



BIC/TAF/FTC in treatment-naive PLWH: the experience of a centre

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Background: BIC/TAF/FTC is a first-line antiretroviral therapy (ARV) recommended in European and American guidelines, available for use in Portugal since July 2019. This report aims to characterize the population of treatment-naive PLWH that started BIC/TAF/FTC in an Infectious diseases hospital center in west Lisbon area, since it was available in July 2019 until December 2023, to include PWLH with at least 6 months of follow-up.

Materials and methods: Demographic, epidemiological, clinical, immunologic, and virologic data was compiled and analysed, from a total of 858 PLWH on treatment with BIC/TAF/FTC with regular follow-up in Egas Moniz Hospital: 708 (82,5%) were treatment-experienced and 150 (17,5%) were treatment-naive, and the following results relate to the second group.

Results: This population of **150** treatment-naive PLWH showed a male predominance and an important component of migrant patients, with **52%** from Portuguese-speaking countries around the world (n=78).



Males - n=114, 76%

Females - n=34, 22,7%

Transgender women - n=2, 1,3%

Median age of 38 years old



97,3% (n= 146) reported sexual transmission:
50% (n=75) MSM,
39,3% (n=59) MSW,

8% (n=12) MSM/W



6,7% (n=10) with HBV coinfection and 4% (n=6) with HCV coinfection



The 5 nationalities that predominate in this population: 38% portuguese (n=57), 28,7% brazilian (n=43), 8,7% bissau-guinean (n=13), 6,7% cape verdean (n=10) and 4,7% angolan (n=7)

The most common baseline comorbidities identified were cardiovascular risk factors in 36,7% (n=55) of patients. These encompassed lifestyle factors such as smoking (n=33, 22%) and obesity (n=3, 2%), as well as established conditions including hypertension (n=19, 12,7%), dyslipidemia (n=13, 8,7%) and diabetes mellitus (n=5, 3,3%).

The majority (n= 141, 94%) of these treatment-naïve population were diagnosed within the last three years, between 2021 and 2023. BIC/TAF/FTC was started mainly in patients in stage A of the CDC Classification (80%), with 11 patients in stage C (7,3%).





94% (n=141) were diagnosed between 2021 and 2023



97,3% (n=146) started
ARV between 2021 and
2023

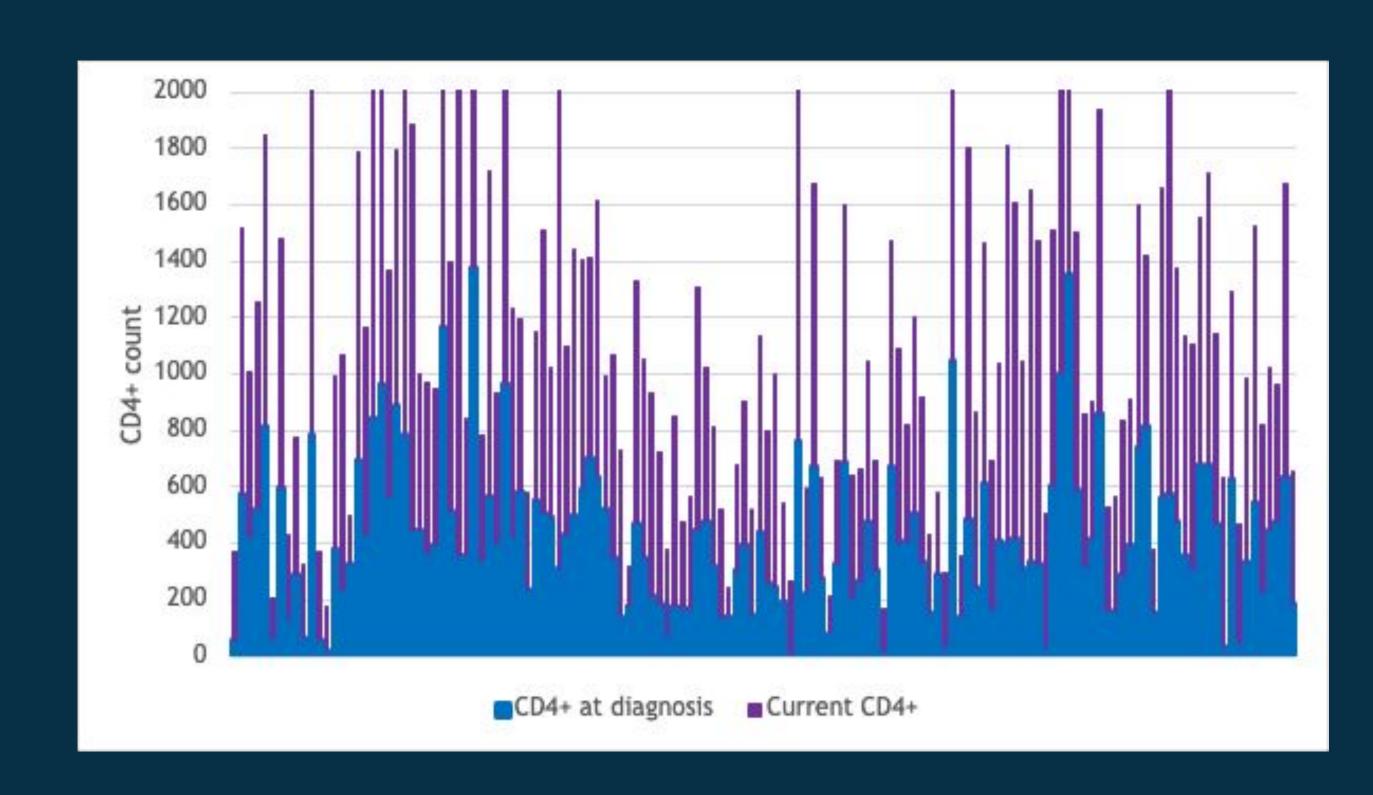
31% of all patients started ARV in a test and treat regimen (in the first 24h after the first appointment)



Despite 75 patients with viral load above 100.000 copies/ml (50%) at diagnosis, 98,7% achieved virological control, with an average of 21 months of treatment



5,3% (n= 8) PLWH were lost to follow-up and 6% (n= 9) discontinued ARV, mostly due to intolerance (n=3, 2 due to GI symptoms and 1 due to paresthesia) or weight gain (n=3).



There was an improvement in CD4+ cell counts with an average of 426 cells/ml at diagnosis and 725 cells/ml at the most recent evaluation (increase in 299 cells/ml) as corroborated by the graph, showing in blue CD4+ at diagnosis and in purple the most recent CD4+ as of December 2023

Conclusions: BIC/TAF/FTC is a highly effective therapy in immunologic improvement and virological suppression, recommended for treatment-naive PLWH. The data presented above is aligned with the current available literature, reinforcing the use of BIC/TAF/FTC as a reliable treatment option, and supporting its application in clinical practice. This population is still being monitored, and this project could provide a foundation for future efforts, including assessments of changes in weight and lipid profiles from a metabolic perspective.