Supplementary

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Supplemental Figure S1. Causes of the First Hospitalizations Stratified by Age (A) and by Sex (B), HAILO 2017-2021

Supplemental Figure S2. Length of Stay for the First Hospitalization Stratified by Age (A) and by Sex (B), HAILO 2017-2021

Supplemental Table S1. Participant-Reported Causes of the First Hospitalizations During Study Follow-up, HAILO 2017-2021.

Cause of Hospitalization	Questionnaire Field
Lung problems	Lung problems excluding blood clots Shortness of breath
Elective surgery	Planned/scheduled surgery
Infection	Infection Fever of unknown origin COVID-19 Ocular syphilis
Cardiovascular	Heart or blood vessel problems Hemorrhagic Pericardial Effusion Aneurysm - head
Injury/accident	Injury/accident Electrocuted Smoke inhalation from house fire Assault
Emergency surgery	Urgent/emergent surgery Revision surgery
Renal and urinary disorders	Kidney/bladder problems/infection
Mental health	Psychological/mental health prob
Gastrointestinal disorders	Liver/gallbladder/gut problems Acute gastroenteritis with dehydration Intestinal Obstruction Colitis/fainting
Diabetes complications	Diabetes/diabetes complications
Back problems	Back problems
Blood clot	Blood clots
Cancer complications	Cancer/complications of cancer TX
Neurology	Neurologic issues
Substance use	Alcohol abuse Alcohol withdraw Bupropion overdose Substance abuse rehabilitation Overdose
Other	Other, specified Other, not specified

Supplemental Table S2: Incidence Rates of Hospitalization in Older People with HIV, HAILO 2017-2021

	Time at risk (person-years)	No. of patients	Incidence rate per 100 person-years (95% CI)
Overall	2721	170	6.2 (5.4 to 7.3)
Age group, years			
40-49	1251	65	5.2 (4.1 to 6.6)
50-59	1096	78	7.1 (5.7 to 8.9)
≥60	374	27	7.2 (4.9 to 10.5)
Sex			
Female	533	42	7.9 (5.8 to 10.7)
Male	2188	128	5.9 (4.9 to 7.0)

Supplemental Table S3. Cox Proportional Hazards Regression Analysis of Risk Factors for Hospitalization, Excluding Elective Surgery, HAILO 2017-2021

Characteristic	Crude Model Hazard Ratio (95% CI)	*p*-value*	Adjusted Model Hazard Ratio (95% CI)	*p*-value*
Age group, years		0.54		0.90
40-49	Ref.		Ref.	
50-59	1.18 (0.82 to 1.69)		1.08 (0.74 to 1.57)	
≥60	1.27 (0.78 to 2.06)		0.99 (0.55 to 1.77)	
Sex		0.10		0.43
Male	Ref.		Ref.	
Female	1.38 (0.94 to 2.03)		1.19 (0.77 to 1.83)	
Race and ethnicity		0.021		0.85
White, non-Hispanic	Ref.		Ref.	
Black, non-Hispanic	1.27 (0.88 to 1.83)		0.93 (0.62 to 1.40)	
Hispanic/other	0.61 (0.37 to 1.01)		0.85 (0.47 to 1.53)	
Education		0.007		0.05
<High school	Ref.		Ref.	
High school	0.92 (0.57 to 1.48)		0.78 (0.46 to 1.32)	
>High school	0.56 (0.36 to 0.86)		0.54 (0.32 to 0.91)	
Body mass index, kg/m^2		0.14		-
<25	Ref.		-	
25-<30	0.68 (0.45 to 1.03)		-	
≥30	0.95 (0.64 to 1.42)		-	
Medical insurance		0.07		0.45
Private	Ref.		Ref.	
Public	1.39 (0.96 to 2.03)		0.95 (0.60 to 1.49)	
Medicare	1.64 (1.01 to 2.66)		1.16 (0.66 to 2.04)	
None/unknown	0.69 (0.30 to 1.62)		0.54 (0.23 to 1.26)	
Smoking status		<0.001		0.013
Never	Ref.		Ref.	
Former	1.58 (1.06 to 2.37)		1.53 (1.00 to 2.35)	
Current	2.22 (1.47 to 3.36)		1.87 (1.22 to 2.87)	
Alcohol		0.98		-
Abstainer	Ref.		-	
Light drinker	0.96 (0.65 to 1.41)		-	
Moderate/heavy drinker	0.98 (0.64 to 1.50)		-	
Substance use (tobacco excluded)		0.20		-
Never	Ref.		-	
Former	1.43 (0.97 to 2.13)		-	
Current	1.20 (0.80 to 1.81)		-	
Physical activity, weekly		0.014		0.21

<3 days of moderate/vigorous activity	Ref.		Ref.	
≥3 days of moderate/vigorous activity	0.66 (0.47 to 0.92)		0.79 (0.56 to 1.14)	
Frailty status		<0.001		0.013
Robust	Ref.		Ref.	
Pre-frail	1.14 (0.80 to 1.62)		0.81 (0.55 to 1.21)	
Frail	3.35 (1.95 to 5.75)		1.96 (1.08 to 3.55)	
Duration of ART, years		0.43		-
<5	Ref.			
5-<8	0.75 (0.48 to 1.19)		-	
8-<11	0.79 (0.48 to 1.29)		-	
≥11	0.73 (0.48 to 1.11)		-	
CD4 Count, cells/mm^3		0.417		-
<500	Ref.			
≥500	0.86 (0.59 to 1.24)		-	
HIV RNA, copies/mL		0.033		0.038
<50	Ref.		Ref.	
≥50	1.93 (1.06 to 3.54)		1.88 (1.04 to 3.4)	
U.S. region of entry site		<0.001		0.018
Northeast	Ref.		Ref.	
Midwest	0.94 (0.62 to 1.42)		1.09 (0.71 to 1.67)	
South	0.78 (0.48 to 1.28)		0.83 (0.50 to 1.37)	
West	0.33 (0.19 to 0.57)		0.43 (0.24 to 0.78)	
Participant-reported comorbidities				
Diabetes	2.13 (1.45 to 3.14)	<0.001	1.81 (1.18 to 2.78)	0.007
Hypertension	0.85 (0.61 to 1.18)	0.33	-	-
Renal disease	1.35 (0.80 to 2.29)	0.26	-	-
Cardiovascular disease	1.77 (1.12 to 2.79)	0.015	1.46 (0.88 to 2.40)	0.14

Supplemental Table S4. Cox Proportional Hazards Regression Analysis of Risk Factors for Hospitalization Stratified by Sex, HAILO 2017-2021

	Female (n=168)				**Male (n=685)**			
	Crude model		**Adjusted model**		**Crude model**		**Adjusted model**	
Characteristic	Hazard Ratio (95% CI)	*p*-value*	Hazard Ratio (95% CI)	p-value*	Hazard Ratio (95% CI)	p-value*	Hazard Ratio (95% CI)	p-value*
Age group, years		0.51		0.77		0.14		0.24
40-49	Ref.		Ref.		Ref.		Ref.	
50-59	1.37 (0.72 to 2.60)		1.25 (0.59 to 2.68)		1.36 (0.93 to 2.00)		1.36 (0.92 to 2.00)	
≥60	0.87 (0.29 to 2.57)		1.42 (0.44 to 4.57)		1.55 (0.95 to 2.54)		0.99 (0.57 to 1.72)	
Race and ethnicity		0.035		0.12		0.06		0.95
White, non-Hispanic	Ref.		Ref.		Ref.		Ref.	
Black, non-Hispanic	0.73 (0.37 to 1.43)		0.48 (0.21 to 1.09)		1.21 (0.81 to 1.79)		1.07 (0.72 to 1.58)	
Hispanic/other	0.25 (0.09 to 0.72)		0.41 (0.13 to 1.25)		0.60 (0.36 to 1.01)		1.02 (0.56 to 1.86)	
Education		0.52		-		0.08		-
<High school	Ref.		-		Ref.		-	
High school	0.87 (0.42 to 1.81)		-		1.03 (0.58 to 1.82)		-	
>High school	0.66 (0.32 to 1.35)		-		0.68 (0.41 to 1.14)		-	
Body mass index, kg/m^2		0.67		-		0.18		-
<25	Ref.		-		Ref.		-	
25-<30	1.04 (0.42 to 2.58)		-		0.68 (0.45 to 1.02)		-	
≥30	1.35 (0.62 to 2.91)		-		0.87 (0.56 to 1.33)		-	
Medical insurance		0.54		-		0.002		0.09
Private	Ref.		-		Ref.		Ref.	
Public	1.44 (0.72 to 2.90)		-		1.27 (0.85 to 1.91)		1.07 (0.70 to 1.66)	
Medicare	0.82 (0.22 to 3.07)		-		2.14 (1.37 to 3.35)		1.63 (1.00 to 2.66)	

None/unknown	0.78 (0.22 to 2.79)		-		0.43 (0.13 to 1.37)		0.45 (0.14 to 1.47)	
Smoking status		0.16		-		<0.001		<0.001
Never	Ref.		-		Ref.		-	
Former	1.83 (0.87 to 3.84)		-		1.60 (1.05 to 2.43)		1.65 (1.05 to 2.58)	
Current	1.86 (0.90 to 3.86)		-		2.35 (1.51 to 3.65)		2.38 (1.52 to 3.73)	
Alcohol		0.36		-		0.43		-
Abstainer	Ref.		-		Ref.		-	
Light drinker	1.67 (0.82 to 3.40)		-		0.77 (0.51 to 1.15)		-	
Moderate/heavy drinker	1.27 (0.60 to 2.69)		-		0.86 (0.55 to 1.35)		-	
Substance use (tobacco excluded)		0.001		0.034		0.80		-
Never	Ref.		Ref.		Ref.		-	
Former	3.05 (1.63 to 5.70)		1.89 (0.93 to 3.85)		1.13 (0.74 to 1.73)		-	
Current	1.03 (0.35 to 3.04)		0.46 (0.13 to 1.61)		1.12 (0.74 to 1.69)		-	
Physical activity, weekly		0.58	-	-		0.007		0.11
<3 days of moderate/vigorous activity	Ref.		-		Ref.		Ref.	
≥3 days of moderate/vigorous activity	0.84 (0.46 to 1.55)		-		0.62 (0.44 to 0.87)		0.74 (0.51 to 1.07)	
Frailty status		<0.001		0.025		<0.001		0.05
Robust	Ref.		Ref.		Ref.		Ref.	
Pre-frail	1.30 (0.65 to 2.62)		1.54 (0.71 to 3.3)		1.19 (0.82 to 1.72)		0.85 (0.57 to 1.27)	
Frail	5.04 (2.25 to 11.33)		3.94 (1.46 to 10.62)		3.21 (1.81 to 5.69)		1.82 (0.96 to 3.44)	
Duration of ART, years		0.035		0.08		1.00		-
<5	Ref.		Ref.		Ref.		-	
5-<8	0.34 (0.12 to 0.94)		0.48 (0.18 to 1.25)		0.98 (0.61 to 1.57)		-	
8-<11	0.28 (0.08 to 0.89)		0.28 (0.08 to 0.97)		0.98 (0.58 to 1.66)		-	

≥11	0.57 (0.28 to 1.17)		0.50 (0.23 to 1.11)		0.94 (0.60 to 1.48)		-	
CD4 Count, cells/mm^3		0.77		-		0.70		-
<500	Ref.		-		Ref.		-	
≥500	1.12 (0.53 to 2.33)		-		0.93 (0.62 to 1.37)		-	
HIV RNA, copies/mL		0.16		0.29		0.51		0.51
<50	Ref.		Ref.		Ref.		Ref.	
≥50	2.06 (0.76 to 5.59)		1.86 (0.58 to 5.96)		1.29 (0.60 to 2.75)		1.28 (0.62 to 2.63)	
U.S. region of entry site		0.008		0.14		<0.001		0.02
Northeast	Ref.		Ref.		Ref.		Ref.	
Midwest	0.49 (0.23 to 1.06)		0.52 (0.23 to 1.18)		1.41 (0.88 to 2.26)		1.44 (0.88 to 2.33)	
South	0.33 (0.13 to 0.83)		0.42 (0.16 to 1.14)		1.22 (0.71 to 2.08)		1.04 (0.61 to 1.77)	
West	0.25 (0.10 to 0.67)		0.36 (0.11 to 1.22)		0.50 (0.28 to 0.89)		0.57 (0.31 to 1.05)	
Participant-reported comorbidities								
Diabetes	1.27 (0.58 to 2.78)	0.55	-	-	2.16 (1.44 to 3.24)	<0.001	1.87 (1.23 to 2.84)	0.004
Hypertension	1.23 (0.67 to 2.25)	0.50	-	-	0.75 (0.53 to 1.06)	0.10	-	-
Renal disease	1.92 (0.84 to 4.38)	0.12	-	-	1.58 (0.94 to 2.67)	0.09	-	-
Cardiovascular disease	0.88 (0.26 to 2.96)	0.84	-	-	1.98 (1.26 to 3.11)	0.003	1.54 (0.97 to 2.43)	0.06

Supplemental Table S5. Crude and Adjusted Incidence Rate Ratios

	Crude Model	Adjusted Model
Characteristic	**Incidence Rate Ratio (95% CI)**	**Incidence Rate Ratio (95% CI)**
Age group, years		
40-49	Ref.	Ref.
50-59	1.27 (0.90 to 1.80)	1.13 (0.80 to 1.58)
≥60	1.32 (0.82 to 2.13)	0.89 (0.53 to 1.47)
Sex		
Male	Ref.	Ref.
Female	1.45 (1.00 to 2.10)	1.30 (0.88 to 1.92)
Race and ethnicity		
White, non-Hispanic	Ref.	Ref.
Black, non-Hispanic	1.13 (0.80 to 1.60)	0.78 (0.54 to 1.13)
Hispanic/other	0.49 (0.31 to 0.79)	0.66 (0.38 to 1.14)
Education		
<High school	Ref.	Ref.
High school	0.80 (0.54 to 1.18)	0.80 (0.47 to 1.34)
>High school	0.87 (0.58 to 1.29)	0.60 (0.36 to 1.00)
Body mass index, kg/m^2		
<25	Ref.	-
25-<30	0.72 (0.50 to 1.05)	-
≥30	1.00 (0.70 to 1.45)	-
Medical insurance		
Private	Ref.	Ref.
Public	1.64 (1.15 to 2.33)	1.20 (0.80 to 1.80)
Medicare	2.11 (1.33 to 3.36)	1.46 (0.90 to 2.36)
None/unknown	0.47 (0.19 to 1.16)	0.41 (0.16 to 1.03)
Smoking status		
Never	Ref.	Ref.
Former	1.61 (1.11 to 2.35)	1.44 (1.00 to 2.09)
Current	2.39 (1.61 to 3.55)	1.81 (1.21 to 2.70)
Alcohol		
Abstainer	Ref.	-
Light drinker	0.96 (0.66 to 1.39)	-
Moderate/heavy drinker	1.17 (0.78 to 1.74)	-
Substance use (tobacco excluded)		
Never	Ref.	-
Former	1.63 (1.13 to 2.37)	-
Current	1.24 (0.83 to 1.85)	-
Physical activity, weekly		

<3 days of moderate/vigorous activity	Ref.	Ref.
≥3 days of moderate/vigorous activity	0.72 (0.52 to 0.99)	0.85 (0.62 to 1.16)
Frailty status		
Robust	Ref.	Ref.
Pre-frail	1.18 (0.85 to 1.64)	0.87 (0.62 to 1.22)
Frail	3.45 (2.00 to 5.95)	1.95 (1.15 to 3.33)
Duration of ART, years		
<5	Ref.	-
5-<8	0.72 (0.46 to 1.12)	-
8-<11	0.67 (0.40 to 1.11)	-
≥11	0.88 (0.60 to 1.29)	-
CD4 Count, cells/mm^3		
<500	Ref.	-
≥500	0.94 (0.65 to 1.36)	-
HIV RNA, copies/mL		
<50	Ref.	Ref.
≥50	1.50 (0.78 to 2.89)	1.31 (0.69 to 2.50)
U.S. region of entry site		
Northeast	Ref.	Ref.
Midwest	0.95 (0.64 to 1.40)	1.10 (0.74 to 1.64)
South	0.77 (0.49 to 1.21)	0.92 (0.58 to 1.47)
West	0.33 (0.20 to 0.55)	0.48 (0.28 to 0.82)
Participant-reported comorbidities		
Diabetes	1.64 (1.08 to 2.48)	1.68 (1.10 to 2.56)
Hypertension	0.94 (0.68 to 1.29)	-
Renal disease	1.94 (1.22 to 3.08)	1.59 (1.00 to 2.51)
Cardiovascular disease	1.86 (1.18 to 2.94)	1.51 (0.97 to 2.34)

Supplemental Table S6. Cox Proportional Hazards Regression Analysis of Risk Factors for Hospitalization: a sensitivity analysis using an alternative date of hospitalization definition

	Crude Model	Adjusted Model
Characteristic	**Hazard Ratio (95% CI)**	**Hazard Ratio (95% CI)**
Age group, years		
40-49	Ref.	Ref.
50-59	1.38 (0.99 to 1.92)	1.17 (0.83 to 1.65)
≥60	1.40 (0.90 to 2.18)	0.94 (0.55 to 1.59)
Sex		
Male	Ref.	Ref.
Female	1.36 (0.95 to 1.93)	1.19 (0.8 to 1.77)
Race and ethnicity		
White, non-Hispanic	Ref.	Ref.
Black, non-Hispanic	1.19 (0.86 to 1.65)	0.89 (0.62 to 1.28)
Hispanic/other	0.53 (0.33 to 0.84)	0.7 (0.4 to 1.21)
Education		
<High school	Ref.	Ref.
High school	0.96 (0.61 to 1.49)	0.81 (0.5 to 1.32)
>High school	0.63 (0.42 to 0.94)	0.56 (0.34 to 0.92)
Body mass index, kg/m^2		
<25	Ref.	-
25-<30	0.72 (0.50 to 1.05)	-
≥30	1.00 (0.70 to 1.44)	-
Medical insurance		
Private	Ref.	Ref.
Public	1.39 (0.99 to 1.96)	0.98 (0.64 to 1.5)
Medicare	1.91 (1.25 to 2.90)	1.28 (0.78 to 2.1)
None/unknown	0.58 (0.25 to 1.34)	0.49 (0.21 to 1.14)
Smoking status		
Never	Ref.	Ref.
Former	1.60 (1.11 to 2.30)	1.5 (1.01 to 2.23)
Current	2.21 (1.52 to 3.22)	1.92 (1.24 to 2.96)
Alcohol		
Abstainer	Ref.	-
Light drinker	0.88 (0.62 to 1.24)	-
Moderate/heavy drinker	0.96 (0.65 to 1.40)	-
Substance use (tobacco excluded)		
Never	Ref.	Ref.
Former	1.43 (1.01 to 2.04)	1.22 (0.83 to 1.78)
Current	1.10 (0.76 to 1.61)	0.83 (0.53 to 1.3)
Physical activity, weekly		

<3 days of moderate/vigorous activity	Ref.	Ref.
≥3 days of moderate/vigorous activity	0.66 (0.49 to 0.90)	0.83 (0.6 to 1.14)
Frailty status		
Robust	Ref.	Ref.
Pre-frail	1.24 (0.89 to 1.71)	0.94 (0.66 to 1.34)
Frail	3.93 (2.46 to 6.27)	2.42 (1.43 to 4.08)
Duration of ART, years		
<5	Ref.	-
5-<8	0.77 (0.51 to 1.16)	-
8-<11	0.73 (0.46 to 1.17)	-
≥11	0.80 (0.55 to 1.16)	-
CD4 Count, cells/mm^3		
<500	Ref.	-
≥500	0.98 (0.69 to 1.39)	-
HIV RNA, copies/mL		
<50	Ref.	Ref.
≥50	1.52 (0.83 to 2.76)	1.45 (0.83 to 2.55)
U.S. region of entry site		
Northeast	Ref.	Ref.
Midwest	1.01 (0.69 to 1.47)	1.16 (0.79 to 1.71)
South	0.82 (0.53 to 1.27)	0.92 (0.58 to 1.45)
West	0.38 (0.23 to 0.62)	0.56 (0.33 to 0.95)
Participant-reported comorbidities		
Diabetes	1.85 (1.29 to 2.66)	1.59 (1.06 to 2.38)
Hypertension	0.83 (0.61 to 1.12)	-
Renal disease	1.68 (1.08 to 2.61)	1.41 (0.87 to 2.27)
Cardiovascular disease	1.70 (1.12 to 2.59)	1.42 (0.91 to 2.2)

Sensitivity analysis using hospitalization dates assigned to the midpoint between the last visit without reported hospitalization and the first visit with reported hospitalization.

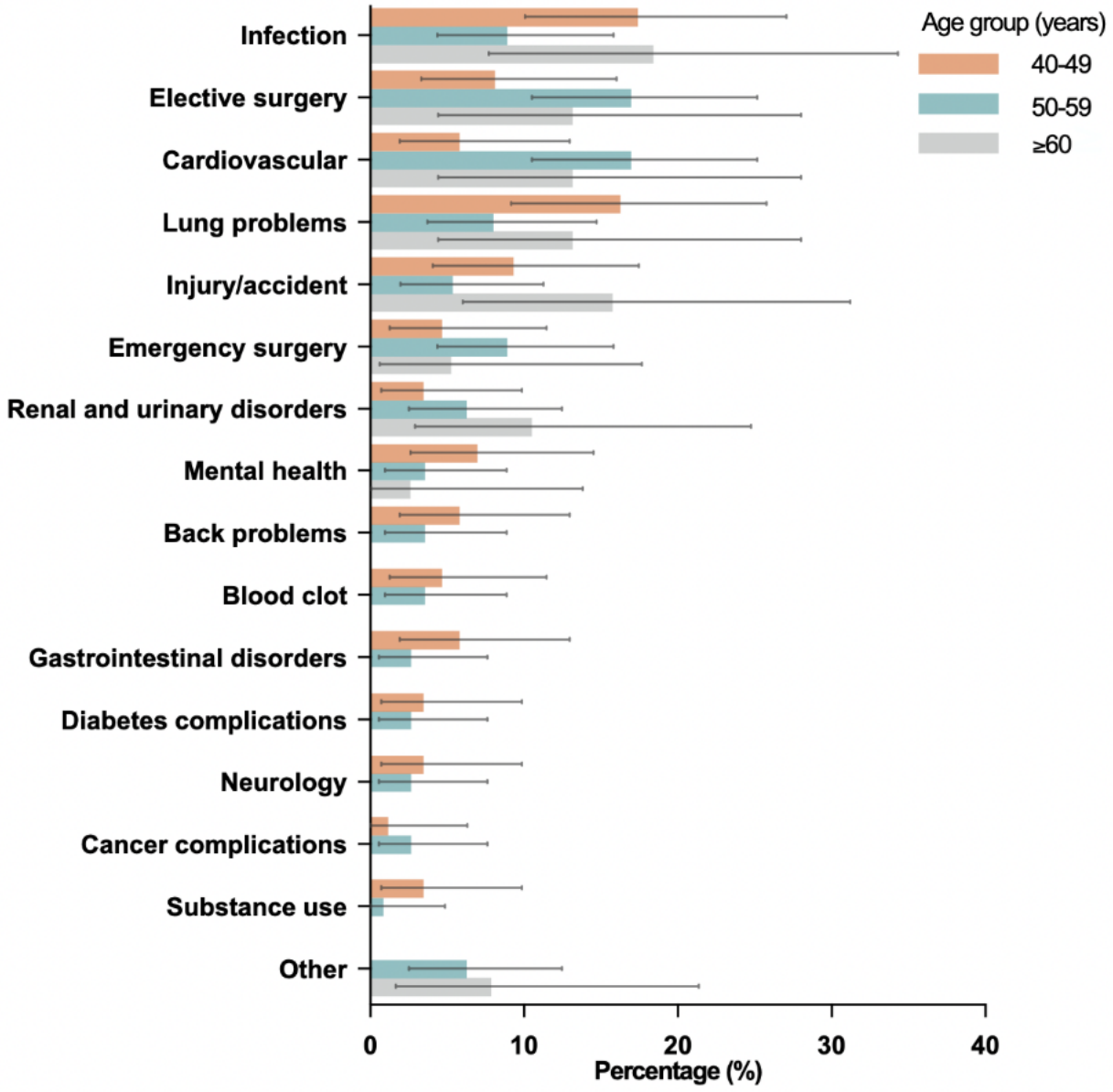
Supplemental Table S7. Cox Proportional Hazards Regression Analysis of Risk Factors for Hospitalization: a sensitivity analysis censoring participants at their last biannual visit

	Crude Model	Adjusted Model
Characteristic	**Hazard Ratio (95% CI)**	**Hazard Ratio (95% CI)**
Age group, years		
40-49	Ref.	Ref.
50-59	1.33 (0.93 to 1.91)	1.17 (0.81 to 1.69)
≥60	1.23 (0.74 to 2.04)	0.79 (0.44 to 1.44)
Sex		
Male	Ref.	Ref.
Female	1.45 (0.99 to 2.13)	1.42 (0.94 to 2.16)
Race and ethnicity		
White, non-Hispanic	Ref.	Ref.
Black, non-Hispanic	1.25 (0.88 to 1.80)	0.98 (0.66 to 1.46)
Hispanic/other	0.46 (0.27 to 0.80)	0.70 (0.38 to 1.29)
Education		
<High school	Ref.	-
High school	0.97 (0.59 to 1.60)	-
>High school	0.66 (0.43 to 1.03)	-
Body mass index, kg/m^2		
<25	Ref.	-
25-<30	0.66 (0.43 to 1.01)	-
≥30	1.03 (0.69 to 1.53)	-
Medical insurance		
Private	Ref.	Ref.
Public	1.36 (0.93 to 1.99)	1.01 (0.66 to 1.56)
Medicare	1.98 (1.25 to 3.13)	1.29 (0.78 to 2.13)
None/unknown	0.59 (0.23 to 1.48)	0.54 (0.23 to 1.28)
Smoking status		
Never	Ref.	Ref.
Former	1.84 (1.20 to 2.81)	1.73 (1.12 to 2.69)
Current	2.70 (1.76 to 4.14)	2.25 (1.45 to 3.48)
Alcohol		
Abstainer	Ref.	-
Light drinker	0.79 (0.54 to 1.16)	-
Moderate/heavy drinker	0.84 (0.54 to 1.29)	-
Substance use (tobacco excluded)		
Never	Ref.	-
Former	1.37 (0.93 to 2.01)	-
Current	0.99 (0.65 to 1.52)	-
Physical activity, weekly		

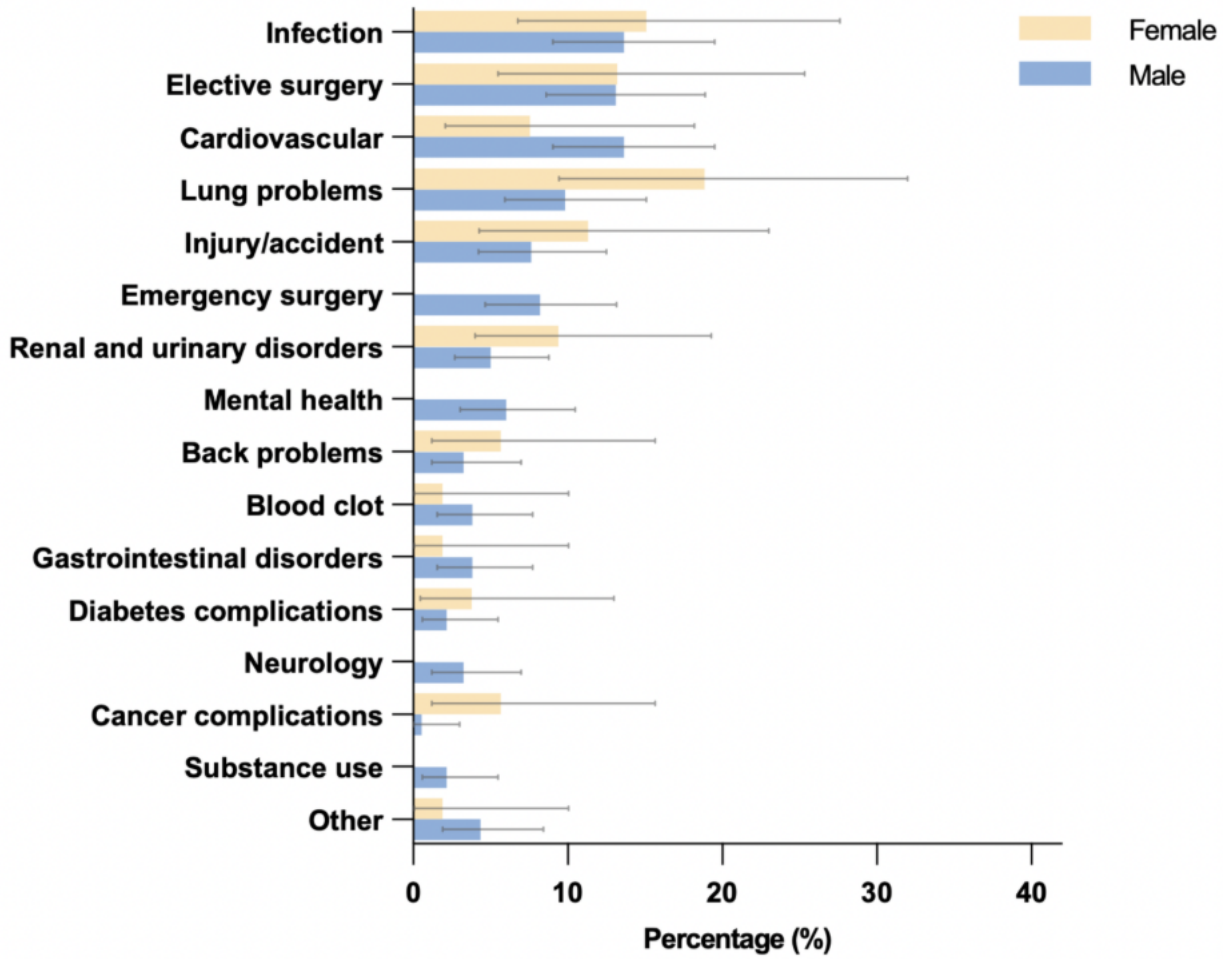
<3 days of moderate/vigorous activity	Ref.	Ref.
≥3 days of moderate/vigorous activity	0.66 (0.47 to 0.92)	0.81 (0.57 to 1.16)
Frailty status		
Robust	Ref.	Ref.
Pre-frail	1.36 (0.95 to 1.95)	1.08 (0.73 to 1.59)
Frail	4.16 (2.51 to 6.91)	2.62 (1.51 to 4.51)
Duration of ART, years		
<5	Ref.	-
5-<8	0.70 (0.44 to 1.11)	-
8-<11	0.57 (0.32 to 1.01)	-
≥11	0.87 (0.58 to 1.30)	-
CD4 Count, cells/mm^3		
<500	Ref.	-
≥500	1.01 (0.68 to 1.50)	-
HIV RNA, copies/mL		
<50	Ref.	Ref.
≥50	1.67 (0.90 to 3.11)	1.58 (0.83 to 30)
U.S. region of entry site		
Northeast	Ref.	Ref.
Midwest	1.03 (0.67 to 1.56)	1.19 (0.77 to 1.83)
South	0.92 (0.57 to 1.47)	1.04 (0.64 to 1.67)
West	0.35 (0.20 to 0.61)	0.59 (0.32 to 1.07)
Participant-reported comorbidities		
Diabetes	1.97 (1.33 to 2.91)	1.91 (1.27 to 2.87)
Hypertension	0.81 (0.58 to 1.13)	-
Renal disease	1.87 (1.18 to 2.97)	1.56 (0.91 to 2.65)
Cardiovascular disease	1.89 (1.21 to 2.96)	1.63 (1.05 to 2.54)

Supplemental Figure S1. Causes of the First Hospitalizations Stratified by Age (A) and by Sex (B), HAILO 2017-2021

A. Age-Stratified



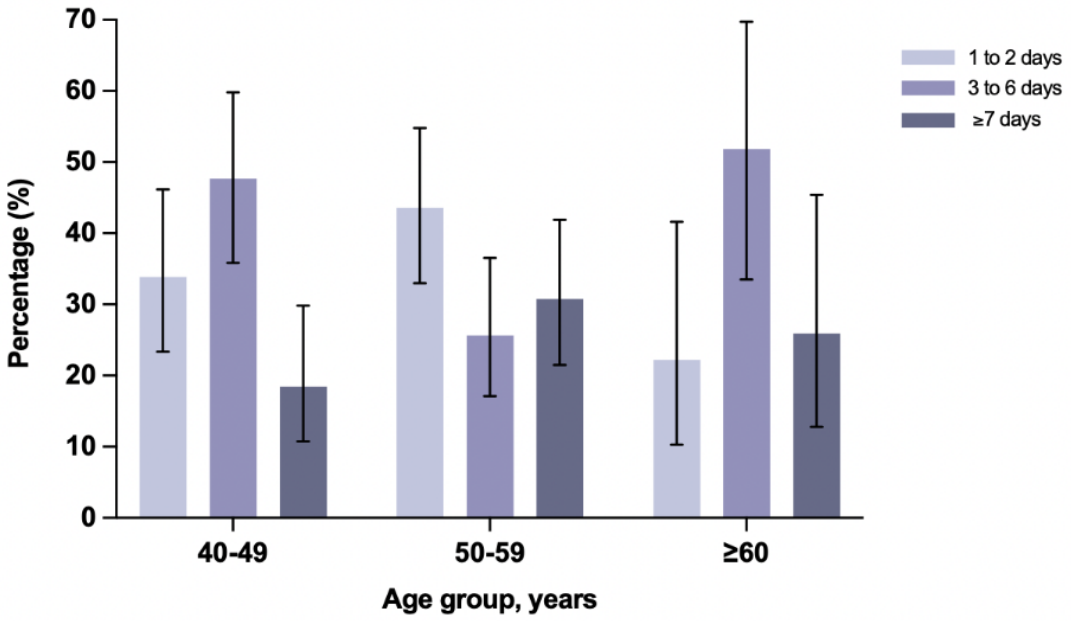
B. Sex-Stratified



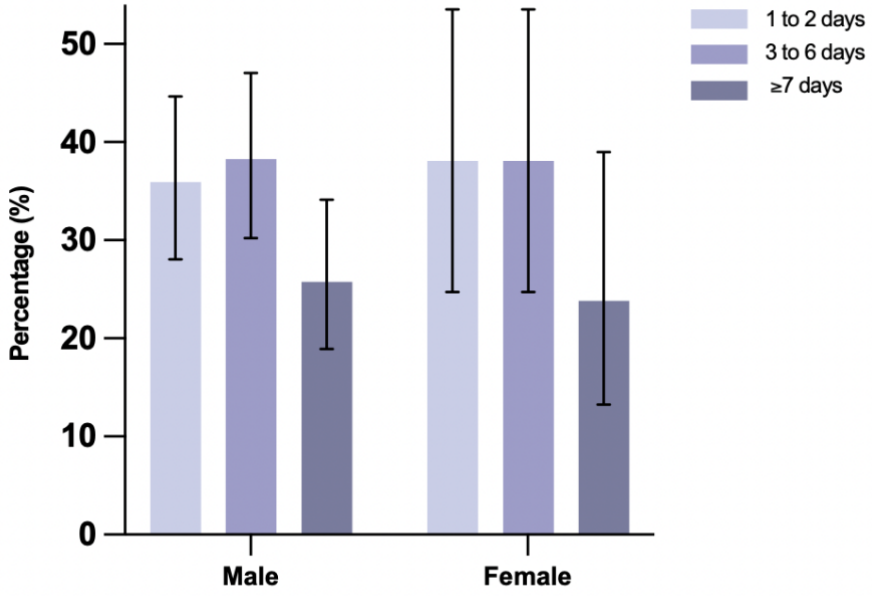
Note: Lung problems exclude blood clots. Of the 170 participants with a first-time hospitalization event, 169 reported the cause of hospitalization.

Supplemental Figure S2. Length of Stay for the First Hospitalization Stratified by Age (A) and by Sex (B), HAILO 2017-2021

A. Age-Stratified



B. Sex-Stratified



Note: All 170 participants with a first-time hospitalization event reported their length of stay.