



Late HIV diagnosis in a cohort from Buenos Aires: high mortality and burden of HIV-related disease during the first year

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Background

Late diagnosis of HIV represents a major challenge worldwide, and is associated with a **high burden of HIV-related disease**.

In Argentina, 43.8% of new HIV cases are late diagnosis, and 27.2% have advanced HIV disease with a 10% first-year mortality.

Aim of this study

- Describe the proportion of late diagnosis and advanced HIV disease in a cohort of people with new HIV diagnosis
- Describe demographic characteristics, clinical profile and first-year mortality among people living with HIV in a cohort with late diagnosis

Materials and methods

Retrospective cohort study

Setting: Hospital General de Agudos "Dr. Juan A Fernandez"

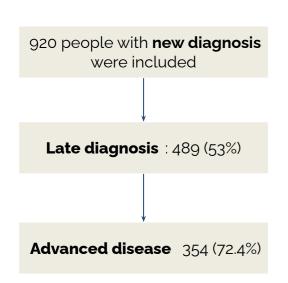
Population: people > 16 years of age with new confirmed HIV diagnosis

Period: between January 2016 - December 2022

Late diagnosis: CD4 count <350 cells/uL and/or events of WHO clinical stages 3-4

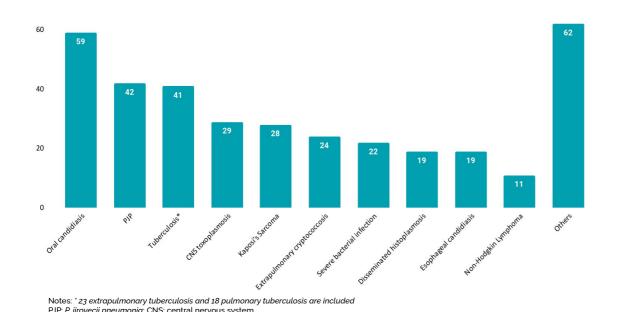
Advanced HIV disease: CD4 count <200 cells/uL and/or events of WHO clinical stages 3-4

Results



Baseline characteristics of the cohort of people with late diagnosis	N/median (%/Q1-Q3)		
	Total late diagnosis	Advanced HIV disease (AHD)	Late diagnosis without AHD
Gender			
Cis men	354 (72.4)	252 (71.2)	102 (75.5)
Cis women	105 (21.5)	76 (21.5)	29 (21.5)
Trans men	1 (0.2)	1 (0.3)	o (o)
Trans women	29 (5.9)	25 (7)	4 (3)
Age (years)	35 (28 - 45)	37 (29 - 46.75)	31 (25 - 40)
Plasma HIV RNA viral load (log10)	5,03 (4.41 - 5.63)	5,21 (4.67 - 5.68)	4,61 (4.03 - 5.13)
CD4 count (cell/uL)	138 (52.25 - 253.5)	94 (32.87 - 161.5)	293 (255.25 - 320)

Frequency of WHO 3-4 clinical events



Half of the people with late diagnosis (242) experienced WHO clinical stages 3-4 events

> 65,3% (158) had 1 event 26% (63) had 2 events 8,7% (21) had 3 or more

175 people (35.8%) with late diagnosis had at least one HIV-related hospitalization. Of these, 99% had advanced HIV disease

The overall mortality was 9.2% (45) and HIV-attributable mortality was 6.7% (33)

All deaths were recorded in individuals with advanced HIV disease

Conclusions

In our cohort, the majority of new HIV cases are late diagnosis and most of them present with advanced HIV disease, exceeding the proportions in national reports. There is evidence of an increase in morbidity and mortality associated with late diagnosis, with one-third of the population having at least one HIV-related hospitalization and a mortality rate close to 10% during the first year. These results highlight the importance of reinforcing strategies for improving timely access to HIV diagnosis and for the appropriate management of advanced HIV disease and its complications