











Implementation of a provincial PrEP clinic: analysis by public 📥 🔠 refundability and new HIV infection diagnoses in Latina



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Introduction

- The incidence of new HIV infections in Italy is 3.2 new cases per 100.000 habitants (EU incidence 5.1).
- UNAIDS goal is getting to zero in 2030; this objective is achievable through various strategies (TasP, PEP, PrEP,...).
- PrEP (with TDF/FTC) effectiveness is about 100%.
- The refundability of the drug makes treatment more accessible. In Italy TDF/FTC as PrEP is free of charge since 2023.

Methods

- Retrospective observational study (median follow up 48 weeks).
- Centre of care: Infectious Diseases Unit, S.M. Goretti Hospital, Sapienza University of Rome, Latina.
- Investigation performed: as indicated national treatment plan.
- Main population: PrEP users since December 2019 to December 2023.

Control population: People living with HIV (PLWH) with a new HIV diagnosis (2017-2018 and 2022-2023).

PrEP of free charge was available in our outpatient clinic since **October** 2023.





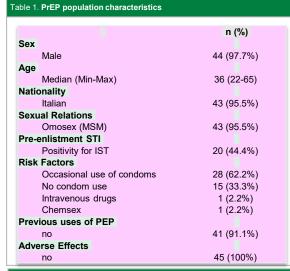


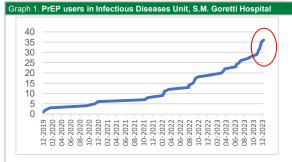
A flyer was available for all PrEP users.

Results

PrEP users population

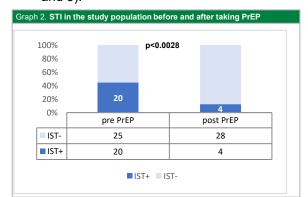
- PrEP users: 45; population characteristics in (Table 1). No seroconversion was observed (efficacy 100%); none major adverse effects.
- A constant access of new subjects, but a more rapid increase of users in last months (after October 2023) was seen (Graph 1).
- After refundability, daily intake increases compared to on-demand (16,6% vs 33,3% (p=0,05).

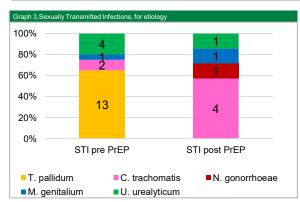




STI pre and post PrEP

During PrEP users, there was an unexpectedly decrease of STI (Graph 2 and 3).



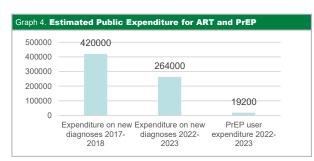


Impact of PrEP on new diagnoses

New PLWH biennium 2017-2018 are more than in biennium 2022-2023; main reduction is observed among men who have sex with men (MSM) that are the major PrEP users (table 2).

Table 2. PrEP and PLWH population characteristics			
	2017 - 2018	2022 - 2023	PrEP users
Sex	1	1	1
Male	30 (66.6%)	28 (77.7%)	44 (97.7%)
Female	15 (33.3%)	8 (22.2%)	1 (2.2%)
Età			
Min-Max	26-73	21-67	22-65
Average	46,7	41	38
Median	46	38	36
Nationality			
Italian	27 (60%)	19 (52.7%)	43 (95.5%)
Foreign	18 (40%)	17 (47.2%)	2 (4.4%)
Risk Factors			
Eterosex	25 (55.5%)	18 (50%)	2 (4.4%)
Omosex (MSM)	20 (66.6%)	13 (46.4%)	43 (97.7%)
TD	0	5 (13.8%)	0

The public expenditure only for ART for PLWH with new diagnosis for biennium 2017-2018 was € 420.000, and for biennium 2022-2023 was € 264.000. The expenditure for PrEP in biennium 2022-2023, assuming that everyone takes drugs daily (overestimating their consumption), was €19.200 (graph 4)



Conclusions

- In our experience, PrEP has an extremely high efficacy and without conseguent side
- After PrEP start, a lower rate of STI was registered than before.
- The refundability has impact on PrEP adhesion and on frequency of intake.
- The inversion of MSM rate in new HIV diagnosis could be associated to PrEP access, even if a deeper analysis and longer follow-up should be done.
- Public expenditure for PrEP is much lower than for ART. In terms of pharmacoeconomics, it is convenient to invest on PrEP.

References