MSHC
MELBOURNE SEXUAL HEALTH CENTRE

Support systems for HIV self-testing: A scoping review

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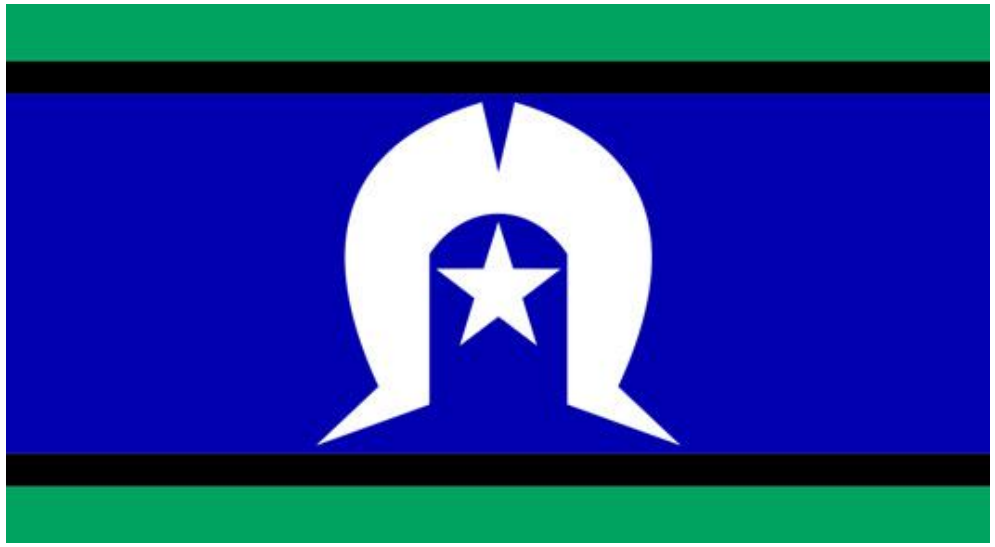
Acknowledgement of Country



Conflicts of interest

- None to declare

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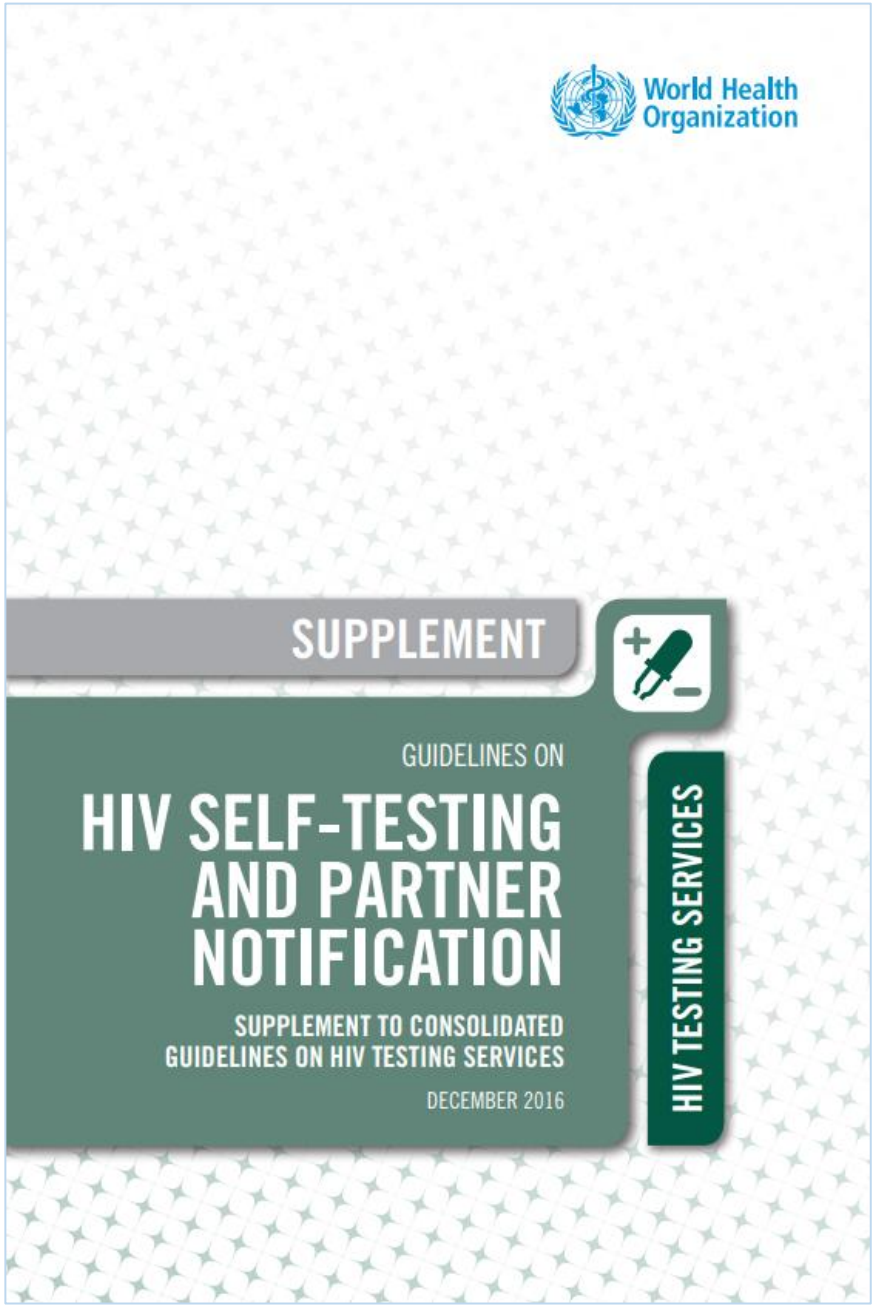
- Jason Ong

Background

RACGP (2021), LSHTM (2021)



Background

Use the test

Interpret the result

Be linked to services

RACGP (2021), LSHTM (2021), WHO 2018, UTS (2018)

Aim

To qualitatively synthesise the types of **systems supporting**…

Use the test

Interpret the result

Be linked to services

RACGP (2021), LSHTM (2021), WHO 2018, UTS (2018)

Methods

- Global scoping review
- Five databases*
- Primary articles relating to HIV self-testing
- Publications Jan 2000 to Mar 2022

*CINAHL Complete, Embase, MEDLINE, Scopus, Web of Science

Results

14,385 titles and abstracts screened

1,019 reviewed in full text

315 included for analysis

Results

World region	*n*	%
Asia-Pacific	47	14.9%
Europe	20	6.3%
Latin America and Caribbean	13	4.1%
Middle-East and North Africa	1	0.3%
North America	64	20.3%
Sub-Saharan Africa	176	55.9%

Country income level	*n*	%
High	91	28.9%
Upper-middle	81	25.7%
Lower-middle	72	22.9%
Low	80	25.4%

Results

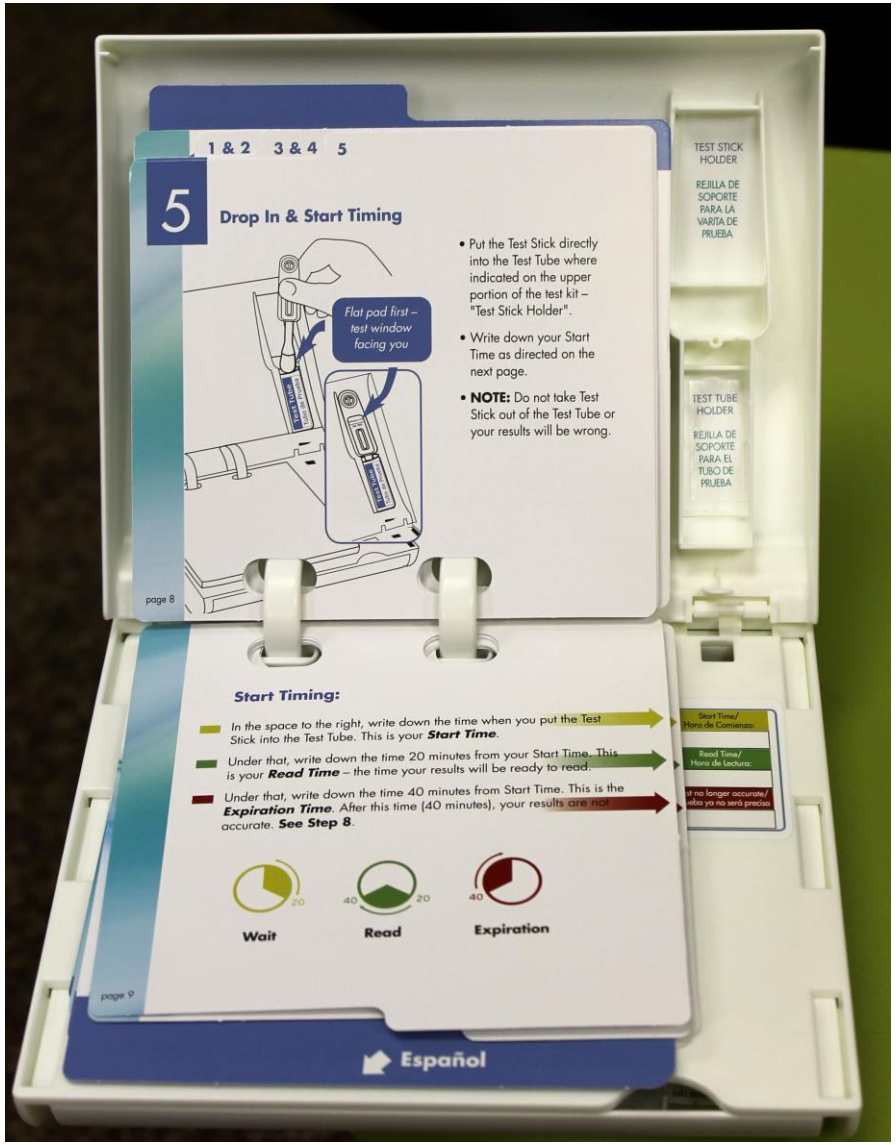
Year of publication	*n*	%
2021 to 2022	106	33.7%
2016 to 2020	182	57.8%
2011 to 2015	26	8.3%
2000 to 2010	1	0.3%

Study population	*n*	%
Men who have sex with men	110	34.9%
General population	70	22.2%
Female sex workers	35	11.1%
Pregnant or antenatal	20	6.3%
Young people	16	5.1%
Adolescent girls & young women	8	2.5%
People who use drugs	7	2.2%
Other*	87	27.6%

*sexual partners, truck drivers, cultural minorities, transgender people, etc.

Test usage | Interpret results | Post-test linkage

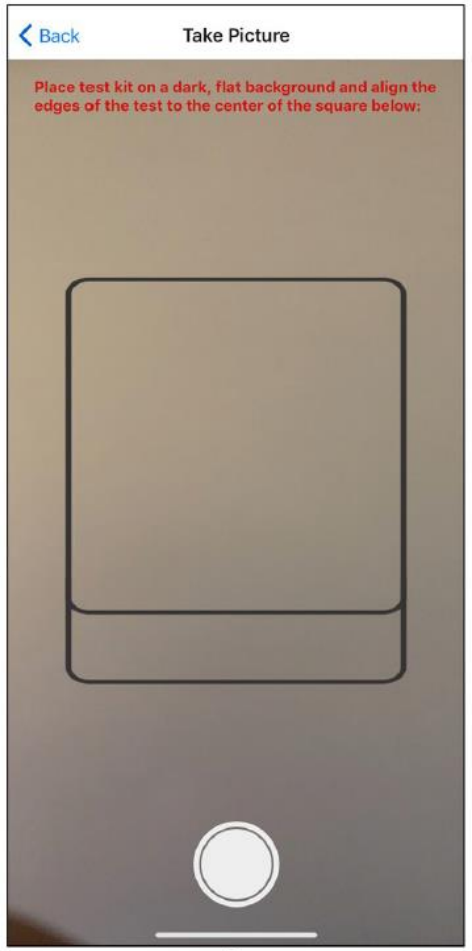
- 280 (89%) articles = 640 support systems
- Most common
  - Pictorial instructions (n=120, 19%)
  - In-person demonstrations (n=100, 16%)
  - In-person assistance (n=86, 13%)
- Other
  - Smartphone apps (n=11, 2%)
  - Live video conferencing (n=11, 2%)



Dallas Voice (2012)

Test usage | **Interpret results** | Post-test linkage

- 137 (43%) articles = 198 support systems
- Most common
  - Pictorial instructions (n=65, 33%)
- Other
  - Automated smartphone apps (n=7, 4%)



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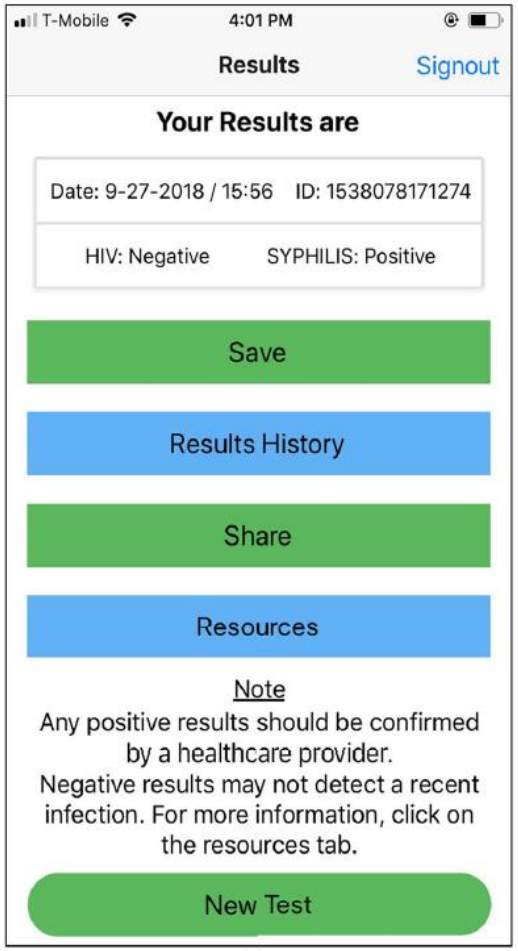

B

Balán *et al.* (2020)

Test usage | Interpret results | **Post-test linkage**

- 265 (84%) articles = 1,137 support systems
- Most common
  - in-person referrals/counselling (n=145, 13%)
  - written referrals/counselling (n=80, 7%)
  - phone helplines staffed by professionals (n=71, 6%)
- Other
  - Home visits (n=15, 1%)
  - Live video conferencing (n=23, 2%)
  - Bluetooth sensor technology (n=15, 1%)

Wray *et al.* (2020)

Conclusion

Key points

- Wide diversity of support systems
- Digital approaches are promising

Future directions

- Data of effectiveness
- Support systems in context

Thank you

Presented by

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References for images used in this presentation

- Balán *et al.* (2020), *AIDS Behav*, https://doi.org/10.1007/s10461-019-02718-y
- Dallas Voice 2012, https://dallasvoice.com/oraquick-home-hiv-test-sale/
- LSHTM 2021, https://www.lshtm.ac.uk/newsevents/news/2021/self-testing-will-be-critical-part-reaching-hiv-elimination-targets
- RACGP 2021, https://www1.racgp.org.au/newsgp/clinical/hiv-self-tests-to-be-sold-in-pharmacies
- UTS 2018, https://www.uts.edu.au/about/graduate-school-health/news/research-help-clients-hiv-maintain-their-treatment
- WHO 2018, https://www.afro.who.int/news/self-testing-hiv-getting-high-marks-zimbabwe
- Wray *et al. (*2020), *Trials,* https://doi.org/10.1186/s13063-020-04554-1