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Online self-sampling kits to screen multipartner MSM for HIV and other STIs: Participant characteristics and factors associated with kit use in the first three months of the MemoDepistages program, France, 2018

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Contribution :

DR & NL conceptualised and managed the study, HD, CD, TTLT, VI, JD & ET contributed to the study design, DR, HD, AG, EV, PV, BL & AP managed the data collection, DR cured, analysed and interpreted the data to wrote the first full draft of the manuscript, NL & HD provided intellectual input for interpretation and reviewed first draft of the manuscript.

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Online self-sampling kits to screen multipartner MSM for HIV and other STIs: Participant characteristics and factors associated with kit use in the first three months of the MemoDepistages program, France, 2018

Abstract (298 /300)

Objectives: In 2017, to reduce the proportion of MSM in the undiagnosed HIV population in France (38%), HIV screening is advise each three months and sexually transmitted infection (STI) screening is advise each year in multipartner men who have sex with men (MSM). Despite the range of testing solutions, over 40% of MSM were not tested for HIV and over 50% for STIs in the past year. Based on international experiments that offer screening solutions via online advertising, the French National Health Agency launched a program (MemoDepistages) to provide a free self-sampling kit (SSK) for HIV and STIs. This article analyses the sociodemographic and behavioral characteristics of MSM in terms of kit acceptance and sample return.

Methods: Participants registered for the program online after ordering a SSK. The study included men aged over 18 years, living in one of the four selected French regions, and willing to disclose their postal and email address; they had health insurance, acknowledged more than one male partner in the past year, indicated a seronegative or unknown HIV status, and were not taking medically prescribed preexposure prophylaxis drugs. Samples were collected by users and posted directly to the laboratory. Characteristics associated with kit acceptance and sample return were analyzed using logistic regression.

Results: Overall, 7,158 eligible MSM were offered to participate in the program, with 3,428 ordering the kit (47.9%) and 1,948 returning their sample, leading to a return rate of 56.8% and an overall participation rate of 27.2%. Acceptance and return rates were strongly associated with sociodemographic characteristics, mainly education level but not with behavioral characteristics. Non-college graduates had lower acceptance (44.2%) and return rates (47.7%).

Conclusion: The program rapidly recruited a large number of MSM. It removed geographical inequalities related to screening access.

Introduction

In France, the population of men who have sex with men (MSM) is the most affected by HIV and sexually transmitted infections (STIs). In 2017, they had the highest undiagnosed HIV prevalence in the country [1], while the number of STI cases in this population has increased for several years. To reverse this trend, the French Haute autorité de santé recommended quarterly HIV screening in high-risk MSM [2]. This strategy is based on a wide range of testing solutions: in addition to reimbursed laboratory tests and free testing in sexual health clinics, rapid HIV tests can be performed by family practitioners and trained non-governmental organizations. In September 2015, a blood-based HIV self-test was approved for over-the-counter sales, and among MSM tested in 2017, 5% used it for their last screening [3]. Despite this wide range of solutions, in 2017, only 53% of MSM were tested for HIV in the past 12 months, while very few (15%) had used three or more tests [4].

At the time of this study, no national guidelines were in place for a global approach to STI testing in MSM. However, the French Society of Dermatology recommended for sexually active MSM to be tested annually for syphilis, hepatitis C (HCV), as well as *Chlamydia trachomatis* (Ct) and *Neisseria gonorrhea* (Ng) in pharyngeal, urine, and anal samples [5]. Hepatitis B (HBV) should also be tested, with vaccination proposed depending on the result. STI testing options are limited in comparison to those for HIV. Tests are available at sexual health clinics or laboratories on prescription. Rapid testing performed by non-governmental organizations has existed for HCV since 2016. Currently, however, there is no self-managed solution for STI screening comparable to the HIV self-test in France. The screening rates for STIs are poorer than those for HIV. For example, in 2017, 46.4% of sexually active MSM were screened for HCV, 43.6% for syphilis, 36.3% for Ct, and 32.5% for Ng during the past 12 months (Personal communication, Eras Study [6])

To meet the new French guidelines and increase the frequency of HIV and STI testing among MSM, there is a need to develop novel approaches and engage MSM where testing was not already offered. Novel outreach design needs to be conceived for modern dating approaches such as dating apps. Using online communities, services can now offer self-sampling kits (SSKs) for HIV screening to key populations through distance facilities [7] Since 2016, the UK has provided a national home SSK service free of charge [8]. Several studies have analyzed the factors associated with HIV SSKs use, showing that users have a higher education level, better income, and are younger [7,9] than those who do not use it. Compared to heterosexual men, MSM also tend to be more willing to use such services [7,9-15]. Most SSKs propose blood sampling for HIV screening or local sampling for Ct/Ng screening. Only a few propose both types of sampling in the same kit to detect both viral and bacterial infections.[7]

Building on the results from these projects, the French public health agency developed the MemoDepistages program. With an 18-month follow-up, this program aims at increasing quarterly testing among multipartner MSM recruited trough dating apps and targeted websites. It offers a SSK for HIV, HBV, HCV, syphilis, Ct, and Ng screening. The SSK included a microtainer tube and two finger prick tests for blood collection, a uriswab device to collect urine, and two swabs and PCR-compatible medium for anal and pharyngeal samples. To our knowledge, this was the most comprehensive STI self-sampling kit described in international studies.

To date, few studies have explored the step-by-step process of screening using these services: participants first needs to subscribe to the service, perform the self-sampling, and then send it

to the laboratory. This article analyzes the different factors that impact the overall participation in the first screening round of the program.

Method

Study population

Men were recruited between April 11th, 2018 and June 10th, 2018 through targeted online advertisement, MSM sex apps and community websites. Geolocated advertisements redirected viewers to a 5-minute questionnaire investigating the sociodemographic and behavioral characteristics of MSM and verifying their eligibility. Eligibility criteria were as follows: males over 18 years, living in one of the four French regions with the highest HIV prevalence [1] (Auvergne Rhone Alpes, Ile de France, Occitanie Est, and Provence Alpes Côte d'Azur), and willing to disclose their postal and email address; they acknowledged more than one male partner during the past year, indicated a seronegative or unknown HIV status. Men using PrEP with prescription were excluded from the study because an appointment with their practitioner every three months was mandatory for PrEP prescription. They benefited from a STI screening during this consultation. However, men who used PrEP without any medical follow-up could be recruited. According to French regulation on biomedical research, only participants who declare to be affiliated to the national health insurance have been recruited. The protocol was approved by local authorities under the number ID RCB 2017-A00838-45 and ethics committee CPP-Ouest II-ANGERS.

Definitions and measures

Eligible men were offered to participate in the MemoDépistages program, in which case an STI SSK would be sent to them within 24 hours. Those who accepted to participate in the program and ordered the kit are referred to as subscribers. The <u>acceptance rate</u> was defined as the proportion of subscribers out of eligible men.

They collected their samples and sent them to the laboratory in a prepaid envelope. The men who sent at least one sample to the laboratory before September 1st, 2018 are referred to as participants. The <u>return rate</u> was thus defined as the proportion of participants out of subscribers.

The <u>overall participation rate</u> was defined as the proportion of participants among eligible men. (Fig.1)

Statistical analyses

Statistical analyses were performed using Stata v14¹. As data were collected online using an automatic completeness check, there were no missing data in the dataset. Sociodemographic and behavioral characteristics associated with men's acceptance and return of the kit were tested using a Khi² test. Since Stata v14 treats collinearity in models, and the number of events was more than 10 times the sum of all the terms of interest, variables with a p coefficient equal to or less than 0.2 were considered for integration and interpreted in the logistic regression. Possible interactions between independent characteristics were tested by including cross-product terms in the regression, with p<0.05 deemed to be indicative of statistical significance. Significant interaction terms included in the final model are presented in the tables.

¹ StataCorp. 2015. *Stata Statistical Software: Release 14*. College Station, TX: StataCorp LP.

Results

Over the 2 months of the recruitment period, 12,758 questionnaires were completed. The screening program and kit were offered to 7,158 eligible men (56.1%). The acceptance rate was 47.9% with 3,428 subscribers. Among them, 1,948 participants sent samples to the laboratories, leading to a return rate of 56.8% and an overall participation rate of 27.2%.

Description of eligible men

The main reason for ineligibility was not living in one of the four regions of the study (60.6%), followed by having only one male partner during the past year (16.9%).

The median age of eligible men was 31 years. (Table 1). A majority (68.7%) had a collegelevel education, lived in a large city of more than 100,000 inhabitants (52.1%), and considered their financial situation to be good or average (82.1%). In terms of sexual behavior, 68.1% of participants had more than five partners in the past year, and most had their last intercourse with a non-steady partner (78.5%). Nearly one out of four (21.2%) eligible men had never visited a gay meeting place (i.e., bar, club, sauna with or without sex, outdoor gay sex venue). In terms of HIV prevention, 44.1% did not use protection – i.e., condoms, pre-exposure prophylaxis, or treatment as prevention – during their last sexual intercourse, including 38.6% whose last intercourse was with a non-steady partner. Half the eligible men (49.3%) were tested for HIV in the last 12 months, half of them being tested several times. Screening for Ct and Ng was less frequent, with 29.1% of eligible participants reporting a urinal or urethral test, 13.0% a pharyngeal test, and 11.5% an anal test over the past year.

Acceptance rate and associated factors

The acceptance rate ranged from 41.3% to 51.7% depending on the sociodemographic and behavioural characteristics (Table 2).

Table 1. Sociodemographic characteristics of men offered to participate in the MemoDépistages program, 2018 (n=7,158)

Age	n	%
Median (interquartile range)		31 (25-42) years
Born in France		
Yes	6,549	91.5
No	609	8.5
Education		
High school or less	2,242	31.3
College or more	4,916	68.7
Perceived financial situation		
Good	3,342	46.7
Average	2,534	35.4
Bad	1,281	17.9
Area of residence		
Less than 2,000 inhabitants	380	5.3
Between 2,000 and 19,999 inhabitants	1,277	17.8
Between 20,000 and 99,999 inhabitants	1,775	24.8
More than 100,000 inhabitants	3,726	52.1
Region		
Paris area	4,220	59.0
Auvergne Rhône Alpes	1,525	21.3
Provence Alpes Côte d'Azur	867	12.1
Occitanie	546	7.6
Frequenting gay meeting places (with or wi	thout sex)	
Often	1,974	27.6
Sometimes	3,669	51.3
Never	1,515	21.2
Previous HIV tests		
Several times in the past 12 months	1.838	25.7
Once in the past 12 months	1,686	23.6
At least once more than 12 months ago	2,791	39.0
None	843	11.8
Previous Ct/Ng test in the past 12		
months ^{\$}		
Urinal/urethral	2.085	29.1
Pharyngeal	933	13.0
Anal	826	11.5
Number of male sexual partners in the past	12 months	
2-5	2.283	31.9
6-10	1,918	26.8
11-20	1,507	21.1
>20	1 450	20.3
Last partner	.,	
Steady	1.540	21.5
Casual	5,618	78.5
Protection at last intercourse ^{\$}	0,010	
Condom	3 817	53.3
Treatment as prevention	57	0.8
Pre-exposure prophylaxis	193	27
None	3 155	44 1
	5,.00	

*protection against HIV (i.e., condom, treatment as prevention, pre-exposure prophylaxis) \$ Total is different from 100%. Multiple answers could apply

Table 2. Association between sociodemographic and behavioral factors and overall participation in MemoDépistages first screening, 2018 (n=7,158)

	OVERALL PARTICIPATION						A	28)	RET							
	Ν	n	%	ORa	р	IC95%	n	%	Ora	р	IC95%	n	%	Ora	, p	IC95%
Age																
Under 30 years	3,082	897	29.1	Ref			1,570	50.9	Ref			897	57.1	Ref		
30 years and over	4,076	1,051	25.8	0.83	<10 -3	(0.74-0.92)	1,858	45.6	0.79	<10 -3	(0.72-0.88)	1,051	56.6	0.97	0.642	(0.84-1.12)
ρ			0.002					<10- 3					0.738			
Born in France								Ū								
Yes	6,549	1,766	27.0	Ref			3,131	47.8				1,766	56.4	Ref		
No	609	182	29.9	1.07	0.475	(0.89-1.29)	297	48.8				182	61.3	1.11	0.402	(0.87-1.43)
p			0.122					0.650					0.105			
Level of education																
High school or less	2,242	472	21.1	0.66	<10 -3	(0.58-0.75)	990	44.2	0.80	<10 -3	(0.72-0.89)	472	47.7	0.65	<10 -3	(0.56-0.76)
College or more	4,916	1,476	30.0	Ref			2,438	49.6	Ref			1,476	60.5	Ref		
n			<10-					<10-					<10-3			
P			3					3					\$10-0			
Perceived financial situation																
Good	3,342	928	27.8	Ref			1,538	46.0	Ref			928	60.3	Ref		
Average	2,534	709	28.0	1.05	0.408	(0.93-1.18)	1,243	49.1	1.13	0.023	(1.02-1.40)	709	57.0	0.94	0.421	(0.80-1.10)
Bad	1,281	311	24.3	0.91	0.229	(0.78-1.06)	647	50.5	1.22	0.005	(1.06-1.40)	311	48.1	0.70	<10 ⁻³	(0.58-0.86)
p			0.033					0.008					<10-3			
Area of residence																
Less than 2,000 inhabitants	380	96	25.3	0.99	0.938	(0.77-1.27)	157	41.3	0.81	0.097	(0.65-1.00)	96	61.2	1.30	0.143	(0.92-1.84)
Between 2,000 and 19,999 inhabitants	1,277	312	24.4	0.93	0.355	(0.80-1.08)	610	47.8	1.06	0.409	(0.93-1.21)	312	51.2	0.82	0.050	(0.68-1.00)
Between 20,000 and 99,999 inhabitants	1,775	464	26.1	0.97	0.632	(0.85-1.10)	847	47.7	1.04	0.550	(0.92-1.16)	464	54.8	0.90	0.207	(0.76-1.06)
More than 100,000 inhabitants	3,726	1,076	28.9	Ref			1,814	48.7	Ref			1,076	59.3	Ref		
p			0.008					0.056					0.002			
Region	4 000	4 400	<u> </u>	- (0.054	40.0	- (4 4 9 9	0	- ·		
Paris area	4,220	1,188	28.2	Ret	0.070	(0.00.4.00)	2,051	48.6	Ret	0 000	(0.04.4.40)	1,188	57.9	Ret	0.070	
Auvergne Rhone Alpes	1,525	440	28.9	1.13	0.076	(0.99-1.29)	/38	48.4	1.06	0.380	(0.94-1.19)	440	59.6	1.18	0.072	(0.56-0.76)
Provence Alpes Cote d'Azur	867	195	22.5	0.83	0.045	(0.70-0.99)	380	43.8	0.09	0.097	(0.76-1.02)	195	51.3	0.84	0.126	(0.99-1.41)
Occitanie	546	125	22.9	0.86	0.157	(0.69-1.06)	259	47.4	1.00	0.948	(0.84-1.21)	125	48.3	0.77	0.062	(0.67-1.05)

p			<10-					0.079					0.001			
Frequenting gav mosting places (with or)	without cov	d)	3													
Often	1 974	568	28.8	Ref			1 020	517	Ref			568	55 7			
Sometimes	3 669	1 022	20.0	0.94	0.633	(0 72-1 22)	1 763	48.1	0 77	0 028	(0 60-0 97)	1 022	58.0			
Never	1 515	358	23.6	0.34	0.000	(0.53-0.96)	645	42.6	0.65	0.020	$(0.50 \ 0.51)$	358	55.5			
D	1,010	000	0.001	0.72	0.020	(0.00 0.00)		<10-3	0.00	0.001	(0.00 0.01)	000	0.379			
Number of male sex partners in the past 1	2 months															
2-5	2,283	552	24.2	Ref			1,006	44.1	Ref			552	54.9	Ref		
6-10	1,918	551	28.7	1.20	0.230	(0.89-1.63)	973	50.7	1.21	0.173	(0.92-1.60)	551	56.6	1.02	0.828	(0.85-1.22)
11-20	1,507	451	29.9	1.06	0.706	(0.78-1.45)	735	48.8	0.84	0.229	(0.64-1.11)	451	61.4	1.29	0.013	(1.05-1.57)
>20	1,450	394	27.2	1.07	0.656	(0.80-1.43)	714	49.2	1.00	0.997	(0.77-1.30)	394	55.2	0.98	0.872	(0.80-1.20)
ρ			<10 -3					<10 -3			. ,		0.036			
Last partner																
Steady	1,540	416	27.0				749	48.6				416	55.5			
Casual	5,618	1,532	27.3				2,679	47.7				1,532	57.2			
p			0.841					0.508					0.422			
Protection at last intercourse																
No	3,156	832	26.4	Ref			1,520	48.2				832	54.7	Ref		
Yes	4,002	1,116	27.9	1.01	0.820	0.91-1.13	1,908	47.7				1,116	58.5	1.09	0.230	(0.95-1.25)
p			0.150					0.683					0.028			
Tested for HIV																
Several times in the past 12 months	1,838	508	27.6	0.86	0.045	(0.74-0.99)	875	47.6	0.87	0.040	(0.76-0.99)	508	58.1	0.91	0.330	(0.75-1.10)
Once in the past 12 months	1,686	507	30.1	Ref			849	50.4	Ref			507	59.7	Ref		
At least once, more than 12 months ago	2,791	733	26.3	0.87	0.042	(0.76-0.99)	1,342	48.2	0.92	0.204	(0.82-1.04)	733	54.6	0.87	0.128	(0.73-1.04)
Never	843	200	23.7	0.78	0.012	(0.64-0.95)	362	42.9	0.74	0.001	(0.62-0.88)	200	55.3	0.93	0.606	(0.72-1.21)
p			0.004					0.006					0.091			

In a multivariate analysis, the acceptance rate was strongly associated with sociodemographic data. It was lower in men aged over 30 years (ORa= 0.79, IC95% [0.72-0.88] vs less than 30 years) and in those who had not attended college (ORa=0.80; IC95% [0.72-0.89] vs college graduates). However, the acceptance rate was better in men declaring an average (ORa=1.13; IC95% [1.02-1.40]) or bad financial situation (ORa=1.22; IC95% [1.06-1.40]) in comparison to those with a good situation.

Considering the socialization patterns in the community, the men who visited gay meeting places signed up for the kit and the program less frequently than the others. The highest difference in the acceptance rate was observed between men who frequently visit gay meeting places (51.7%) and those who never did (42.6%, p<10-3) (ORa=0.65; IC95% [0.50-0.84]).

Acceptance was better in men who had sought HIV screening in the past. Men who had never been tested had a lower acceptance rate than those who were tested once in the past 12 months (ORa=0.74; IC95% [0.62-0.88]). Nevertheless, those who were tested several times in the past year also accepted the kit less often (ORa=0.87; IC95% [0.76-0.99]).

Return rate and associated factors.

The return rate varied from 47.7% to 61.4% among the subscribers.

In a multivariate analysis, the return rate was strongly associated with sociodemographic data. It was lower for men who had not attended college (ORa: 0.65; IC95% [0.56-0.76] vs college graduates) and for men who reported a difficult financial situation (ORa=0.7; IC95% [0.58-0.86]) compared to those with a good situation.

Men with a high number of partners in the past year (between 11 and 20) returned their kit more often than those with less than five partners (ORa=1.29; IC95% [1.05-1.57]). There was no association with preventive behaviors.

As a result of these associations, the overall participation rate was found to be strongly associated with being aged under 30 years (ORa=0.66; IC95% [0.58-0.75] for men aged 30 years and older) and having a college education (ORa=0.83; IC95% [0.74-0.92] for men without a college education). No association was made with the perceived financial situation. A lower overall participation was observed in the PACA region.

Never visiting gay meeting places and not being tested for HIV in over a year were associated with a decreased overall participation rate (respectively ORa=0.72; IC95% [0.53-0.76] and ORa=0.78; IC95% [0.64-0.95]). However, this association is weaker than that observed with sociodemographic data.

Discussion

Our results show that 47.9% of eligible men accepted to receive the self-sampling kit, with 56.8% of them returning at least one of their samples to the laboratory, thus leading to an overall participation rate of 27.2%. More than one out of four eligible MSM completed the self-sampling for HIV and STIs.

Few studies report the overall participation rate as defined in our study. Usually, evaluations focus mainly on the return rate without considering the acceptance rate. However, studies that

investigate different populations or use different recruitment processes may still be used to discuss our results. In the SH:24 experiment conducted over a period of 9 months and targeting people aged 16-30 years without consideration of their sexual orientation, the overall participation rate was 37.6% (388/1,031) after 6 weeks [16]. This experiment used a variety of recruitment methods: online as well as advertising displays in university bars and nightclubs and outreach methods. Our internet-only recruitment had a narrower scope but the MemoDepistages program was able to recruit a large number of high-risk MSM (n= 7,158) over a short period of time. The main reason for ineligibility was not living in an area of interest. This shows that the targeting worked efficiently and that the program was properly designed for this population.

Among men who were offered to participate in MemoDepistages, nearly half accepted. While the acceptance rate was lower than that found in a phone-administered health study (82.4% for MSM [15]), it is consistent with that observed for a Ct screening kit offered to French youths in the Chlamyweb study (around 50%) [16].

In our study, the recruitment period was 2 months. The return rate of 56.8% is consistent with the rates observed for different long-term SSK services. For example, in the Dean Street @Home Service, 55.2% of participants returned their kit during the 2 years of the evaluation [18]. In the evaluation of the Umbrella Health Service, 63.2% of MSM returned the SSK [7]. Calculated at least 1 year after implementation, this rate may have further improved over time. In the first year of the national UK HIV self-sampling program, the return rate was 52.7%, all populations combined, with the rate increasing to 60.4% after 3 years [8]. Consequently, the return rate calculated in our study may be seen as a baseline return rate for such a program in France.

In France, men living in a city with more than 50,000 inhabitants are usually tested more often than men from rural areas [20]. With the self-sampling kit, no differences were found according to the size of the place of residence. The online outreach and proposition of the program cancelled out the territorial inequality usually observed in screening. However, a lower overall participation rate has been observed in the Provence Alpes Cote d'Azur region. Our investigations revealed that this region has some specificities in terms of delivery services (different work organisation, more of non- standardized mailbox...). This result highlighted how the service could be impacted with local characteristics.

The acceptance process is crucial in defining the profile of participants, as it was strongly associated with individual sociodemographic characteristics. As previously found, a young age and high school diploma were associated with a better overall participation rate [7, 12]. Men aged under 30 years had a better acceptance rate in our study, which impacts their overall participation, even if they returned the kit at the same rate as older participants. Non-college graduates participated less in the program and also returned their sample less frequently, leading to the highest difference between groups in terms of the overall participation rate (9 points).

Similar associations were also found in a self-sampling study in the general population [17]. These characteristics were also associated with screening in the standard health services [4, 21]. Such individuals were more likely to take part in this new screening offer with the SSK. Nevertheless, despite the disappointing low overall participation rate observed in the population who had never been tested for HIV or had not been tested for more than one year,

the benefit in increasing the testing rate for HIV and STIs using SSK could still be attractive when compared to the traditional system, as previously shown in younger populations [19].

When looking at the behavioral characteristics, participants with 11 to 20 partners during the past year used the SSK more often after receiving it. This behavior corresponds to a global risk perception instead of a reaction to a recent risk, since no difference was observed in the acceptance or return of the SSK for people with and without protection against HIV during their last intercourse. This conclusion is reinforced when considering men's history of HIV testing. MSM who most frequently used the SSK were already familiar with HIV screening and had already been screened at least once during the last year, although the screening needs to be repeated to meet the national health guidelines. If considering the relation of men with gay meeting places, those who frequently visited those venues took advantage from the NGO's outreach and screening offer in those venues. Consequently, they already have a better access to screening and education about screening benefits. They order less, but when they did, they are more willing to return the samples.

Our study has several limitations. First, the campaign was advertised online and focused on providing SSKs for HIV & STI screening. We therefore did not recruit men who did not use the internet, and it is probable that those who clicked on the advertisement had a greater general interest in STIs. As a result, our sample is a convenience sample, and thus the results cannot be applied to the entire MSM population. As the recruitment only took place over 6 weeks, men who were resistant to change, whether in the form of new products or screening propositions, would not have shown their interest in the program. This short-term recruitment, proposing a new way to get screened, may have led to a selection of early adopters profiles. However, it mimics the design of several long-term interventions developed internationally, whose results could be used to inform policymakers on the potential of such initiatives in France.

Secondly, no information was available to us regarding the difficulties faced during the sampling. The reasons for non-return were not investigated, and we therefore cannot draw on any original data to explain the difference in the return rates between groups. However, qualitative study will investigate keys of the program success at the end of the program.

Finally, return rates were calculated using data available on 30 August 2018. After this date, some SSKs were still being returned. This choice led to a small underestimation of the return rate in our sample and may have slightly impacted the population characteristics.

Conclusion

The MemoDepistages study reached its main target of MSM frequently exposed to STIs: A high number of partners during the past 12 months and a frequent unprotected last intercourse. With half of them not being test during the last 12 months, this population needed to increase its screening frequency. Results of MemoDepistages regarding SSK used suggest that this approach may succeeded in removing the traditional geographical inequalities associated with screening access [20]. Studies have shown that populations with lower screening rates are those who benefit the most from such interventions in terms of rate increase [16, 19]. Several factors linked to screening in conventional settings [20] were also found in MemoDepistages, and further analysis on the effect of the intervention are needed to conclude on its global impact. Following this initial screening, participants will be able to choose whether they prefer to use the SSK or another screening option for routine quarterly testing over 18 months. An

observation of the various screening iterations will allow us to better understand how the SSK completes the current French screening strategies.

Key messages

- *STI Self sampling kit* (SSK) are more used when people already have a recent HIV screening experience
- Several factors linked to screening in conventional settings were also found associated with SSK
- It contribute to address the unequal access to testing across the country

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