



Primary HIV: clinical experience from an outpatient HIV clinic in Portugal

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Introduction

• The diagnosis of an early human immunodeficiency virus (HIV) infection may offer an opportunity to start antiretroviral therapy during the earliest stages of the disease, contributing to the recovery of the immune system and eventually reducing the risk of transmission to other individuals.

Objectives	 To estimate the prevalence of primary HIV infection in a <i>cohort</i> of patients with HIV that were naïve for antiretroviral treatment (ART); to describe the sociodemographic, clinical characteristics and outcome after starting ART in this particular group of patients.
Material & Methods	 Retrospective observational study. We selected all patients that were diagnosed with HIV and that started ART between January 2015 and December 2017 that were followed in our HIV outpatient clinic in Centro Hospitalar São João. We defined primary HIV infection in patients with detectable viremia and/or initial negative or indeterminate serologic test in patients with compatible symptoms of acute HIV infection.

Resu	lts

Patients characteristics n= 332			þ	Time since ARV (me	the diagnosis until the dian in days; interquar	beginning of tile range):
	With primary infection n= 28	Without primary infection n= 304		With primary infe	ction: 75 days (2	(52, 625)
Men	27 (96,4%)	227 (74,7%)		infection:		
Age (median; interquartile range)	35,7 (26,2-42,8)	38,8 (30,3-49,2)	0,03	Chosen ant a backbo	iretroviral scheme (3rd one of tenofovir/emtric	drug besides itabine or
Risk					abacavii/lailiivuullej	•
Heterosexual	10 (35,7%)	148 (48,7%)		Drug class	Primary infection	Without primary
Men who have sex with men (MSM)	18 (64,3%)	135 (44,4%)	0,034	Non-nucleoside reverse transcriptase	(n=28) 3 (10,7%)	infection (n= 304) 89 (29,3%)
Injection Drug Users	0 (0%)	12 (4,0%)		Innibitors Drotococ inhibitoro		
j				Protease inhibitors	1(3,6%)	
Unknown	0 (0%)	9 (3,0%)		Integrase inhibitors	24 (85,7%)	199 (65,5%)
Initial CD4+ count	434,5	386	0,069			p=0,077
(median; interquartile range)	(361,5-532,5)	(149,5-545)		Outcome after 1 month on ART:		
	Primary infection Without primary infection					

Median of the raise of CD4+ count			
(interquartile range)	210 (91; 304)	110 (28; 209)	p=0,013
Median CD4+ count at the end of the observation period (mean: 17)	830 (643: 943)	626 (395: 859)	
months)			p=0,002

Conclusion

- Patients with a primary HIV infection diagnosis were younger and more frequently MSM. We may speculate that a frequente periodic HIV
 screening test in these subgroup of individuals may be beneficial and will allow premature antiretroviral treatment.
- The beginning of ART on a very early stage of infection appears to be beneficial in the preservation and/or fast immunological recovery (evaluated by the CD4+ count), reinforcing this approach in these patients.

Bibliography:

1. Cohen M. S., Shaw G. M., McMichael A. J., Haynes B. F. (2011). Acute HIV-1 infection. N. Engl. J. Med. 364, 1943–1954. 10.1056/NEJMra1011874