







# Sexual habits and STDs occurrence in people attending a new PrEP clinic in Brescia

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## **Background**

- Despite established HIV prevention strategies, Brescia, remain one of the top five Italian cities with the higher incidence of new HIV infection. The offer of an alternative strategy for HIV prevention, among men who have sex with men (MSM), is crucial.
- The aim of this study is to analyze the profile of people attending the new PrEP outpatients service.

#### **Material and methods**

- This is a cross-sectional study with the aim to take a snapshot of the population belonging to the first 6 months opening of PrEP clinic of the Spedali Civili of Brescia from 29 Sep 23.
- We collected data about sexual habits and risk perception by an anonymous survey, moreover we recorded prevalence of sexually transmitted diseases (STDs), as well as intake pattern, adherence, adverse events, and discontinuation of PrEP with a quarterly routine clinical evaluation.

### **Results**

- Out of 76 subjects evaluated in the PrEP clinic, this study includes data of 42 male subjects (17 PrEP-experienced coming from other centers and 25 PrEP-naïve), 93% (n=39) homosexuals and 7% (n=3) bisexuals, with a median age of 32±7 yo.
- About sexual habits, 24% (n=10) report their first sexual intercourse before the age of 16, 64% (n=27) between the ages of 17-25 and 12% (n=5) over the age of 26.
- Most of the population (76%, n=32) is single while 24% is in an open relationship with a median of 2 sexual partners per week for both groups; 64% of the population (n=27) use dating apps (83% to plan a date easily and 17% for shyness) aimed in 81% of cases for sexual purposes.
- 32% (n=8) of naïve people start PrEP because of routinely condomless intercourses, while 68% (n=17) report that they use condom and want to start PrEP to have sex more peacefully; 56% (n=14) of PrEP-naïve people use condoms, 88% (n=15) of PrEP-experienced people have routinely condomless sex and only 12% (n=2) of them continue to use it
- About PrEP intake, 70% (n=29) take it daily and 30% (n=13) take it on demand. 80% (n=34) had no side effects, while 20% (n=8) had mild gastrointestinal disorders resolved within a week and only 1-person discontinued PrEP due to an allergic reaction. 92% (n=39) reported full adherence to PrEP, while 8% (n=3) timetable inaccuracies.
- Overall, 16 cases of STDs have been diagnosed in 12 subjects, 7 during screening at first visit and 5 at follow-up: 2 cases of isolated of latent syphilis, and remaining cases of gonorrhoea (n=4), chlamydia (n=5) and mycoplasma (n=5), managed by our STDs clinic successfully.

POPULATION			
Total	76 subjects (10	00% male subjects)	
• • •		EP experienced, 25 PrEP naïve)	
	93% (n 39) homosexual		
	7% (n 3) bisexu		
Age	32±7 yo		
SEXUALHABITS			
Medium age of first sexual intercourse			
≤16 yo		24% (n 10)	
17-19 yo		33% (n 14)	
20-25 yo		31% (n13)	
≥ 26 yo		12% (n 5)	
Medium partners per week			
≤1		69% (n 29)	
2-5	5	26% (n 11)	
>5		4 % (n 2)	
Use of cond			
	ndomless	55% (n 23)	
	metimes	7% (n 3)	
Alv	vays	38% (n 16)	
SOCIALHABITS	SOCIAL HABITS		
Relationship	Relationship		
Single		76% (n 32)	
	en relationship	24% (n 10)	
PrEP			
Intake use			
Da	•	70% (n 29)	
	demand	30% (n 13)	
	Adverse events		
	side effects	80% (n 34)	
	disorders	18% (n 7)	
Alle	ergy	2% (n 1)	
STDs			
Diagnosis of STIs (12 subjects)			
Screening		17% (n 7)	
Fol	low-up	12% (n 5)	
Type of IST	••		
Syp	ohilis	4% (n 2)	
Go	norrhoeae	10% (n 4)	
Ch	lamydia	12% (n 5)	
Му	coplasma	12% (n 5)	

## **Conclusions**

Our study shows a preliminary picture of PrEP population highlighting the importance of a safe HIV protection strategy among people with high-risk sexual habits. The benefits of PrEP program are not only to reduce HIV infection incidence, but also to screen and early treat STDs to reduce the incidence and prevalence as well in a population with high risk of STDs occurrence.