# FACTORS ASSOCIATED WITH RESILIENCE AMONG OLDER PEOPLE LIVING WITH HIV

## Background

Due to advances in antiretroviral treatment and associate longer survival, the population of people living with HIV (PLWH) is aging.<sup>1</sup> In the United States, 45% of this popula aged 50 years or older and this percentage is climbing.<sup>2</sup> Resilience, which can be viewed as a measure of stress co ability, is important in this population because it may help older PLWH to age successfully.<sup>3</sup> However, little is known resilience in older PLWH, and the factors that impact resilience.

# Methods

## Data collection

Data for this analysis were from the Aging with Dignity, H Optimism and Community (ADHOC) Study. ADHOC is an observational prospective, longitudinal cohort study that collects data on PLWH who are over age 50 using an onlir questionnaire from ten clinics across the U.S. The questionnaire includes information on sociodemographic activities and interests, HIV diagnosis and status, health c use and satisfaction, antiretroviral therapy, comorbid med conditions, health and well-being, substance use, and sex practices. Where possible, validated patient-reported out (PRO) measures are used. Data for the present analysis w collected between October 2017 and May 2019.

## Measuring resilience

Resilience was measured using the Connor-Davidson Resi Scale 2 (CD-RISC 2).<sup>3</sup> Scores ranged from 0 to 8, where high scores indicated greater resilience.

## Statistical Analysis

A cross-sectional analysis of ADHOC was performed on 1,051 older PLWH to determine associations between self-reported resilience and sociodemographic, health status, and clinical indicators. The impact of various factors on resilience was analyzed using bivariate analyses. Factors associated with resilience at *p* < 0.20 were included in a multiple linear regression model using backwards selection. Statistical significance was reached at two-tailed *p* < 0.05.

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	Results
ed	<i>Population characteristics</i> Of 1,051 participants, 896 (85%) were male and
ation is	was 59 years (SD 6.1 years) (Table 1). Scores on t ranged from 0-8, with a mean of 6.35 (SD 1.49).
oping p about lealth,	Association between resilience and various factors Factors positively associated with resilience in the analyses included age, education level, current ed income, being married or in a long-term relation close family and friends, and social support (all p addition, years since HIV diagnosis, being male, a were positively associated with resilience at the Factors negatively associated with resilience incl internalized stigma, depression, and anxiety (all p
t ne cs, care edical	Multivariable regression model In the multivariable model, current employment levels of social support were associated with gre whereas depression and anxiety were associated resilience ( <i>p</i> < 0.05) (Table 2). Higher income was associated with greater resilience ( <i>p</i> = 0.06).
xual tcome	Conclusions
vere	To increase resilience, some factors identified in socioeconomic status and employment) require wide interventions, while other factors (e.g., anx depression) are potentially treatable by medical
silience gher	of these factors represent potential targets for ir increase resilience among older PLWH.
	Disclosure. Laff Barka Datar Mazansan and Theorem

**Disclosure:** Jeff Berko, Peter Mazonson, and Theoren Loo have received research funding from ViiV Healthcare to develop ADHOC and collect data. Philip Grant has received research payments from ViiV healthcare. Andrew Zolopa, Frank Spinelli, and Duncan Short are employees of ViiV Healthcare.

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## the mean age the CD-RISC

## Drs

he bivariate employment, nship, number of *p* < 0.05). In and being gay p < 0.2 level. luded p < 0.05).

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this study (e.g., communityxiety and providers. All nterventions to

## Table 1. Demographic characteristics of ADHOC participants (n = 1,051)

Characteristic	
Gender	
Male	
Female Transgender/Other	
Age	
50-59	
60-64	
65+	
Ethnicity	
White	
Black	
Hispanic/Latino	
Sexual Orientation	
Gay or lesbian	
Straight	
Bisexual/other/do not wish to disclos	
Relationship Status	
In a relationship	
Single/divorced/widowed	
Income	
Less than \$50,000	
\$50,000 or more	
Viral Load	
Undetectable	
Detectable	

## Table 2. Multivariable regression results for factors significantly associated with resilience (adjusted $R^2 = 0.25$ , p < 0.001)

Characteristic	β	(SE β)	<i>p</i> -value
Currently employed	0.22	0.10	0.03
Income level	0.04	0.03	0.06
Interpersonal support	0.37	0.09	< 0.01
Depression	-0.13	0.04	< 0.01
Anxiety	-0.18	0.04	< 0.01



	Number (%) of cases
	896 (85) 143 (14) 12 (1)
	636 (61) 215 (20) 199 (19)
	727 (69) 212 (20) 92 (9)
se	788 (75) 182 (17) 81 (8)
	448 (43) 603 (57)
	555 (57) 415 (43)
	972 (94) 59 (6)



