Assessing Adverse Childhood Experiences (ACEs) in a HIV Primary Care Clinic: A Pilot Project in Quality Improvement

Priyanka Anand¹, Brittney Harrington BSN², Catherine Sayikanmi¹, Bryce Carter PhD¹, Abby Bronstein LSW³, Alexis Schwartz LSW³, David Metzger PhD¹, William R. Short MD, MPH¹, Jessie Torgersen MD, MHS, MSCE¹ ¹University of Pennsylvania Perelman School of Medicine, Philadelphia, PA²University of Pennsylvania School of Nursing, Philadelphia, PA³ Penn Medicine, Philadelphia, PA

BACKGROUND

- Adverse childhood experiences (ACEs) are common, and ≥4 ACEs are associated with negative health outcomes in adulthood¹
- History of childhood trauma has been associated with increased mortality in people living with HIV (PLWH)
- Screening for childhood trauma is not routinely performed in PLWH

METHODS

>Objectives:

1)Quantify the burden of childhood trauma, as measured by ACEs 2)Improve linkage to mental health care via referral

>Hypothesis: Prevalence of \geq 4 ACEs in PLWH is >21%, the prevalence reported in the general population of Philadelphia.²

Target population: PLWH attending appointments at an academic infectious disease clinic between October 2018 and February 2019

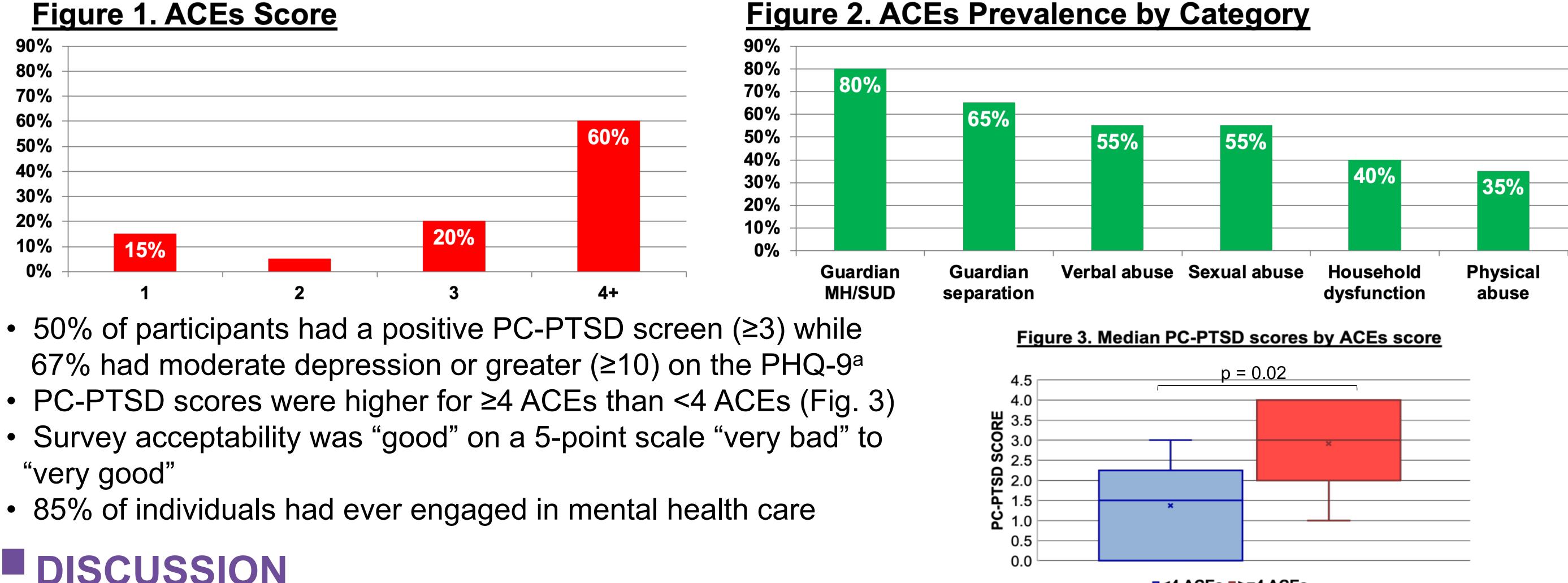
>Survey features:

1.ACEs 10-question survey³, patient health questionnaire (PHQ-9) and primary care post-traumatic stress disorder (PC-PTSD) score 2.Engagement with mental health services 3. Survey acceptability

•Participants with ≥4 ACEs were referred to on-site counselor or behavioral health specialist

•All participants were provided with a list of crisis resources

RESULTS



DISCUSSION

- opportunity for new linkage

Footnotes: ^aPHQ-9 completed for 9 participants References: 1) Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults: The Adverse Childhood Experiences (ACE) Study. American journal of preventive medicine, 14(4), 245-258. 2) Cronholm, P. F., Forke, C. M., Wade, R., Bair-Merritt, M. H., Davis, M., Harkins-Schwarz, M., Pachter, L.M., & Fein, J. A. (2015). Adverse childhood experiences: expanding the concept of adversity. American journal of preventive medicine, 49(3), 354-361. 3) Centers for Disease Control and Prevention (CDC). Behavioral Risk Factor Survey Questionnaire. Atlanta, Georgia: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, 2017.

• 20 participants completed surveys, including 75% men, 85% gay/bisexual, with median age of 44.5 years [35.8-52.2] Median ACEs score was 4.5 [IQR 3-7] with 60% reporting \geq 4 ACEs (Fig. 1) Guardian substance abuse/mental illness was most common; >50% reported verbal and sexual abuse (Fig. 2)

• Prevalence of \geq 4 ACEs among PLWH was <u>3 times higher</u> then that reported for the local general population • ACEs are not assessed in routine mental health screening tools, highlighting need for trauma-specific screening • ACEs survey was well-received by participants; however, most were actively engaged in mental health care, limiting

• Further understanding of the impact of childhood trauma on retention in care and control of HIV is needed



<4 ACEs >=4 ACEs