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Background

- Novel strategies required to reduce undiagnosed HIV & end the HIV epidemic
- Self-testing for HIV provides an opportunity to reach populations not engaged with conventional services
- Availability of tests remains limited, costly, payment traceable

Aims

 To increase HIV testing by making self-test HIV kits available through digital vending machines in venues frequented by high risk groups in the wider community







HIV self-tests - digital vending machine

- Licensed for use in UK in 2015
- **No training costs**: clear user instructions; comprehensive linkage to care information for reactive testers
- Value for money £9.86 (c.f. £53.11 Sexual Health, no lab costs)
- Subsequent machines
- Availability '24/7' covers busy evening hours and weekends when staff usually unavailable or costly

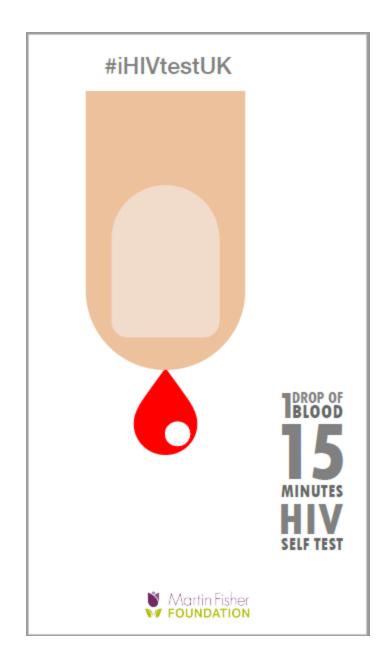


Co-created with Community Business

Clinic staff approached by sauna manager:

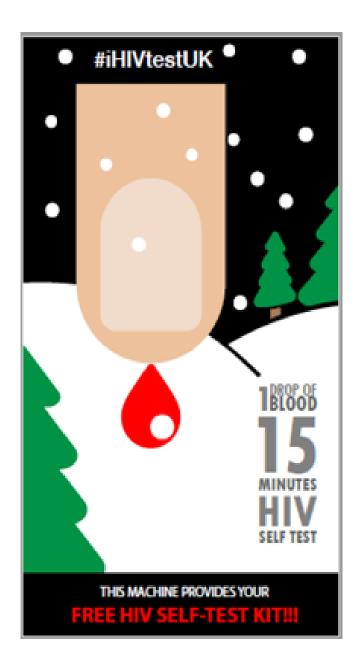
- ~400 MSM per week testing levels insufficient (Terrance Higgins Trust (THT) 6-8h/week)
- proportion clientele NOT engaging
- lack of anonymity seen as a barrier having to engage with outreach workers
- evidence of high risk behaviour, but poor recognition of individual HIV risk

















Digital vending machine

- BioSURE HIV self-tests: 3rd generation
- Wall mounted at eye level
- Touch screen
- Robust liquid proof secure (>300 machines, no incidents)
- Lifespan 'hundreds of thousands' of vends
- Little maintenance, can be done remotely
- Access website for live monitoring of sales, issues and epidemiological data
 - Age, gender, sexuality, testing history, Brighton and Hove resident

Machine in the exhibition room here today



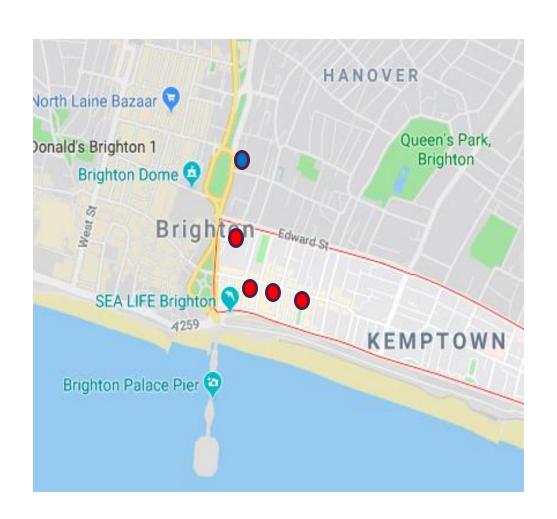


Installed Brighton Sauna June 17



Additional machines

- In July 2018, an additional four machines were installed in venues within the same community.
- Blue: Our original machine in Brighton Sauna, dispending free HIV self tests
- Red: Our additional 'paid-for' machines, dispensing HIV self tests for £9.99 per test.
 - Adult entertainment shop
 - LGBTQ support hub
 - Men only cruising bar
 - LGBTQ friendly pub and theatre





Evaluation: Jun 2017-May 2019

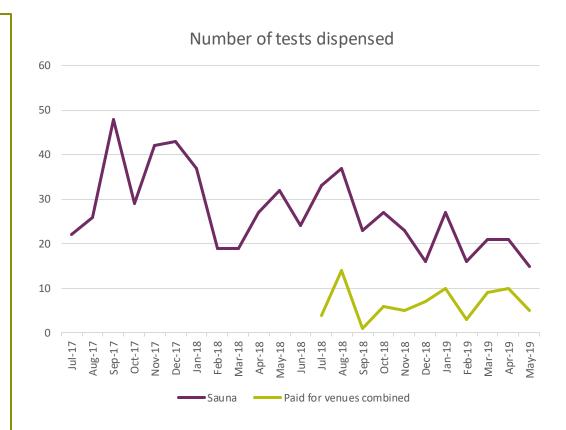
Total number of tests taken from vending machines n=713

Tests taken from free venue (sauna) (Jun 17 – May 19) (n=642)

(average 27.9 tests/month)

Compares to the 6 months prior to the project when 27 tests were performed by outreach workers (average 4.5 tests/month)

Three reactive results



Tests taken from 'paid for' venues (Jul 18 – May 19) (n=71) (average 1.8 tests/month/venue)



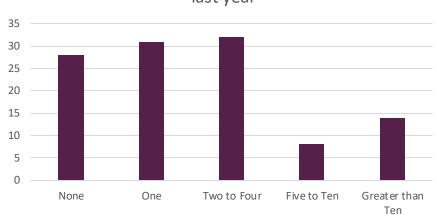
User evaluation: Jun 2017-May 2019

16% (n=112) of users responded to questionnaire

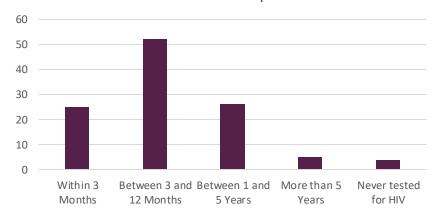
75% (n=84) of users had unprotected anal intercourse with a new or casual partner within the last year

66% (n=74) of users had taken a HIV test within the last year

Number of new or casual UPAI partner in the last year



Most recent HIV test prior to this



Qualitative interviews: acceptability & experience

23 interviews: 10 users of vending machine, 13 sauna clients

"I think this is the best idea ever. Especially in a gay sauna. I've seen what happens here so I know. So this is a perfect public place. It's practical isn't it."

Participant 6 (bisexual, age 53, never tested, about to marry.... female)

"It's great it promotes awareness.... it makes people start to think, 'Hey am I being safe today, am I taking risks that I don't need to take?' I just think it's a fantastic idea"

Participant 23, age 26, MSM, last test 4 months ago

Please see poster number 20261 for more information



Qualitative interviews - concerns

- Getting a reactive result in isolation
- What to do next following a reactive result and where to get a confirmatory test
- Who can I speak to straight away





What do I do now?

You need to attend a sexual health clinic for a confirmatory blood test. The nearest is Brighton Sexual Health & Contraception service www.brightonsexualhealth.com

or call us on **01273 664716** as soon as possible.



What if I don't live in Brighton?

You can see where your nearest sexual health clinic is by visiting https://sxt.org.uk/



What else should I do?

Until you see us it's important to avoid the possibility of transmitting any infection to others through sexual contact.



#iHIVtestUK



Qualitative interviews - concerns

- People may not attend clinic for comprehensive STI screening (displacement)
- Limitation to HIV testing alone, concern about other STIs



WHAT TO DO AFTER YOU HAVE TESTED?

The Martin Fisher Foundation is working Towards Zero new HIV infections in Brighton & Hove.



NEGATIVE

A negative result is reassuring **but remember,** very recent HIV infection (last 3 months), may not be detected by this test. You should re-test every 3 months if you have ongoing risk of acquiring HIV.



Next steps - suggestions for roll out?

- "Everywhere it's quick, easy and convenient"
- "Colleges, public toilets, doctors surgeries"
- "Other gay venues"
- "Saunas, gay saunas everywhere"
- South East London Poster 21586
- Two month period of free tests in 'paid-for' venues





Summary

- 1st time a digital vending machine used to deliver HIV self-tests
- Collaboration with designers / target communities ensured user-centered approach
- Highly acceptable, increased targeted HIV testing
- Develop machines additional STI testing facility
- Future research will evaluate use in other populations and ensure robust linkage to care
- Assess the impact of cost on uptake of HIV self-tests from digital vending machines



Acknowledgements

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