Supplementary Tables

Supplementary Table S1. Analysis variable dictionary

	General Characteristics
Gender	Categorical: Women, Men, Transgender
Age	Continuous
Household	Categorical: Living alone, living with a partner, living with family members, other
Education	Categorical: Did not complete high school, completed high school, attended technical school, attended higher education, completed a degree in higher education
Smartphone Ownership	Binary variable regarding smartphone ownership.
	COVID-19
Self-Isolation	Categorical: Yes, by myself; Yes, with a partner or family member; Not isolating
Covid-19 Exposure	1. Binary: Direct Exposure with a known Covid-19 positive individual 2. Binary: Family member or friend with known Covid-19
Specific Stressors during lockdown	Participants were asked about 20 specific stressors during lockdown, with responses classified as yes or no.
Total Stressors	Continuous: Total Number of Stressors (Max 20). Mean and standard deviation were calculated.
Economic Worry	Binary: Yes, if a participant reported any sign of economic worry (job loss, price inflation, limited savings, buying food or other necessities)
	HIV Care
Disclosure	Binary: Patient has disclosed HIV status to someone
HIV Care prior to Covid-19	1. Binary: Patient is registered at an AIDS Center 2. Binary: Patient has ever been prescribed ART 3. Patient is currently prescribed ART
ART Adherence	Binary: Participants were asked during how many days in the past week they took ART medication. Patients classified as adherent if they reported missing no doses in last 7 days
HIV support	Binary: Patient reports that they have someone who supports HIV treatment (i.e. provides reminders about medication)
HIV support preferences	Patients were asked preferences regarding characteristics of those providing HIV care support, including if they preferred individuals with the same HIV status, of a similar age, of the same gender, of the same sexual orientation, and those with medical expertise.
Willingness to provide HIV peer support	Binary: Patients reported yes/no if interested in providing peer support to OPWH.
	Drug and Alcohol Use
Drug Use	Binary: Any reported illicit drug use during Covid-19 lockdown
Addiction	Binary: Patient either self-reported a diagnosis of a substance use disorder or an alcohol use disorder OR the patient was recruited as a patient of an addiction treatment clinic
Alcohol Use (AUDIT-C)	AUDIT-C: Lower risk drinking (Score <3); Higher risk drinking (Scores ≥ 3) Validation: Bradley et al., 2007; Frank et al., 2008.
	Psychosocial

Social Support	Patients self-report on the number of individuals they felt like they could trust and turn to for help.
Resilience (BRS)	Categorical: The possible score range of the BRS range from 1 to 5. Scores less than 3 classified low resilience, scores between 3 and 4.3 classified normal resilience, and scores between 4.31 and 5 classified higher resilience. (Smith et al., 2018).
	Chronic Conditions
Health	Binary: Patient has a chronic condition in addition to HIV, including kidney disease, diabetes, heart disease.
Care during Covid-19	Regarding chronic conditions care, patients were asked the following yes/no questions: 1. Have you had changes to your care routine 2. Are you worried about medication shortage 3. Have you stopped care due to financial problems 4. Can you no longer visit you physician
Medication Adherence	Binary: Patients were asked if they had taken all of their pills, most of their pills, about half of their pills, almost none, or none of their pills during the last 7 days. Patients were then categorized in analysis as either taking less than half of pills OR all of most pills. To note: no patients reported about half.

Supplementary Table S2. Full Bivariate and Multivariable Modeling: Correlates of depressive symptoms

	General Characteristics	Bivariate OR (95% CI)	Multivariable aOR (95% CI)	p-value
Sex	Female	2.59 (1.27 – 5.40)	2.83 (1.19 – 7.05)	0.018
	Male	Ref	Ref	
Age	Age of participant	0.97 (0.91 – 1.02)	0.96 (0.89 – 1.03)	0.266
Education	Completed High School	Ref		
	Attended Vocational Secondary School	0.14 (0.01 – 1.48)		
	Some Higher Education	0.14 (0.01 – 2.03)		
	Completed Higher Education	0.08 (0.01 – 0.86)		
Smartphone	Owns a smartphone	1.00 (0.43 – 2.23)		
Health	Chronic condition in addition to HIV	0.97 (0.45 – 2.11)		
	Response to COVID-19 Lockdown			
Self-Isolation	Yes, by myself	Ref		
	Yes, with a partner/spouse/family member	0.96 (0.41 – 2.29)		
	No	0.57 (0.22 – 1.49)		
Covid-19 Exposure	Direct Exposure	2.03 (0.26 – 22.71)		
	Family member or friend with COVID-19	1.46 (0.44 – 5.05)		
Total Stressors	Total # of COVID-19 and lockdown related stressors	1.35 (1.11 –1.69)	0.93 (0.64 – 1.34)	0.686
HIV Treatment Stress	Patient reports concerns about possible disruptions in HIV care	11.21 (2.53 – 105.86)	8.90 (1.31 – 104.94)	0.024
Economic Stress	Reported loss of income since start of lockdown	1.61 (0.58 – 4.66)		
	HIV Care			
Disclosure	Patient has disclosed HIV status	1.16 (0.53 – 2.55)		
Care prior to COVID-19	Patient registered at an AIDS Center	0.49 (0.04 – 3.81)		
	Patient has been prescribed ART ever	1.54 (0.32 – 9.15)		
	Patient is currently prescribed ART	1.54 (0.33 – 9.15)		
ART Adherence	Patient has NOT missed a dose of ART in past 7 days	0.63 (0.11 – 2.97)		
HIV support	Someone supports patient's HIV treatment	2.87 (1.38 – 6.13)	2.40 (0.99 – 6.00)	0.054
Volunteer Interest	Patient is willing to provide peer support	1.54 (0.75 – 3.19)		
	Drug and Alcohol Use			
Drug Use	Illicit drug use during COVID-19 lockdown	20.45 (2.40 – 2677.81)	34.53 (3.02 – 4885.85)	0.002
Addiction	Diagnosis of substance use and/or alcohol use disorder	1.64 (0.72 – 3.81)		
Alcohol Use Disorder	No	Ref		
	Yes	2.37 (0.64 – 10.38)		
	Psychosocial			
Social Support	≤1 social supports	0.65 (0.25 – 1.62)		
Resilience	Low level of resilience	2.32 (1.11 – 4.96)	1.97 (0.77 – 5.04)	0.156
	Normal level of resilience	Ref	Ref	

Abbreviations: aOR = adjusted odds ratio, ART=antiretroviral therapy, SD=standard deviation

Supplementary Table S3. Full Bivariate and Multivariable Modeling: Correlates of having Generalized Anxiety Disorder

	General Characteristics	Bivariate OR (95% CI)	Multivariable aOR (95% CI)	p-value
Sex	Female	4.93 (2.25 – 11.47)	5.30 (2.16 – 14.30)	<0.001
	Male	Ref	Ref	
Age	Age of participant	1.03 (0.97 – 1.08)	1.02 (0.95 – 1.09)	0.537
Education	Completed High School	Ref		
	Attended Vocational Secondary School	0.89 (0.11 – 10.16)		
	Some Higher Education	0.49 (0.04 – 7.21)	--	
	Completed Higher Education	1.10 (0.13 – 12.86)		
Smartphone	Owns a smartphone	1.30 (0.57 – 3.12)		
Health	Chronic condition in addition to HIV	1.16 (0.52 – 2.65)		
Self-Isolation	Yes, by myself	Ref	Ref	
	Yes, with a partner/spouse/family member	0.92 (0.39 – 2.22)	0.92 0.33 – 2.53)	0.503
	No	0.27 (0.08 – 0.78)	0.64 (0.18 – 2.25)	
Covid-19 Exposure	Direct Exposure	1.11 (0.10 – 8.60)		
	Family member or friend with Covid-19	0.74 (0.17 – 2.55)		
Total Stressors	Total # of COVID-19 and lockdown related stressors	1.27 (1.04 – 1.56)	1.02 (0.79 – 1.30)	0.877
HIV Treatment Stress	Patient reports concerns about possible disruptions in HIV care	3.07 (1.44 – 6.69)	5.33 (1.22 – 28.45)	0.023
Economic Stress	Reported loss of income since start of lockdown	1.55 (0.53 – 4.36)		
Disclosure	Patient has disclosed HIV status	1.47 (0.65 – 3.49)		
Care prior to Covid-19	Patient registered at an AIDS Center	0.31 (0.03 – 2.43)		
	Patient has been prescribed ART ever	0.52 (0.11 – 2.57)		
	Patient is currently prescribed ART	1.61 (0.29 – 16.49)		
ART Adherence	Patient has NOT missed a dose of ART in past 7d	0.63 (0.11 – 2.97)		
HIV support	Has someone to help support patient with their HIV treatment	3.07 (1.44 – 6.69)	2.68 (1.07 – 6.95)	0.020
Volunteer Interest	Patient is willing to provide peer support	1.30 (0.62 – 2.79)		
Drug Use	Illicit drug use during Covid-19 lockdown	2.52 (0.59 – 11.78)		
Addiction	Diagnosis of substance use and/or alcohol use disorder	0.99 (0.41 – 2.31)		
Alcohol Use Disorder	No	Ref		
	Yes	1.56 (0.40 – 5.83)		
Social Support	≤1 social supports	0.87 (0.32 – 2.22)		
Resilience	Low level of resilience	2.34 (1.09 – 5.05)	1.91 (0.80 – 4.63)	0.134
	Normal level of resilience	Ref	Ref	

Supplementary Table S4. Stressors reported by OPWH during first COVID-19 Lockdown in Kyiv

Specific Stressors during lockdown	n (%)
Fear of getting infected with coronavirus	54 (43.9%)
Movement restriction	46 (37.4%)
No or few savings	35 (28.5%)
Inflation, rising prices for things	33 (26.8%)
Change of everyday social life	30 (24.4%)
Loved ones' health	23 (18.7%)
Receiving necessary healthcare services	20 (16.3%)
Barriers to treatment for a chronic condition	18 (14.6%)
Unemployment	16 (13.0%)
Barriers to HIV treatment	12 (9.8%)
Buying food, medicines, & other necessities	6 (4.9%)
Surveillance by authorities	5 (4.1%)

Supplementary Table S5. Peer Support Preferences of OPWH in Kyiv

Desired Characteristic		n (%)
	HIV positive	59 (48.0%)
	Concordant gender	14 (11.4%
	Similar age	7 (5.7%)
	Concordant sexual orientation	4 (3.3%)
	Expertise in medicine	53 (43.1%)
Willingness to provide Support	Yes	72 (58.5%)
	No	51 (41.55)