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Additional Vaccination in PLWH: Adherence in a Central Hospital in Lisbon

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INTRODUCTION

Vaccination remains essential for protecting people living with HIV. Immunologic status generally does not contraindicate most vaccines. Advisable to vaccinate primarily during periods of viral suppression. In Portugal data on vaccination adherence among PLWH is scarce.

MATHERIAL AND METHODS

- Retrospective observational study
- Infectious Diseases Department: Hospital Santa Maria between April and June 2023
- 150 PLWH were included
- **Data collected** – demographics, infection-related, vaccination history

OBJECTIVES

This study aims to evaluate vaccination adherence and identify factors linked to adherence among PLWH in an urban centre in Portugal.

RESULTS

Characteristic	Low-Adherence	High-Adherence	p-value
Overall	105	45	
Gender - Male - Female	 84 (80.0%) 21 (20.0%)	 29 (64.4%) 16 (35.6%)	0.043
Age - < 50 years old - ≥ 50 years old	 70 (66.7%) 35 (33.3%)	 11 (24.4%) 34 (75.6%)	< 0.001
Country of origin - Portugal - Other	 70 (66.7%) 35 (33.3%)	 38 (84.4%) 7 (15.6%)	0.026
MSM - Yes - No	 59 (56.2%) 46 (43.8%)	 15 (33.3%) 30 (66.7%)	0.010
Initial CD4$^+$ - ≤ 200 - 201-500 - > 500	 31 (29.5%) 39 (37.1%) 35 (33.3%)	 14 (31.1%) 21 (46.7%) 10 (22.2%)	0.36
Current CD4$^+$ - ≤ 200 - 201-500 - > 500	 8 (7.6%) 36 (34.3%) 61 (58.1%)	 5 (11.1%) 10 (22.2%) 30 (66.7%)	0.31
Viral load - < 50c/mL - ≥ 50c/mL	 93 (88.6%) 12 (11.4%)	 42 (93.3%) 3 (6.7%)	0.37
Stage C - Yes - No	 16 (15.2%) 89 (84.8%)	 8 (17.8%) 37 (82.2%)	0.70

Table 1 – Demographic characteristics and laboratory results of the study population.

150 PLWH — ♂ 74.7% — ♀ 25.3% — 48.4 y — 72% — 97.3%

Factor	aOR	p-value	95% CI
Portugal	0.52	0.185	0.19 - 1.37
Age ≥ 50 anos	5.11	<0.001	2.15 - 12.15
MSM	1.58	0.278	0.70 - 3.60
Initial CD4$^+$ < 500	1.33	0.510	0.57 - 3.11
Viral load < 50c/mL	0.96	0.950	0.22 - 4.06

Table 2 - Factors influencing adherence to vaccination among study participants.
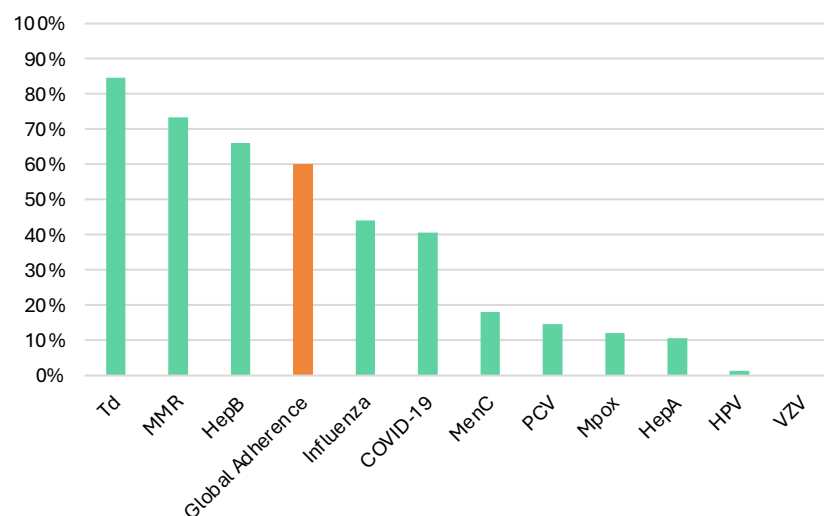

Figure 1 - Vaccination adherence.

CONCLUSION

Vaccination adherence among PLWH in this cohort is moderately high. Significant need to improve coverage for vacines such as Varicella-Zoster and HPV. Target strategies to enhance adherence should consider age-related factors. It is also important to focus on patient and physician education.