

Optimizing HIV and STI testing services for men who have sex with men in high-income countries: A Systematic Review

Table S1. Search Strategy: PUBMED

Set	Search	Results
#1	(STD OR STI OR HIV OR sexual health OR genitourinary) AND (service* OR test* OR diagnosis OR management OR treatment OR care) AND (prefer* OR satisfaction OR acceptability OR perspective* OR perception* OR qualitative OR value* OR experience*)	155,079
#2	(((((sexually transmitted infection[MeSH Terms]) OR sexually transmitted disease[MeSH Terms]) AND (sexual health service[MeSH Terms]) OR health service)))	2,513,004
#3	((((((sexually transmitted disease[MeSH Terms]) OR STI) OR STD) OR Sexually transmitted infection[MeSH Terms])))) AND (((((diagnosis[MeSH Terms]) OR service) OR Testing))) AND (((((Perspective) OR Perception) OR acceptability) OR Preference) OR Satisfaction) OR experience)))	7998
#4	((((((sexually transmitted disease[MeSH Terms]) OR STI) OR STD) OR Sexually transmitted infection[MeSH Terms])))) AND (((((diagnosis[MeSH Terms]) OR service) OR Testing))) AND (((((Perspective) OR Perception) OR acceptability)))	342
#5	(((((sexually transmitted disease[MeSH Terms]) OR sexually transmitted infection[MeSH Terms]) OR STI) OR STD) AND Sexual health service[MeSH Terms]) AND internet[MeSH Terms]	342
#6	(((((sexually transmitted disease[mesh terms]) or std or sexually transmitted infection[mesh terms]) or sti and health service) and preference)) and testing)	216
#7	(((((sexually transmitted disease[mesh terms]) or std or sexually transmitted infection[mesh terms]) or sti and sexual health service) and preference)) and testing)	213
#8	((((sexually transmitted infection[MeSH Terms]) OR sexually transmitted disease[MeSH Terms]) AND patient preference[MeSH Terms]))	179
#9	(((((sexually transmitted infection[MeSH Terms]) OR sexually transmitted disease[MeSH Terms]) AND sexual health service[MeSH Terms]))) AND preference	135
#10	(((((sexually transmitted disease[mesh terms]) or std or sexually transmitted infection[mesh terms]) or sti and sexual health service) and testing))) AND patient preference[MeSH Terms]	70
#11	((((((sexually transmitted disease[MeSH Terms]) OR sexually transmitted infection[MeSH Terms]) OR STI) OR STD) AND Sexual health service[MeSH Terms]))) AND patient preference[MeSH Terms]	48

Table S2. Search Strategy: EMBASE

Set	Search	Results
#1	((STD or STI or HIV or sexual health or genitourinary) and (service* or test* or diagnosis or management or treatment or care) and (prefer* or satisfaction or acceptability or perspective* or perception* or qualit* or value* or experience*)).af.	93,747
#2	((Sexually transmitted infection or STI).kw. or STD.af. or Sexually transmitted disease.af.) and health service.af. and testing.af.	1154
#3	(STD OR STI OR HIV OR sexual health OR genitourinary) AND (service* OR test* OR diagnosis OR management OR treatment OR care) AND (prefer* OR satisfaction OR acceptability OR perspective* OR perception* OR qualit* OR value* OR experience*).kw.	804
#4	((Sexually transmitted infection or sexually transmitted disease).kw. or STI.af. or STD.af.) and testing.kw.	590
#5	((Sexually transmitted infection or sexually transmitted disease).kw. or STI.af. or STD.af.) and internet.kw.	84

Table S3. Search Strategy: PsychINFO

Set	Search	Results
#1	((STD or STI or HIV or sexual health or genitourinary) and (service* or test* or diagnosis or management or treatment or care) and (prefer* or satisfaction or acceptability or perspective* or perception* or qualit* or value* or experience*)).af.	98,305
#2	(Sexually transmitted infection.mh. or STI.af. or sexually transmitted disease.mh. or STD.af.) and (testing.af. or diagnosis.af. or service.mh.) and (preference.mh. or perspective.af. or perception.af. or acceptability.af. or Satisfaction.af. or experience.af.)	6186
#3	(((Sexually transmitted infection or sexually transmitted disease) and patient preferences).mh. and testing.af. and health service.mh.) or sexual health service.af.	163
#4	(Sexually transmitted infection.mh. or STI.af. or sexually transmitted disease.mh. or STD.af.) and patient preference.mh.	24
#5	(((Sexually transmitted infection or sexually transmitted disease) and patient preferences).mh. and testing.af. and health service.mh.) or sexual health service.af.	0
#6	(Sexually transmitted infection.mh. or STI.af. or sexually transmitted disease.mh. or STD.af.) and sexual health service.mh. and patient preference.af.	0

Table S4. Search Strategy: CINAHL

Set	Search	Results
#1	(STD OR STI OR HIV OR sexual health OR genitourinary) AND (service* OR test* OR diagnosis OR management OR treatment OR care) AND (prefer* OR satisfaction OR acceptability OR perspective* OR perception* OR qualit* OR value* OR experience*)	26,222
#2	sexually transmitted diseases OR MW sexually transmitted infections AND MW sexual health services AND MW patient preference AND MW testing	5421
#3	sexually transmitted diseases OR MW sexually transmitted infections AND MW sexual health services AND MW patient preference	5421
#4	(((((sexually transmitted disease[MeSH Terms]) OR STI) OR STD) OR Sexually transmitted infection[MeSH Terms]))) AND (((((diagnosis[MeSH Terms]) OR service) OR Testing))) AND (((((Perspective) OR Perception) OR acceptability) OR Preference) OR Satisfaction) OR experience))	336
#5	(sexually transmitted diseases or sexually transmitted infections or sti or std) AND MW patient preference AND MW sexual health services	0

Table S5. PRISMA Checklist

Section/topic	#	Checklist item	Reported on page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	1-2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	3
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	3
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	4
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	4
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	4
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	4, Sup. 1
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	4
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	5
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	5
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	5

Section/topic	#	Checklist item	Reported on page #
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	5
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	5
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	5
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	n/a
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	6
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	6-7, Sup. 3
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	Sup. 3
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	7-16
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	20-24
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	n/a
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	n/a
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	16-18
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	18
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	18-19
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	19

Table S6. Summary of Included Study Characteristics and PREFS* Scores

	Author	Year of Study	Country	Method	PREFS Score
4	Alarcon Gutierrez[1]	2015-2016	Spain	Interview	4
9	Balan[2]	Published 2016	USA	Interview	4
10	Balan[3]	2016-2017	USA	Interview	3
14	Barnard[4]	2016	UK	Data from pre-existing services	3
16	Bauermeister[5]	Published 2015	USA	Randomised controlled trial	4
18	Baytop[6]	2008-2010	USA	Data from pre-existing services	4
220	Biello[7]	2018 - 2019	USA	Randomised controlled trial	3
39	Chen[8]	2009	Australia	Questionnaire	4
40	Clark[9]	2012-2015	USA	Questionnaire	4
43	Cohall[10]	2005	USA	Questionnaire	4
48	Conway[11]	2011-2012	Australia	Questionnaire	3
222	Contesse[12]	2017	USA	Questionnaire	2
53	Cushman[13]	2014	USA	Questionnaire	3
223	D'Angelo[14]	2018 – 2019	USA	Questionnaire	3
54	Datta[15]	2015	UK	Focus group	2
58	den Daas[16]	2017	Netherlands	Interview	3
63	Dodge[17]	Published 2010	USA	Interview	3
65	Eaton[18]	2017-2018	USA	Focus group	3
69	Feinstein[19]	2013	USA	Interview	3
73	Fields[20]	2015 - 2016	USA	Interview	3
74	Flowers[21]	2014	UK	Mixed method	3
76	Frye[22]	2014	USA	Interview	3
81	Gilbert[23]	2011-2012	Canada	Questionnaire	4
83	Gilbert[24]	2015-2016	Canada	Questionnaire	4
90	Gu[25]	2006	Hong Kong	Interview	4
98	Heijman[26]	2008-2009	Amsterdam	Interview	3
105	Holt[27]	2006-2008	Australia	Interview	3

106	Hottes[28]	Published 2012	Canada	Focus group	3
109	Hoyos[29]	2008	Spain	Data from pre-existing services	3
225	Hoyos[30]	2016	Greece, Spain, France, Germany, Denmark	Questionnaire	3
227	Iribarren[31]	2014 – 2017	USA, Puerto Rico	Randomised controlled trial	4
233	Jamil[32]	2013-2015	Australia	Randomised controlled trial	4
118	Katz[33]	2010-2014	USA	Randomised controlled trial	4
123	Knight[34]	2015-2017	Canada	Interview	3
124	Knight[35]	2013-2014	Australia	Cross sectional analysis	4
125	Knussen[36]	2005	UK	Questionnaire	4
129	Lea[37]	2016	Australia	Interview	3
131	Lechuga[38]	Published 2013	USA	Questionnaire	4
132	Lee[39]	2009	Australia	Questionnaire	3
134	Leitinger[40]	2013-2015	Australia	Questionnaire	4
137	Llewellyn[41]	2006	UK	Focus groups	3
141	Martin[42]	Published 2012	Australia	Questionnaire	4
142	Martin[43]	2010	Australia	Questionnaire	4
144	Maxwell[44]	Published 2018	UK	Questionnaire	4
147	Medline[45]	Published 2017	USA	Focus group	3
152	Miners[46]	2017	UK	Discrete Choice Experiment	4
160	Pant Pai[47]	2016-2017	Canada	Questionnaire	4
169	Pollard[48]	2009	UK	Focus group	3
181	Ryan[49]	2013-2015	Australia	Mixed method	4
183	Scheim[50]	2013	Canada	Interview	3

189	Skolnik[51]	1999	USA	Questionnaire	3
193	Spielberg[52]	1998	USA	Questionnaire	4
196	Strömdahl[53] [60]	2013	Sweden	Questionnaire	4
198	Sun[54]	2013-2014	USA	Questionnaire	4
202	Tobin[55]	Published 2018	USA	Interview	3
207	Wayal[56]	2005-2007	UK	Interview	3
210	Witzel[57]	2017 - 2018	UK	Interview	3
211	Witzel[58]	2014	UK	Questionnaire	4
212	Witzel[59]	2015	UK	Focus group	3
213	Wohlfeller[60]	2009-2010	UK	Questionnaire	4
216	Wray[61]	2016-17	USA	Randomised controlled trial	4

* PREFS - purpose, respondents, explanation, findings, significance

Reference List for Table S6

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