

No association of cART and HIV-related parameters with health-related quality of life (HR-QoL) of PLWH: insights from a multidimensional screening

Capodieci Stella, Zaccarelli Mauro, Latini Alessandra, Stingone Christof, Gianserra Laura, Donà Maria Gabriella, Giuliani Eugenia, Cafaro Valentina, Giuliani Massimo

HIV/AIDS Unit, San Gallicano Dermatological Institute IRCCS, Rome, Italy



BACKGROUND

Progress in HIV treatment has improved PLWH life expectancy and infection management. However, PLWH still face more health challenges, including somatic and psychological symptoms, such as anxiety, depression, and cognitive decline [1,2]

6 AIM

This study aims to identify early signs of health vulnerability (physical and psychological symptoms) through a comprehensive screening procedure for PLWH. The early detection of these symptoms may help optimize and improve PLWH retention in care

MATERIALS AND METHODS

Consecutive PLWH on ART attending the HIV/AIDS Unit of the San Gallicano Dermatological Institute (Rome, Italy) underwent the following screening procedure during routine access:

The Hospital Anxiety and Depression Scale (HADS) [3] to measure emotional vulnerability

The Patient Reported Outcomes measure (PROm) [4] to detect physical symptoms

The Italian version of Montreal Cognitive Assessment (MoCA) [5, 6] to assess cognitive functions

M STATISTICAL ANALYSIS

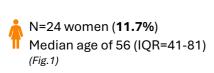
A binary regression analysis was conducted to identify factors associated with outcomes assessed through the screening, adjusting for clinical values, polypharmacy, current ART regimen and number of ART classes experienced

I RESULTS



206 PLWH were screened from January to August 2024

N=182 men (88.3%) Median age of 53 (IQR=44-71)



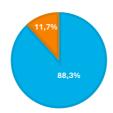


Fig.1 Sample composition

All participants were on cART and almost all of them had undetectable HIV-RNA (94.2%) and CD4+ counts >200 cells/mm3 (97.6%) (Fig.2)

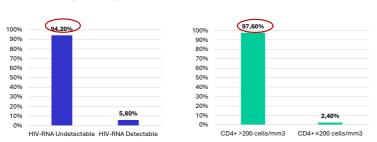
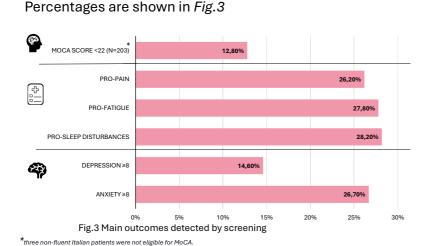


Fig. 2 Virological and immunological status (12.80% had a MoCA score below the Italian normative sample average of 22/30 [5,6]. Almost 30% of patients reported the following PRO symptoms at significant intensity.



Higher educational level was protective for cognitive decline [Adjusted Odds Ratio (AOR) =0.14; 95%CI=0.05-0.42] (Fig. 4)

Female gender was positively associated with pain [AOR=3.23; 95%CI=1.24-8.39] (Fig. 4)

Manager-level employment was protective for depression [AOR=0.25; 95%CI=0.07-0.89] (Fig. 4)

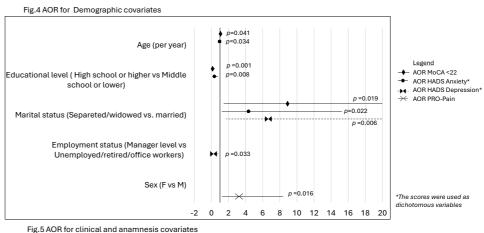
Polypharmacy was protective for cognitive decline [AOR=3.23; 95%CI=1.24-

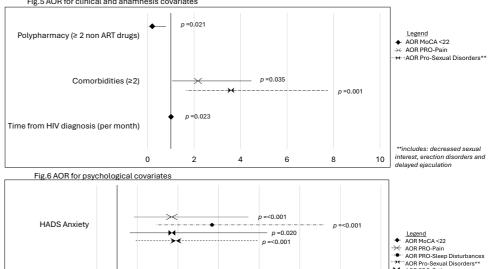
M Comorbidities were positively associated with pain [AOR=2.17; 95%CI=1.06-4.47] (Fig.5)

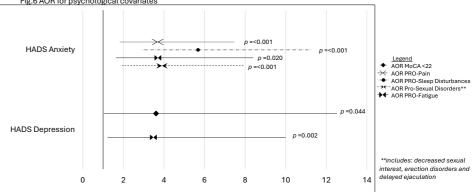
III Depression was positively associated with fatigue [AOR=3.48; 95%CI=1.22-10.00] and MoCA score under 22/30 [AOR=3.61; 95%CI=1.04-12.53] (Fig 6)

Anxiety predicted pain [AOR=3.69; 95%CI=1.82-7.47], fatigue [AOR=3.70; 95%CI=1.63-8.40], sleep [AOR=5.68; 95%CI=2.88-11.23] and sexual disorders [AOR=3.90; 95%CI=1.92-7.96] (Fig 6)

No associations between covariates, current ART and clinical, immunological, or virological parameters such as nadir or current CD4+ count, HIV RNA and clinical stage emerged







-@- CONCLUSIONS

Despite the great improvement of ART tolerability and the long-term-associated stability of disease, the relevant proportion of PLWH with psychological and cognitive issues highlights the need for further investigations and specific interventions for these conditions

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