

## Supplementary Material

### **A typology of HIV self-testing support systems: a scoping review**

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## Supplementary Material File S1. Search strategy.

Five databases were searched by AT in March 2022. Our search dates ranged from 2000 to March 2022.

Databases	Database platform	Dates of database coverage	Date searched	Number of hits
CINAHL Complete	EBSCOhost	up to Mar 11, 2022	Mar 11, 2022	2151
Embase Classic+Embase	Ovid	1947 to Mar 08, 2022	Mar 09, 2022	6775
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations and Daily	Ovid	1946 to Mar 08, 2022	Mar 09, 2022	3346
Scopus	Scopus	up to Mar 10, 2022	Mar 10, 2022	6908
Web of Science	Web of Science	up to Mar 11, 2022	Mar 11, 2022	6732

The detailed search strategies are provided below. Our search strategy used terms related to the overarching themes of (1) HIV and (2) self-testing, which were adapted for each database.

Scopus		
#	Term	# hits
1	TITLE-ABS-KEY ( "hiv infection*" OR hiv OR hiv1 OR hiv2 OR hiv-1 OR hiv-2 OR "human immunodeficiency virus" OR "human immunodeficiency virus" OR "human immunodeficiency virus" OR "human immune-deficiency virus" OR ( "human immun*" W/3 "deficiency virus" ) OR "acquired immunodeficiency syndrome" OR "acquired immunodeficiency syndrome" OR "acquired immuno-deficiency syndrome" OR "acquired immune-deficiency syndrome" OR ( "acquired immun*" W/3 "deficiency syndrome" ) )	554,310
2	TITLE-ABS-KEY ( ( sample W/1 collect* ) OR ( "dried blood spot*" W/3 ( home* OR remote OR personal OR self* ) ) OR fingerstick OR finger-stick OR fingerprick OR finger-prick OR ( alternative W/3 test* ) OR ( option* W/1 test* ) OR ( ( home* OR self* OR mail* ) W/3 ( collect* OR sampl* OR specimen* OR test* OR kit OR swab* ) ) OR ( ( oral OR saliva ) W/3 ( home* OR remote OR personal OR self* ) ) OR ( ( hiv W/2 antibod* ) AND ( ( home* OR remote OR personal OR self* ) W/3 ( test* OR collect* ) ) ) OR ( serolog* AND ( ( home* OR remote OR personal OR self* ) W/3 ( test* OR collect* ) ) ) )	427,336
3	#1 AND #2	7,939
4	Pubyear > 1999 AND Pubyear < 2023	6,908

Web of Science		
#	Term	# hits
1	TS=( "HIV infection*" or HIV or hiv1 or hiv2 or hiv-1 or hiv-2 or "human immunodeficiency virus" or "human immunodeficiency virus" or "human immuno-deficiency virus" or "human immune-deficiency virus" or ( "human immun*" NEAR/3 "deficiency virus" ) or "acquired immunodeficiency syndrome" or "acquired immunodeficiency syndrome" or "acquired immuno-deficiency syndrome" or "acquired immune-deficiency syndrome" or ( "acquired immun*" NEAR/3 "deficiency syndrome" ) )	452,597
2	TS=((sample NEAR/1 collect*) or ("dried blood spot*" NEAR/3 (home* or remote or personal or self*)) or fingerstick or finger-stick or fingerprick or finger-prick or (alternative NEAR/3 test*) or (option* NEAR/1 test*) or ((Home* or self* or mail*) NEAR/3 (collect* or sampl* or specimen* or test* or kit or swab*)) or ((oral or saliva) NEAR/3 (home* or remote or personal or self*)) or ((HIV NEAR/2 antibod*) and ((home* or remote or personal or self*) NEAR/3 (test* or collect*))) or (serolog* and ((home* or remote or personal or self*) NEAR/3 (test* or collect*))))	337,720
3	#1 AND #2	7,311
4	Pubyear > 1999 AND Pubyear < 2023	6,752

CINAHL Complete (EBSCOhost)		
#	Term	# hits
1	(MH "HIV-Positive Persons+")	16,672
2	(MH "Human Immunodeficiency Virus+")	10,885
3	TI (hiv) OR AB (hiv)	102,476
4	TI (hiv1) OR AB (hiv1)	27
5	TI (hiv2) OR AB (hiv2)	1
6	TI (hiv-1) OR AB (hiv-1)	6,168
7	TI (hiv-2) OR AB (hiv-2)	257
8	TI ("human immunodeficiency virus") OR AB ("human immunodeficiency virus")	16,727
9	TI ("human immunodeficiency virus") OR AB ("human immunodeficiency virus")	1
10	TI ("human immuno-deficiency virus") OR AB ("human immuno-deficiency virus")	49
11	TI ("human immune-deficiency virus") OR AB ("human immune-deficiency virus")	95
12	TI ("human immun*" N3 "deficiency virus") OR AB ("human immun*" N3 "deficiency virus")	145
13	TI ("acquired immunodeficiency syndrome") OR AB ("acquired immunodeficiency syndrome")	2,469
14	TI ("acquired immunodeficiency syndrome") OR AB ("acquired immunodeficiency syndrome")	1
15	TI ("acquired immuno-deficiency syndrome") OR AB ("acquired immuno-deficiency syndrome")	24
16	TI ("acquired immune-deficiency syndrome") OR AB ("acquired immune-deficiency syndrome")	1,084
17	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16	111,067
18	TI (sampleN1 collect*) OR AB (sampleN1 collect*)	19,612
19	TI (("dried blood spot*" N3 (home* or remote or personal or self*)) OR AB (("dried blood spot*" N3 (home* or remote or personal or self*)))	35
20	TI (fingerstick or finger-stick or fingerprick or finger-prick) OR AB ((fingerstick or finger-stick or fingerprick or finger-prick)	767
21	TI (alternative N3 test*) OR AB (alternative N3 test*)	1,825
22	TI (option* N1 test*) OR AB (option* N1 test*)	473
23	TI ((MH "Reagent Kits, Diagnostic+") AND (home* or remote or personal or self*))	175
24	MH "Home Diagnostic Tests"	837
25	TI ((Home* or self* or mail*) N3 (collect* or sampl* or specimen* or test* or kit or swab*)) OR AB ((Home* or self* or mail*) N3 (collect* or sampl* or specimen* or test* or kit or swab*))	20,958
26	TI ((MH "Saliva") and (home* or remote or personal or self*)) OR AB ((MH "Saliva") and (home* or remote or personal or self*))	1,035
27	TI ((oral or saliva) N3 (home* or remote or personal or self*)) OR AB ((oral or saliva) N3 (home* or remote or personal or self*))	2,369
28	TI ((MH "HIV Seropositivity") and ((home* or remote or personal or self*) N3 (test* or collect*))) OR AB ((MH "HIV Seropositivity") and ((home* or remote or personal or self*) N3 (test* or collect*)))	73
29	TI ((HIV N2 antibod*) and ((home* or remote or personal or self*) N3 (test* or collect*))) OR ((HIV N2 antibod*) and ((home* or remote or personal or self*) N3 (test* or collect*)))	27
30	TI ((MH "Serologic Tests+") and ((home* or remote or personal or self*) N3 (test* or collect*))) OR AB ((MH "Serologic Tests+") and ((home* or remote or personal or self*) N3 (test* or collect*)))	235
31	TI (serolog* and ((home* or remote or personal or self*) N3 (test* or collect*))) OR AB (serolog* and ((home* or remote or personal or self*) N3 (test* or collect*)))	59
32	S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31	46,269
33	S17 AND S32	2,307
34	Limiters - Published Date: 20000101-Present	2,151

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations and Daily			
Embase Classic+Embase			
#	Term	MEDLINE	Embase
1	exp HIV Infections/	302232	404075
2	exp HIV/	104609	208856
3	hiv.ti,ab.	333329	428054
4	(hiv1 or hiv-1).ti,ab.	82344	99842
5	(hiv2 or hiv-2).ti,ab.	4873	5933
6	human immunodeficiency virus.ti,ab.	90963	99592
7	human immunodeficiency virus.ti,ab.	7	29
8	human immuno-deficiency virus.ti,ab.	262	319
9	human immune-deficiency virus.ti,ab.	431	560
10	(human immun* adj3 deficiency virus).ti,ab.	700	886
11	acquired immunodeficiency syndrome.ti,ab.	16368	17101
12	acquired immunodeficiency syndrome.ti,ab.	12	24
13	acquired immuno-deficiency syndrome.ti,ab.	126	151
14	acquired immune-deficiency syndrome.ti,ab.	6033	6514
15	(acquired immun* adj3 deficiency syndrome).ti,ab.	6199	6697
16	or/1-15	429466	590898
17	(sample adj1 collect*).ti,ab.	13205	19434
18	Dried Blood Spot Testing/ and (home* or remote or personal or self*).ti,ab.	198	453
19	(dried blood spot* adj3 (home* or remote or personal or self*)).ti,ab.	72	88
20	(fingerstick or finger-stick or fingerprick or finger-prick).ti,ab.	2541	4135
21	exp Diagnostic Self Evaluation/	3990	34901
22	exp HIV Testing/ and (home* or remote or personal or self*).ti,ab.	772	2873
23	(alternative adj3 test*).ti,ab.	6989	9029
24	(option* adj1 test*).ti,ab.	728	1106
25	exp Reagent Kits, Diagnostic/ and (home* or remote or personal or self*).ti,ab.	1238	5580
26	exp self-testing/	8544	440
27	((Home* or self* or mail*) adj3 (collect* or sampl* or specimen* or test* or kit or swab*)).ti,ab.	32218	43306
28	exp Saliva/ and (home* or remote or personal or self*).ti,ab.	3143	3025
29	((oral or saliva) adj3 (home* or remote or personal or self*)).ti,ab.	4760	6060
30	exp HIV Antibodies/ and ((home* or remote or personal or self*) adj3 (test* or collect*)).ti,ab.	57	65
31	((HIV adj2 antibod*) and ((home* or remote or personal or self*) adj3 (test* or collect*)).ti,ab.	75	88
32	exp Serologic Tests/ and ((home* or remote or personal or self*) adj3 (test* or collect*)).ti,ab.	427	1438
33	(serolog* and ((home* or remote or personal or self*) adj3 (test* or collect*)).ti,ab.	180	255
34	or/17-33	74513	122906
35	16 and 34	3860	7214
36	limit 35 to yr="2000 -Current"	3346	6775

## Supplementary Material File S2. Study characteristics of included studies.

n=314 studies. USA = United States of America, UK = United Kingdom. RCT = randomised controlled trial, MSM = men who have sex with men, FSW = female sex worker, AGYW = adolescent girls and young women, PrEP = pre-exposure prophylaxis.

Study	Country	Study type	Study population
Adeagbo (2022) (1)	South Africa	Non-experimental (mixed methods)	Young people aged 18-29 years
Agot (2018) (2)	Kenya	Non-experimental (cohort)	Antenatal women, FSW
Agot (2018) (3)	Kenya	Experimental (RCT)	Women seeking antenatal or postpartum care
Agot (2020) (4)	Kenya	Experimental (RCT)	Partners of people living with HIV
Amstutz (2020) (5)	Lesotho	Experimental (RCT)	Adolescents and young adults aged 12-24 years
Amstutz (2020) (6)	Lesotho	Experimental (RCT)	People aged 12+ years who were absent during, or declining, home-based HIV testing
Amstutz (2021) (7)	Lesotho	Non-experimental	General population
Anand (2016) (8)	Thailand	Non-experimental (observational)	MSM, transgender people
Ankiersztejn-Bartczak (2021) (9)	Poland	Non-experimental (observational)	Partners of people newly diagnosed with HIV
Arullapan (2018) (10)	South Africa	Non-experimental (observational)	Researchers, posing as members of the public
Asiimwe (2014) (11)	Uganda	Experimental (RCT)	Fishing community
Atkins (2021) (12)	South Africa	Non-experimental (observational)	Male partners of AGYW
Ayallo (2021) (13)	Kenya	Non-experimental (observational)	Men
Aylward (2020) (14)	Kenya	Experimental (uncontrolled trial)	General population
Balan (2020) (15)	USA	Non-experimental (observational)	MSM, transgender women
Balan (2022) (16)	USA	Non-experimental (observational)	MSM, transgender women, and their partners
Balan (2020) (17)	USA	Non-experimental (observational)	General population
Baraitser (2019) (18)	UK	Non-experimental (observational)	General population
Bartelsman (2017) (19)	Netherlands	Non-experimental (observational)	General population, MSM, ethnic minorities
Belec (2017) (20)	Democratic Republic of Congo, Central African Republic	Non-experimental (observational)	General population
Belete (2019) (21)	Ethiopia	Non-experimental (observational)	General population
Bell (2021) (22)	Australia	Non-experimental (observational)	General population, MSM
Biello (2021) (23)	USA	Experimental (RCT)	Young MSM aged 15-24 years
Biello (2021) (24)	USA	Non-experimental (observational)	Young MSM aged 15-24 years
Brady (2017) (25)	UK	Non-experimental (observational)	MSM, Black Africans

Study	Country	Study type	Study population
Brown (2016) (26)	USA	Non-experimental (observational)	Young adults of gender or cultural minorities
Bulterys (2020) (27)	Uganda	Experimental (RCT)	Male partners of HIV-positive pregnant women
Bwalya (2020) (28)	Zambia	Experimental (RCT)	General population
Bwana (2018) (29)	Kenya	Non-experimental (observational)	General population
Carballo-Dieguez (2012) (30)	USA	Non-experimental (cohort)	MSM and transgender women
Carballo-Dieguez (2020) (31)	USA, Puerto Rico	Experimental (RCT)	MSM and transgender women
Carballo-Dieguez (2020) (32)	USA	Experimental (RCT)	MSM
Catania (2021) (33)	Tanzania	Experimental (RCT)	Homeless, orphaned youth
Cesar (2021) (34)	Argentina	Non-experimental (observational)	MSM
Chan (2021) (35)	Hong Kong	Non-experimental (observational)	MSM
Chanda (2017) (36)	Zambia	Experimental (RCT)	FSW
Chang (2019) (37)	Zimbabwe	Experimental (RCT)	General population
Chen (2021) (38)	South Africa	Non-experimental (cohort)	MSM
Cheng (2021) (39)	China	Experimental (RCT)	MSM
Chiou (2019) (40)	Taiwan	Non-experimental (observational)	Nursing students
Choko (2019) (41)	Malawi	Experimental (RCT)	Male partners of pregnant women attending antenatal care
Choko (2011) (42)	Malawi	Non-experimental (observational)	General population
Choko (2021) (43)	Malawi	Experimental (RCT)	Women seeking antenatal care, people with newly diagnosed HIV
Choko (2015) (44)	Malawi	Experimental (RCT)	General population
Choko (2018) (45)	Uganda	Non-experimental (observational)	Fishermen
d'Elbee (2020) (46)	Lesotho	Non-experimental (observational)	General population
da Cruz (2021) (47)	Brazil	Non-experimental (observational)	Adult men
Davey (2022) (48)	South Africa	Experimental (RCT)	Postpartum women who initiated PrEP during pregnancy and their male partners
De Boni (2019) (49)	Brazil	Non-experimental (cross-section)	MSM
De Boni (2018) (50)	Brazil	Non-experimental	MSM
de la Fuente (2012) (51)	Spain	Non-experimental (observational)	General population
De Schaecht (2020) (52)	Mozambique	Non-experimental	General population
Dekova (2020) (53)	Eswatini	Non-experimental (observational)	General population
Deville (2019) (54)	South Africa	Non-experimental (observational)	General population
Dijkstra (2021) (55)	Kenya	Non-experimental (observational)	Gay and bisexual MSM, transgender women

Study	Country	Study type	Study population
Doan (2021) (56)	USA	Non-experimental (observational)	Black and Latino young MSM young adults aged 18-30 years
Dolezal (2020) (57)	USA, Puerto Rico	Experimental (RCT)	MSM, transgender women
Dore (2015) (58)	USA	Non-experimental (case study)	N/A (case study of a author)
Dovel (2019) (59)	Malawi	Experimental (RCT)	Partners of people taking a niretroviral therapy for HIV
Dovel (2021) (60)	Malawi	Experimental (RCT)	General population (outpatients)
Dovel (2020) (61)	Malawi	Experimental (RCT)	General population (outpatients)
Dreyer (2021) (62)	South Africa	Experimental (RCT)	Older AGYW aged 18-24 years
Dunkley (2021) (63)	England	Non-experimental	Black and minority ethnic MSM, Black African straight cis-men and cis-women, people experiencing homelessness
Dzi namarira (2021) (64)	Rwanda	Experimental (RCT)	Adult males
Edelstein (2020) (65)	USA	Non-experimental (observational)	MSM, transgender and gender-nonconforming people who have sex with men
Eustaquio (2022) (66)	Philippines	Non-experimental (retrospective cohort)	Cis-MSM and transgender women
Fan (2019) (67)	China	Non-experimental (observational)	University students
Fischer (2021) (68)	South Africa	Non-experimental (observational)	General population
Fistonich (2021) (69)	USA	Non-experimental	General population; MSM; lesbian, gay, bisexual, transgender, and queer people
Floyd (2018) (70)	Zambia	Experimental (RCT)	General population
Floyd (2020) (71)	Zambia, South Africa	Experimental (RCT)	General population
Fonner (2021) (72)	Tanzania	Non-experimental (observational)	Couples who learned of their serodiscordance through self-testing; couples who already knew of their serodiscordance
Frasca (2014) (73)	USA	Non-experimental (observational)	MSM
Freeman (2018) (74)	USA	Non-experimental	MSM
Frye (2021) (75)	USA	Experimental (RCT)	Young Black MSM and Transwomen
Gabriel (2018),(76) with data from Nicholls (2022) (77)	United Kingdom	Experimental (RCT)	MSM, transgender women who have sex with men
Galli (2021) (78)	Canada	Non-experimental (observational)	General population
Gas hobotse (2019) (79)	Burundi	Non-experimental	MSM, FSWs
Gaydos (2020) (80)	USA	Non-experimental	Not specified
Gaydos (2011) (81)	USA	Non-experimental (observational)	ED patients
Gaydos (2013) (82)	USA	Non-experimental (observational)	ED patients
George (2018) (83)	Kenya	Experimental (RCT)	Truck drivers, FSWs
Gibson (2016) (84)	UK	Non-experimental	General population
Gichangi (2018) (85)	Kenya	Experimental (RCT)	Pregnant women attending antenatal care and their male partners
Giguere (2020) (86)	USA	Experimental (RCT)	Transgender FSWs

Study	Country	Study type	Study population
Girault (2021) (87)	Thailand	Non-experimental (observational)	MSM, transgender women
Gous (2020) (88)	South Africa	Non-experimental (observational)	General population
Gras (2014) (89)	USA	Non-experimental (observational)	People living with HIV
Green (2018) (90)	Vietnam	Non-experimental (descriptive analysis)	MSM
Gresenguet (2017) (91)	Central African Republic	Non-experimental (observational)	General population (lay users), health care workers
Gwynn (2022) (92)	USA	Experimental (RCT)	MSM
Hacking (2022) (93)	South Africa	Non-experimental (observational)	General population
Halfin (2019) (94)	England	Non-experimental (observational)	General population, Black Africans
Harichund (2019) (95)	South Africa	Experimental (RCT)	General population
Harichund (2019) (96)	South Africa	Experimental (RCT)	General population
Hatzold (2019) (97)	Malawi, Zambia, Zimbabwe	Non-experimental (observational)	Rural populations
	Malawi, Zimbabwe	Non-experimental (observational)	Adult men, adolescents (esp. girls and young women), sexual partners of people newly diagnosed with HIV
	Malawi, Zambia, Zimbabwe	Non-experimental (observational)	Adult men
	Zambia, Zimbabwe	Non-experimental (observational)	General population, sexual partners of people newly diagnosed with HIV, male partners of pregnant women
	Malawi, Zambia, Zimbabwe	Non-experimental (observational)	Men accessing voluntary medical male circumcision
Hecht (2021) (98)	USA	Non-experimental	MSM
Hector (2018) (99)	Mozambique	Non-experimental (observational)	Adolescents
Hensen (2020) (100)	Zambia, South Africa	Experimental (RCT)	General population
Hoagland (2020) (101)	Brazil	Non-experimental	General population
Holmes (2020) (102)	South Africa	Non-experimental (observational)	AGYW and their male partners
Horvath (2022) (103)	Uganda	Non-experimental (observational)	Adults who have condomless sex
Hu (2021) (104)	China	Experimental (RCT)	MSM
Hunter (2021) (105)	Tanzania	Non-experimental (observational)	AGYW
Indravudh (2018) (106)	Malawi	Experimental (RCT)	General population
Indravudh (2021) (107)	Malawi	Experimental (RCT)	General population
Indravudh (2021) (108)	Malawi	Experimental (RCT)	General population
Indravudh (2021) (109)	Malawi	Experimental (RCT)	General population
Inwani (2021) (110)	Kenya	Non-experimental (observational)	AGYW
Iribarren (2020) (111)	USA, Puerto Rico	Experimental (RCT)	MSM, transgender women who have sex with men
Iwelunmor (2022) (112)	Nigeria	Experimental (quasi-experimental)	Youth 14-24 years old



Study	Country	Study type	Study population
Jamil (2017) (113)	Australia	Experimental (RCT)	MSM
Janssen (2020) (114)	South Africa	Non-experimental (observational)	General population
Janssen (2021) (115)	South Africa, Canada	Non-experimental (observational)	General population, MSM
Jin (2019) (116)	China	Non-experimental	MSM
Johnson (2022) (117)	USA	Non-experimental	MSM, transgender people, gender queer/gender-nonconforming people who have sex with men
Kalibala (2014) (118)	Kenya	Non-experimental (cross-sectional)	Healthcare workers and their partners
Katz (2018) (119)	USA	Experimental (RCT)	MSM
Katz (2012) (120)	USA	Non-experimental (case report)	Partners of MSM
Kelvin (2019) (121)	Kenya	Experimental (RCT)	Male truckers, including drivers and assistants, who test irregularly
Kelvin (2019) (122)	Kenya	Experimental (RCT)	FSWs who test irregularly
Kelvin (2018) (123)	Kenya	Experimental (RCT)	Male truck drivers
Kelvin (2018) (124)	Kenya	Experimental (RCT)	Male truck drivers, including assistants
Kelvin (2021) (125)	Kenya	Experimental (RCT)	Male truck drivers, including assistants
Kenya (2016) (126)	USA	Experimental (RCT)	African Americans
Kim (2020) (127)	USA	Experimental (RCT)	Emergency department patients
Kisa (2019) (128)	Uganda	Experimental (RCT)	Pregnant women receiving antenatal care who reported a negative self-test but had it interpreted as positive by researchers
Knight (2017) (129)	South Africa	Non-experimental (qualitative)	General population
Koris (2021) (130)	Zimbabwe	Non-experimental (observational)	University students
Korte (2020) (131)	Uganda	Experimental (RCT)	Pregnant women attending antenatal care and their male partners
Koutentakis (2016) (132)	Spain	Non-experimental (observational)	MSM
Kravchenko (2019) (133)	Ukraine	Non-experimental (program analysis)	People who inject drugs
Kumar (2021) (134)	China	Experimental (quasi-experimental)	MSM
Kumwenda (2014) (135)	Malawi	Experimental (RCT)	Cohabiting couples
Kumwenda (2019) (136)	Malawi	Experimental (RCT)	Partners where at least one partner had self-tested
Kumwenda (2021) (137)	Malawi	Non-experimental (observational)	FSWs
Kurth (2016) (138)	Kenya	Non-experimental (observational)	General population
Kutner (2021) (139)	USA	Non-experimental (observational)	Cisgender MSM, transgender women who have sex with men
Lebina (2019) (140)	South Africa	Non-experimental (observational)	General population
Lee (2007) (141)	Singapore	Non-experimental (observational)	Known HIV-positive individuals; at-risk individuals seeking treatment for STIs
Lentz (2020) (142)	USA, Puerto Rico	Experimental (RCT)	Cisgender MSM, transgender women who have sex with men

Study	Country	Study type	Study population
Li (2021) (143)	China	Non-experimental (observational)	MSM
Lightfoot (2018) (144)	USA	Non-experimental (observational)	African American or Latino MSM or transgender people who have sex with men, and their friends
Lillie (2021) (145)	Burundi	Non-experimental (descriptive analysis)	MSM, transgender people, FSWs
Lippman (2018) (146)	South Africa	Non-experimental (observational)	MSM
Lippman (2018) (147)	South Africa	Non-experimental (observational)	MSM
Lippman (2016) (148)	USA	Non-experimental (observational)	Transgender women
Liu (2019) (149)	China	Non-experimental (qualitative)	MSM
Liu (2020) (150)	China	Non-experimental (observational)	MSM
Lora (2020) (151)	Malawi	Non-experimental (qualitative ethnographic)	FSW
Luo (2020) (152)	China	Non-experimental (observational)	Partners of MSM who have recently received a positive HIV result
Lyons (2019) (153)	Senegal	Non-experimental (observational)	MSM, people who inject drugs, FSWs and their clients
Maatouk (2021) (154)	Lebanon	Non-experimental (observational)	MSM
MacGowan (2020) (155)	USA	Experimental (RCT)	MSM
MacPherson (2014) (156)	Malawi	Experimental (RCT)	General population
MacPherson (2011) (157)	Malawi	Non-experimental (observational)	General population
Magno (2021) (158)	Brazil	Non-experimental	MSM, transgender women
Maheswaran (2016) (159)	Malawi	Experimental (RCT)	General population
Maheswaran (2017) (160)	Malawi	Non-experimental (observational)	Adults living with HIV
Majam (2021) (161)	South Africa	Non-experimental (observational)	General population
Majam (2020) (162)	South Africa	Non-experimental (observational)	General population
Majam (2018) (163)	South Africa	Non-experimental (observational)	General population
Majam (2021) (164)	South Africa	Non-experimental (observational)	General population
Maksut (2016) (165)	USA	Non-experimental (observational)	MSM, Black/African-American MSM
Makya o (2019) (166)	Tanzania	Non-experimental (observational)	MSM, FSWs, people who inject drugs, AGYW
Maman (2017) (167)	Kenya	Non-experimental (observational)	FSWs and their sexual partners and peers
Mangenh (2019) (168)	Malawi, Zambia, Zimbabwe	Experimental (RCT)	General population
Marley (2014) (169)	China	Non-experimental (observational)	MSM, FSW, voluntary HIV counselling and testing clients

Study	Country	Study type	Study population
Marlin (2014) (170)	USA	Non-experimental (observational)	General population, African-American MSM
Martinez (2014) (171)	USA	Non-experimental (observational)	MSM and their partners
Martinez (2016) (172)	South Africa	Non-experimental (observational)	General population
Masters (2016) (173)	Kenya	Experimental (RCT)	Women receiving antenatal or postpartum care, and their male partners
Matovu (2020) (174)	Uganda	Non-experimental (observational)	Young people, adult men
Matovu (2018) (175)	Uganda	Experimental (RCT)	Pregnant women receiving antenatal care, and their male partners
Matsimela (2021) (176)	South Africa	Non-experimental (observational)	Men
	South Africa	Non-experimental (observational)	General population
	South Africa	Non-experimental (observational)	Commuters, taxi drivers and street vendors
Mavodza (2021) (177)	Zimbabwe	Experimental (RCT)	Youth)
Mbopi-Keou (2020) (178)	Cameroon	Non-experimental (observational)	General population
Mbwambo (2020) (179)	Tanzania	Non-experimental (observational)	Co-habiting couples
McGowan (2022) (180)	Uganda	Experimental (RCT)	FSWs
McHugh (2020) (181)	Zimbabwe	Non-experimental (observational)	Youth aged 16-24 years
McMahon (2021) (182)	Uganda	Experimental (RCT)	FSWs
Mee (2019) (183)	Malawi	Non-experimental (observational)	FSWs
Meyerson (2016) (184)	USA	Non-experimental (observational)	African Americans
Moore (2019) (185)	South Africa	Non-experimental (observational)	General population
Mphande (2021) (186)	Malawi	Experimental (RCT)	General population
Muchedzi (2021) (187)	Zimbabwe	Non-experimental (observational)	Sexual contacts of index HIV-positive cases
	Zimbabwe	Non-experimental (observational)	Farmers, artisanal miners, FSWs, truck drivers
Mugo (2017) (188)	Kenya	Non-experimental (observational)	Adult pharmacy clients (18+ years old) seeking services indicative of HIV risk
Mujugira (2021) (189)	Uganda	Experimental	Sex workers - cisgender women, cisgender men and transgender women; their intimate partners
Mujugira (2022) (190)	Uganda	Experimental (RCT)	Sex workers - cisgender women, cisgender men and transgender women; their intimate partners
Mukora -Mutseyekwa (2022) (191)	Zimbabwe	Non-experimental (observational)	University students
Mulubwa (2019) (192)	Zambia	Experimental (RCT)	General population
Mutale (2021) (193)	Zambia	Experimental (RCT)	Pregnant women seeking antenatal care, and their male partners
Nangendo (2020) (194)	Uganda	Non-experimental (observational)	Adult males

Study	Country	Study type	Study population
Napierala (2020) (195)	Kenya	Experimental (RCT)	Women with multiple male partners; their male partners
Napierala (2019) (196)	Zimbabwe	Non-experimental (observational)	FSWs
	Malawi	Non-experimental (observational)	FSWs
Nash (2021) (197)	Italy	Non-experimental (observational)	General population
Nasuuna (2020) (198)	Uganda	Non-experimental (observational)	Sexual partners of pregnant and lactating mothers
	Uganda	Non-experimental (observational)	MSM, FSWs
Neuman (2021) (199)	Zambia	Experimental (RCT)	General population
Ng (2012) (200)	Singapore	Non-experimental (observational)	General population, people living with HIV
Ngure (2017) (201)	Kenya	Non-experimental (observational)	Couples on PrEP
Nguyen (2019) (202)	Vietnam	Non-experimental (observational)	MSM, FSWs, people who inject drugs
Nichols (2019) (203)	Zambia	Experimental (RCT)	Youth aged 16-24 years
Nichols (2020) (204)	Malawi	Experimental (RCT)	Outpatients
Norelli (2021) (205)	USA	Non-experimental	MSM, cisgender African Americans
Nour (2012) (206)	USA	Non-experimental (observational)	General population
O'Byrne (2021) (207)	Canada	Non-experimental (observational)	General population
Offorjebe (2019) (208)	Malawi	Experimental (RCT)	Sexual partners of HIV-positive individuals
Okoboi (2021) (209)	Uganda	Non-experimental (observational)	MSM
Okoboi (2020) (210)	Uganda	Non-experimental (observational)	MSM
Oladele (2021) (211)	Nigeria	Non-experimental (qualitative)	Youth aged 14-24 years
Oldenburg (2018) (212)	Zambia	Experimental (RCT)	FSWs
Omollo (2021) (213)	Kenya	Non-experimental (observational)	AGYW testing positive for chlamydia or gonorrhoea
Ortblad (2017) (214)	Uganda	Experimental (RCT)	FSWs
Ortblad (2018) (215)	Zambia	Experimental (RCT)	FSWs
	Uganda	Experimental (RCT)	FSWs
Ortblad (2018) (216)	Uganda	Non-experimental (observational)	FSWs
Ortblad (2018) (217)	Uganda	Non-experimental (observational)	FSWs
Oyaro (2020) (218)	Kenya	Non-experimental (observational)	Women attending antenatal or postpartum care
Pai (2021) (219)	South Africa	Experimental (quasi-randomised)	General population
Pai (2013) (220)	South Africa	Non-experimental (observational)	Healthcare workers
Pant Pai (2014) (221)	Canada	Non-experimental (observational)	University students confirmed HIV negative

Study	Country	Study type	Study population
Pant Pai (2018) (222)	Canada	Non-experimental (observational)	MSM
Pasipamire (2020) (223)	Eswatini	Non-experimental (observational)	General population
Patel (2019) (224)	USA	Experimental (RCT)	General population (patients declining HIV screening)
Peck (2014) (225)	Kenya, Malawi, South Africa	Non-experimental (observational)	General population
Peiper (2022) (226)	USA	Non-experimental (observational)	People who use illicit drugs
Pettifor (2020) (227)	South Africa	Experimental (RCT)	Young women aged 18-26 years and their peers/partners
Phanuphak (2018) (228)	Thailand	Non-experimental (observational)	MSM, transgender women
Phanuphak (2020) (229)	Thailand	Non-experimental (observational)	MSM, transgender women
Phiri (2022) (230)	Zambia	Experimental (RCT)	General population, men
	Zambia	Non-experimental (observational)	General population, men
Phongphiew (2021) (231)	Thailand	Non-experimental (observational)	Young MSM and transgender women (15-19 years)
Pierre (2020) (232)	Rwanda	Non-experimental	Men
Pintye (2019) (233)	Kenya	Non-experimental (observational)	Pregnant women and their male partners
Pintye (2019) (234)	Kenya	Experimental (RCT)	Women seeking antenatal care, and their male partners)
Pollard (2018) (235)	UK	Non-experimental (observational)	MSM
Prazuck (2016) (236)	France	Non-experimental (observational)	General population
Radebe (2019) (237)	South Africa	Non-experimental (observational)	MSM
Rael (2020) (238)	USA, Puerto Rico	Experimental (RCT)	Transgender women
Rendina (2021) (239)	United states	Non-experimental (observational)	MSM
Ritchwood (2019) (240)	South Africa	Non-experimental (observational)	Young people aged 18-24 years
Rosadino (2021) (241)	Philippines	Non-experimental (observational)	MSM, transgender women
Rose (2021) (242)	Uganda	Non-experimental (observational)	Pregnant women and their male partners
Sanabria (2021) (243)	United States	Non-experimental (observational)	Young MSM aged 18-29 years, cisgender females who experts in human-computer interaction
Sande (2021) (244)	Malawi, South Africa	Experimental (RCT)	Sexual partners of pregnant women and people living with HIV
	Zambia, Zimbabwe	Non-experimental (observational)	Pregnant women; sexual partners of pregnant women and HIV-positive clients; outpatient clients
Sarkar (2016) (245)	India	Non-experimental (observational)	Pregnant women

Study	Country	Study type	Study population
Saunders (2018) (246)	England	Non-experimental (observational)	General population
Schaffer (2017) (247)	Kenya	Non-experimental (observational)	Women seeking antenatal and postpartum care, and their male partners
Schnall (2016) (248)	USA	Non-experimental (observational)	Young adults at high risk for HIV aged 18-24 years
Sekoni (2022) (249)	Nigeria	Non-experimental (observational)	MSM
Shahmanesh (2019) (250)	South Africa	Non-experimental (observational)	General population (aged 18-30 years)
Shahmanesh (2021) (251)	South Africa	Experimental (RCT)	General population (aged 18-30 years)
Shapiro (2020) (252)	South Africa	Non-experimental (observational)	Adult men
Shava (2021) (253)	Botswana	Non-experimental (observational)	FSWs
Shrestha (2020) (254)	USA	Experimental (RCT)	MSM
Sibanda (2021) (255)	Zimbabwe	Experimental (RCT)	General population (aged 16+ years)
Simo Fotso (2022) (256)	Côte d'Ivoire	Non-experimental (observational)	MSM, FSW, people who use drugs, people living with HIV, patients attending an STI consult, peer networks of these populations
Simwinda (2019) (257)	Malawi, Zambia	Non-experimental (observational)	General population (adult men and women aged 18+ years)
Sithole (2021) (258)	South Africa	Non-experimental (observational)	General population, focusing on men
Smith (2016) (259)	South Africa	Non-experimental (observational)	AGYW aged 16-25 years
Stafylis (2018) (260)	USA	Non-experimental (observational)	MSM
Stephenson (2017) (261)	USA	Experimental (RCT)	MSM couples
Stephenson (2017) (262)	USA	Experimental (RCT)	Transgender and gender nonconforming youth
Stephenson (2022) (263)	USA	Experimental (RCT)	MSM couples
Stephenson (2020) (264)	USA	Experimental (RCT)	Transgender youth aged 15-24 years
Tao (2014) (265)	China	Non-experimental (observational)	MSM
Thirumurthy (2021) (266)	Kenya	Experimental (RCT)	Women at high risk of HIV, and their male partners
Thirumurthy (2016) (267)	Kenya	Non-experimental (observational)	Women receiving antenatal and postpartum care; FSWs; sexual partners of the aforementioned populations
Tonen-Wolyec (2019) (268)	Democratic Republic of Congo	Non-experimental (observational)	Adolescents aged 15-19 years
Tonen-Wolyec (2018) (269)	Democratic Republic of Congo	Non-experimental (observational)	General population, healthcare workers
Tonen-Wolyec (2021) (270)	Democratic Republic of Congo	Non-experimental (observational)	Symptomatic patients visiting health facilities because of jaundice, sexually transmitted infections, and/or long-term fever; MSM, FSWs, people who inject drugs, prisoners
Tonen-Wolyec (2020) (271)	Democratic Republic of Congo	Experimental (RCT)	FSWs, those who have unprotected sex, those who have other STIs

Study	Country	Study type	Study population
Tonen-Wolyec (2021) (272)	Democratic Republic of Congo	Non-experimental (observational)	General population
Tonen-Wolyec (2020) (273)	Democratic Republic of Congo	Non-experimental (observational)	MSM, FSWs, people infected with other STIs
Tonen-Wolyec (2020) (274)	Democratic Republic of Congo	Non-experimental (observational)	General population
Trabwongwitaya (2022) (275)	Thailand	Non-experimental (observational)	Adolescents and young adults aged 18-24 years
Tsamwa (2018) (276)	Zambia	Experimental (RCT)	General population aged 16+ years
Tukei (2019) (277)	Lesotho	Non-experimental (observational)	MSM, FSWs, partners of people on antiretroviral therapy and people attending antenatal/postnatal care
Tun (2018) (278)	Nigeria	Non-experimental (observational)	MSM
Vasconcelos (2021) (279)	Brazil	Non-experimental (observational)	MSM
Vera (2019) (280)	UK	Non-experimental (observational)	MSM
Visavakum (2021) (281)	Thailand	Non-experimental (observational)	MSM, transgender women
Volk (2016) (282)	Brazil, Peru	Non-experimental (observational)	MSM
Vrana-Diaz (2019) (283)	Kenya	Experimental (RCT)	Pregnant people and their male partners
Vrana-Diaz (2020) (284)	Uganda	Experimental (RCT)	Pregnant people and their male partners
Vrana-Diaz (2021) (285)	Uganda	Experimental (RCT)	Pregnant people and their male partners
Wachinger (2021) (286)	Uganda	Experimental (RCT)	FSWs
Wang (2022) (287)	China	Experimental (RCT)	MSM
Wang (2020) (288)	China	Non-experimental (observational)	MSM
Wang (2018) (289)	Hong Kong	Experimental (RCT)	MSM
Wei (2018) (290)	China	Non-experimental (observational)	MSM
Wesolowski (2019) (291)	USA	Non-experimental (observational)	General population, MSM
Widyanthini (2021) (292)	Indonesia	Non-experimental (observational)	MSM
Wilson (2022) (293)	Kenya	Non-experimental (observational)	Adolescents and young adults aged 15-24 years
Wirtz (2021) (294)	Myanmar	Experimental (RCT)	MSM, transgender women
Witzel (2020) (295)	England, Wales	Experimental (RCT)	Cisgender MSM
Witzel (2019) (296)	England, Wales	Experimental (RCT)	MSM and transgender women who have sex with men
Witzel (2020) (297)	England, Wales	Experimental (RCT)	MSM
Witzel (2021) (298)	England, Wales	Experimental (RCT)	Transgender men and women who have sex with men
Wong (2015) (299)	Hong Kong SAR	Non-experimental (observational)	Men or transgender people who have sex with men
Woods (2016) (300)	USA	Non-experimental (observational)	MSM attending gay bathhouses
Wray (2018) (301)	USA	Experimental (RCT)	MSM
Wray (2020) (302)	USA	Experimental (RCT)	MSM

Study	Country	Study type	Study population
Wray (2017) (303)	UnitedStates	Non-experimental (observational)	MSM
Wu (2021) (304)	China	Non-experimental (observational)	MSM
Wulandari (2020) (305)	Indonesia	Non-experimental (observational)	Men who purchase sex [with women]
Xiao (2020) (306)	China	Experimental (RCT)	MSM
Yan (2020) (307)	China	Non-experimental (observational)	MSM
Yang (2021) (308)	China	Non-experimental (observational)	MSM
Young (2014) (309)	USA	Non-experimental (observational)	African American and Latino MSM
Zhang (2020) (310)	China	Experimental (RCT)	MSM and their sexual partners
Zhang (2021) (311)	China	Experimental (RCT)	MSM and their sexual partners
Zhang (2020) (312)	China	Non-experimental (observational)	MSM
Zhong (2017) (313)	China	Non-experimental (observational)	MSM
Zhou (2022) (314)	China	Experimental (RCT)	MSM
Zhu (2019) (315)	China	Experimental (RCT)	MSM



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