i>p</i> = 1.00
Hemoglobin A1C (%)	<b>1.39 (1.10–1.75) <i>p</i> = .005</b>	0.81 (0.55–1.19) <i>p</i> = .29
Body mass index (kg/m <sup>2</sup> )	<b>1.04 (0.99–1.09) <i>p</i> = .096</b>	<b>0.92 (0.85–1.00) <i>p</i> = .038</b>
High waist circumference	<b>1.90 (1.08–3.34) <i>p</i> = .025</b>	<b>0.41 (0.14–1.17) <i>p</i> = .094</b>
Physical activity: ≥3 days on either vigorous or moderate	0.83 (0.47–1.48) <i>p</i> = .54	1.42 (0.45–4.48) <i>p</i> = .55
Alcohol: heavy drinker vs. abstainer	0.60 (0.27–1.36) <i>p</i> = .22	1.62 (0.28–9.43) <i>p</i> = .59
Alcohol: light drinker vs. abstainer	<b>0.44 (0.23–0.87) <i>p</i> = .019</b>	1.30 (0.37–4.55) <i>p</i> = .69
Alcohol: moderate drinker vs. abstainer	0.56 (0.17–1.91) <i>p</i> = .36	0.92 (0.00, 1) <i>p</i> = 1.00
Substance use within past month at entry	0.51 (0.22–1.15) <i>p</i> = .10	0.77 (0.16–3.80) <i>p</i> = .75
Anti-anxiety or depression medications	0.98 (0.53–1.79) <i>p</i> = .94	0.51 (0.18–1.44) <i>p</i> = .21
Nadir CD4: 200–350 vs. <200 cells/μL	0.71 (0.37–1.35) <i>p</i> = .29	0.48 (0.16–1.46) <i>p</i> = .20
Nadir CD4: >350 vs. <200 cells/μL	0.66 (0.28–1.53) <i>p</i> = .33	0.68 (0.15–2.98) <i>p</i> = .61
NPZ3 score	<b>0.62 (0.47–0.81) <i>p</i> = .001</b>	1.31 (0.81–2.10) <i>p</i> = .270
NCI	<b>2.89 (1.55–5.38) <i>p</i> = .001</b>	1.11 (0.37–3.28) <i>p</i> = .86
INSTI use at HAILO entry	1.03 (0.53–2.01) <i>p</i> = .92	0.76 (0.24–2.39) <i>p</i> = .63
TDF use at HAILO entry	0.95 (0.49–1.86) <i>p</i> = .88	2.11 (0.73–6.13) <i>p</i> = .17
PI use at HAILO entry	0.00 (0.00, 1) <i>p</i> = .99	0.48 (0.04–5.78) <i>p</i> = .56
INSTI use at randomization	1.48 (0.67–3.27) <i>p</i> = .33	0.52 (0.09–2.85) <i>p</i> = .45
TDF use at randomization	1.23 (0.70–2.17) <i>p</i> = .47	0.69 (0.24–1.93) <i>p</i> = .48
PI use at randomization	0.65 (0.37–1.15) <i>p</i> = .14	1.11 (0.41–3.03) <i>p</i> = .83
Any previous exposure to DDI/D4T/AZT	1.18 (0.66–2.11) <i>p</i> = .57	2.20 (0.78–6.20) <i>p</i> = .13
Cigarette use: current vs. never	1.55 (0.80–3.00) <i>p</i> = .20	0.42 (0.12–1.50) <i>p</i> = .18
Cigarette use: former vs. never	0.85 (0.42–1.72) <i>p</i> = .65	0.51 (0.15–1.74) <i>p</i> = .28
Suppressed VL (<50 copies/mL)	0.81 (0.31–2.11) <i>p</i> = .66	0.39 (0.04–3.77) <i>p</i> = .42
Still on initial randomized therapy at HAILO entry	1.04 (0.58–1.86) <i>p</i> = .89	0.46 (0.16–1.31) <i>p</i> = .15
Peripheral neuropathy at HAILO entry	<b>1.72 (0.97–3.05) <i>p</i> = .064</b>	1.05 (0.36–3.04) <i>p</i> = .93

Characteristics were measured at baseline unless otherwise indicated. Covariates with *p* < .1 (*italicized* and in *bold*) were included in the final, multivariable models.

ART, antiretroviral therapy; AZT, zidovudine; CD4, CD4<sup>+</sup> T lymphocyte count; D4T, stavudine; DDI, didanosine; HAILO, HIV Infection, Aging, and Immune Function Long-term Observational Study; HIV, human immunodeficiency syndrome; INSTI, integrase strand transfer inhibitor; NCI, neurocognitive impairment; PI, protease inhibitor; TDF, tenofovir.