



Oral Communication

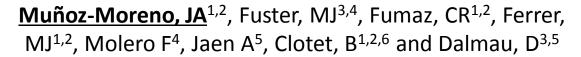
Cognitive Complaints in People with HIV in Spain: Prevalence and Related Variables



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Background:

- The prevalence of cognitive complaints in people with HIV in Spain is unknown to date.
- Few studies have addressed the existence of CC in people with HIV in Spain, therefore, its relationships with demographic, clinical or psychological variables are uncertain.
- Because there is a current need to know the characteristics of the clinical pattern of people with HIV and CC, we decided to conduct this investigation.





Methods (I):

- Exploratory, observational study.
- > Data collection from February 2011 to September 2011.
- > 4 hospitals and 10 NGOs participated.
- > CC were recorded, and demographic, clinical and psychological variables.
- > Descriptive and inferential tests were applied.





Methods (II):

> PARTICIPATING CENTERS:

4 Hospitals:	10 NGOs
 Hospital Universitari Germans Trias i Pujol (Barcelona) Hospital Clinico Valencia (Valencia) Hospital La Fe Valencia (Valencia) Hospital Peset Valencia (Valencia) 	- AMUVIH (Murcia) - ITXAROBIDE (País Vasco) - VIVIR EN POSITIVO (Oviedo) - AVACOS (Valencia) - GAIS POSITIUS (Barcelona) - OMSIDA (Zaragoza) - AMIGOS (Las Palmas) - COGAM (Madrid) - ENPOSITIVO.INFO





Methods (III):

- > VARIABLES: Demographic, clinical and psychological.
 - ✓ <u>Demographic variables</u> (*by self-report*):

Gender, age, marital status, sexual orientation, education level and infection route.

✓ Clinical variables (by self-report):

Time since HIV diagnosis, CD4 cell count, viral load and antiretroviral treatment.





Methods (IV):

✓ <u>Psychological variables</u>:

Cognitive complaints, by self-reported question (dichotomic variable: yes/no):

Do you feel you are experiencing regularly memory loss, slowness when planning, or paying attention?

Interference on daily functioning, by self-reported question (dichotomic variable: yes/no):

In case of cognitive changes, do you think they are interfering on your daily living or work performance?





Methods (V):

Specific areas for complaints, by self-reported check-list (7 areas):

Concentration, reasoning, memory, learning, planning, communication, hand movements, and other areas.

Depression and anxiety symptoms, and general psychological health:

- By the General Health Questionnaire (GHQ-12, Goldberg, 1979).
- 12 items, 4-point Likert scales, 3 dimensions.

Quality of life, by self-reported scales:

- Adapted from MOS-HIV Questionnaire (Wu et al, 1991).
- 4 items, 4-point Likert scales, 4 dimensions.





Methods (VI):

- > DATA ANALYSES: Descriptive and inferential tests.
- ✓ <u>Descriptive tests</u>:

Frequencies and percentages.

✓ Inferential tests:

Comparisons of proportions (Chi Square) and means (t tests).

Discriminant analysis (stepwise method).





Results (I):

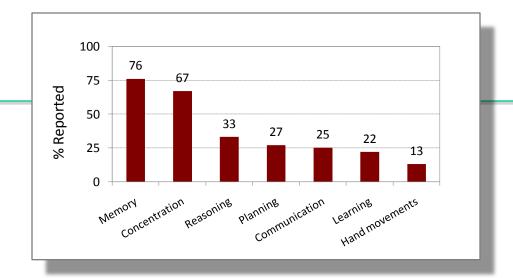
- 791 individuals with HIV participated in the study.
- Mostly middle-aged (mean: 43 years old), heterosexual (58%), Caucasian (75%), men (68%), infected by a sexual intercourse (57%).
- Most of them were on antiretroviral therapy (86%), with undetectable viral load (70%), >10 years since HIV diagnosis (median: 16 years; IQR: 9, 24), and with a median CD4 cell count of 536 cells/ μ L (IQR: 354, 697).





Results (II):

- 49% of the sample manifested CC.
- Memory and concentration were the areas most commonly reported as impaired (76% and 67%, respectively).
- 72% of subjects with CC declared association with interference on daily living or work performance.







Results (III):

- CC were mainly associated with a longer time with HIV (p = .03), lower CD4 cell counts (p < .001), and undetectable viral load (p = .03).
- Regarding the psychological variables, CC were linked to a worse general psychological health (p < .001), and also to higher depression (p < .001) and anxiety symptoms (p < .001).
- Subjects reporting CC showed worse quality of life, in particular with respect to the psychological dimension of quality of life (p < .001).





Results (IV):

- The discriminant analysis determined that the variables that classified more optimally people with CC were the following: depression symptoms, anxiety symptoms, older age, marital status (single), and lower education level (70.3% of correct classification).
- According to the psychological health, in those individuals with a better psychological status, the variables more relevant were: anxiety and lower education level (70.5% of correct classification).
- By contrast, in people with worse psychological health, the better classifying variables were: depression and older age (70.2% of correct classification).





Conclusions:

- ✓ The prevalence of CC is high in people with HIV in Spain (49%).
- ✓ CC are associated with a worse quality of life, but also to demographic and clinical variables, particularly depression and anxiety symptoms.
- ✓ Characteristics that optimally define people with CC in Spain are related to psychological health, and also to education level and age.





Caveats:



Study variables were assessed by self-report.



Restricted information on CC due to the dichotomic character of the variable (yes/no).



Neurocognitive performance was not evaluated in this study.





Acknowledgements:

Coordinator Centers:

- ♦ SEISIDA (Sociedad Española Interdisciplinar de SIDA).
 Madrid, Spain.

Participating Centers:

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- Hospital Clinico Valencia (Valencia)
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