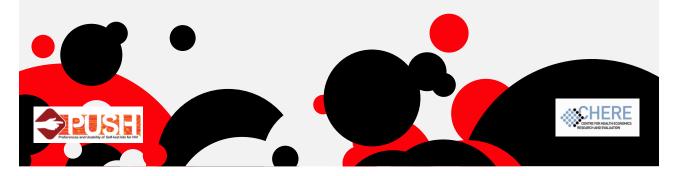
What Australian gay and bisexual men want from HIV self-test kits: a discrete choice experiment (DCE)



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SETTING THE SCENE

Background & Aim

- HIV disproportionately affects gay and bisexual men (GBM) in Australia
- HIV self-testing (HIVST) can increase HIV testing among GBM (Jamil et al, HIV Lancet, 2017; 4(6))
- Little is known about how HIV self-testing (HIVST) should be implemented in Australia.
 - Aim: to assess preferences of Australian GBM for HIVST relative to other testing methods, and for how to access HIVST.





Background – A DCE?

- Choices e.g. in care, reveal how we trade-off between characteristics of care e.g. test accuracy, information, care access, modality.
- DCEs a survey method from marketing, environmental and health economics - systematically measure those trade-offs.
- Allow us to test what people prefer before something has come into us e.g. HIVST kits.
- Results can be used to predict uptake ("choice") or to assess value for money.



HOW WE DID IT

Methods

Recruitment:

- Individuals, 18 yrs and over
- Phase I: Weekly GRINDR advertisements over 6 weeks in Jan 2018 (with link to online survey).
- Phase I: Recruitment via sexual health clinics (ongoing).

Two survey versions:

- Choosing between methods of testing.
- Choosing between self-testing kits.
- Respondents randomised to version.
- 16 scenarios per respondents.





HOW WE DID IT

DCE 1: HIV Testing

Attribute	Levels	
Cost:	Free; \$20; \$40; \$60	
Speed of results:	1 minute; 20 minutes; 1 day; 3 days	
Window period (time it takes after a risky event before	4 weeks; 6 weeks; 12 weeks;	
test shows if you've been infected):		
Mode of test:	Venepuncture; oral swab; finger prick	
% of tests that are correct:	92%; 95%; 99%; 99.9%	
Specimen collected by:	Healthcare worker; yourself; peer	

DCE 2: Self-Testing Kits

Levels
Free; \$20; \$40; \$60
Order online; vending machine; pharmacy shelf; pharmacy staff; medical
clinic; comm. org; sex-on prem.ven.
Large plain; large branded; small plain; small branded.
Written leaflet; online video; online chat.





SELF TEST KIT CHOICE SET

Which of these two options would you prefer?

	HIV self-testing Option 1	HIV self-testing Option 2
Information on how to use the kit	Written instruction leaflet (text and pictures)	Option of having an online chat with peer
Packaging	A small branded package (size of egg carton containing 2 eggs)	A small plain package (size of egg carton containing 2 eggs)
Access	Order online with kits mailed to your home	Kits available from staff of a medical clinic
Cost (out of pocket)	\$60	\$40
Which would you choose?		0

If it was available, would you choose the option you preferred above over your current approach to HIV testing?

Select only one answer

) Yes



CENTRE FOR HEALTH ECONOMICS RESEARCH AND EVALUATION

Methods

Analysed choice taking account of repeated responses across individuals, treating attributes as "random":

• Allows for the extent to which an attribute matters to differ across individuals.

Explored importance of different respondent characteristics in driving preferences:

• Frequent vs infrequent testing (more than 2 years prior);

- Migrants (arriving in Australia last five years);
- Number of partners in the last six months (>1).





WHAT WE FOUND

Demographics (n=1,002)

	n (%)
Mean age in years (sd)	36.8 (12.0)
Sex at birth	
- Male	996 (99.4)
- Female	6 (0.6)
Last HIV test	
- Within last 2 years	784 (78.2)
- More than 2 years ago	76 (7.6)
- Never tested	142 (14.2)
Gender Identity	N= 769
- Male	754 (98.1)
- Female	1 (0.1)
- Non-binary	14 (1.4)
Country of birth	
- Australia	683 (68.2)
- Outside Australia	319 (31.8)
Highest level of education	
- Trade certificate/diploma/TAFE	229 (22.9)
- University	277 (55.0)
Preferences and Usability of Bell Lett Markov Fred	

	n (%)
Sexual identity	
- Gay/homosexual	752 (75.1)
- Bisexual	210 (21.0)
- Straight/heterosexual	16 (1.6)
- Queer	14 (1.4)
- Other	10 (1.0)
Ave. no. men who you had anal sex in	16.5 (316.0)
the last 6 months (sd)	
Median no. men who you had anal sex	3 (1-6)
in the last 6 months (IQR)	
Group sex in the last 6 months	
- Every week	13 (1.3)
- Monthly	30 (3.0)
- No more than 5 times	167 (16.7)
- Once	147 (14.7)
- Never	645 (64.4)



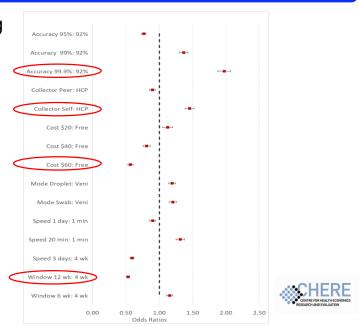
WHAT WE FOUND

All factors matter in choosing a testing method.

Further testing showed differences across resp.

- Migrants more sensitive to costs (cheaper better).
- Infrequent testers more sensitive to window period (able to detect infection sooner).

Preferences and Ukability of Self-Lett Kills for HeV



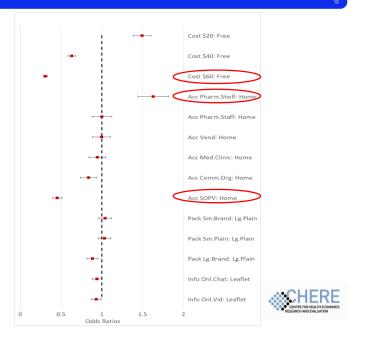
WHAT WE FOUND

Some level of each factors matter to choice of test kit.

Further testing showed differences across resp.

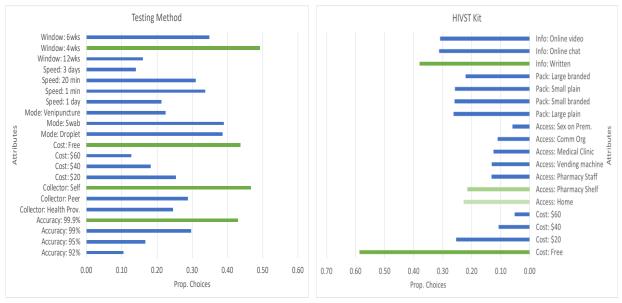
- Infrequent testers sensitive to where kits available (favour vending machine, avoid medical centre)
- Those with many partners sensitive to where kits available (avoid pharmacy).





WHAT WE FOUND

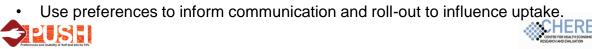
Impact on choices



WHAT DO WE MAKE OF IT?

Conclusion

- In choice of testing method prefer test that has shorter window period, self-administered, is more accurate and cheaper (free).
- In choice of HIVST kit prefer kits that can be accessed more privately and cheaply (free).
 - Observe differences across individuals migrants more sensitive to costs, infrequent testers and those with many partners more sensitive to where HIVST are available.
- Information from a large (n=1,002) sample on preferences:
- Phase II from sexual health clinic recruitment will add to data.



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Individuals who completed the survey!







