STI Prevalence Atlas: Data sources

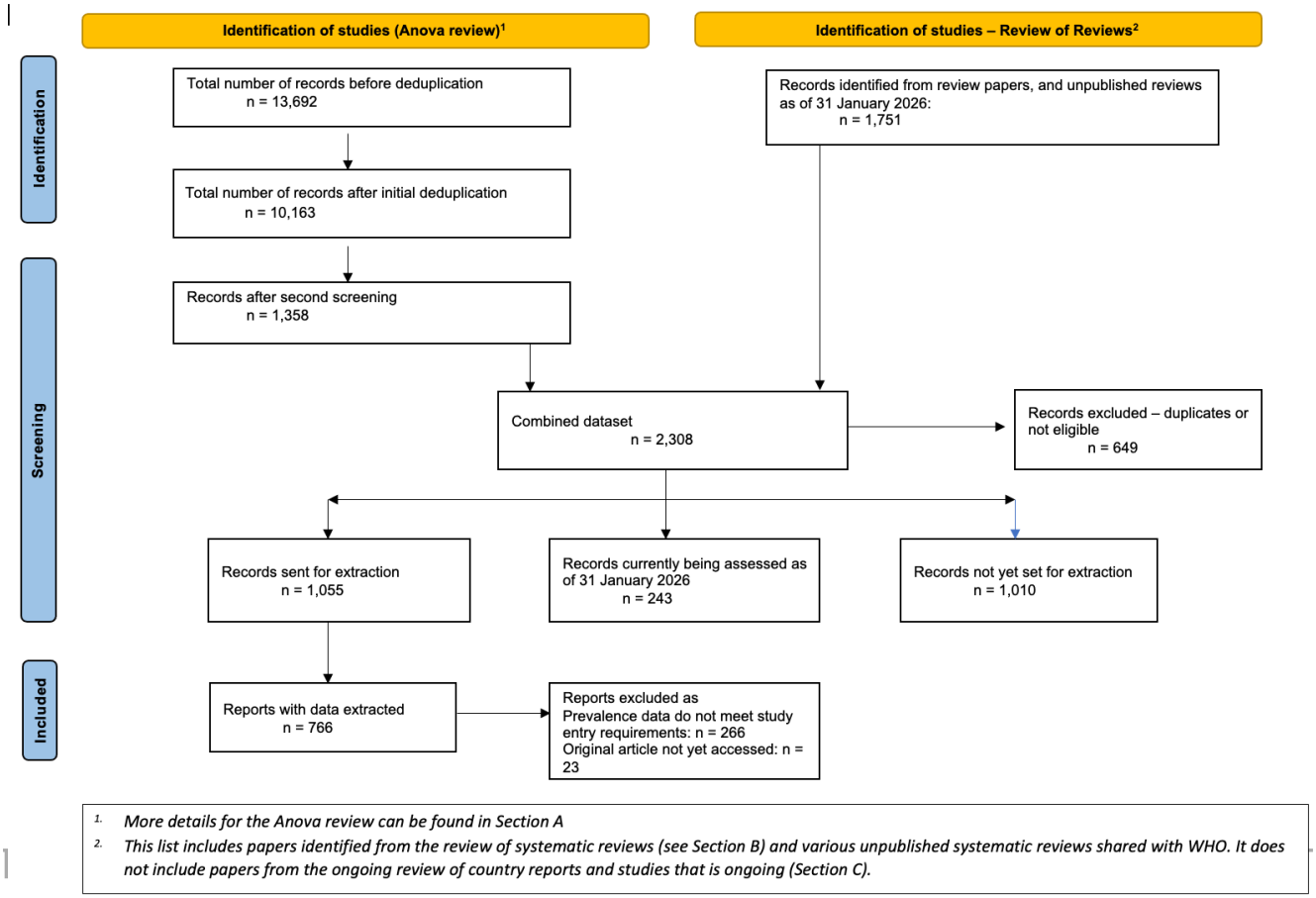
Date last updated: 31/01/2026

The STI Prevalence Atlas currently includes data obtained from:

1. A systematic review focusing on the prevalence of chlamydia, gonorrhoea and trichomoniasis published between January 2010 and November 2025 (see Section A).
2. Studies identified in published systematic reviews looking at the prevalence of chlamydia, gonorrhoea, HSV-2, syphilis or trichomoniasis (see Section B).
3. Reviews of country studies and reports conducted in key populations (e.g. IBBS reports) to identify studies with chlamydia, gonorrhoea, syphilis or trichomoniasis prevalence data (see Section C)

As of 31 January 2026, 2,308 papers have been identified that potentially contain prevalence data that meet the STI Prevalence Atlas eligibility criteria (see Figure 1). Of these, 1,005 have been extracted and 766 had one or more eligible prevalence data point. Studies were excluded for a number of reasons including: data could not be disaggregated by gender; data were for two or more infections combined; data were collected over a period of greater than 5 years; majority of study samples collected before 2010; and secondary analyses of data where the data are available in another study. In addition, 23 papers have not yet been located.

Figure 1: STI Prevalence Atlas



1. *More details for the Anova review can be found in Section A*
2. *This list includes papers identified from the review of systematic reviews (see Section B) and various unpublished systematic reviews shared with WHO. It does not include papers from the ongoing review of country reports and studies that is ongoing (Section C).*

A. Systematic review (Gonorrhoea, Chlamydia and Trichomoniasis)

A systematic literature review was conducted by Anova Health Institute to retrieve data on the prevalence of chlamydia, gonorrhoea and trichomoniasis in low- and middle-income countries published from 2010 to date that met the STI Prevalence Atlas inclusion criteria.

1. Search Strategy and deduplication

The literature search used four databases: PubMed (last search 16 October 2025), Scopus (last search 16 October 2025), Embase (last search 28 October 2025), and Global Index Medicus (last search 28 October 2025). The search strings for each database are documented in Table A.1. The records for each database were exported into Zotero for initial deduplication and merging, and then exported into Rayyan for a second round of deduplication before screening.

2. Screening of papers

All papers were screened against six key criteria: timeframe, population, geographic scope, study focus, study design, and sample size (see Table A.2). In addition, papers were screened based on accessibility and clear duplicate papers were also excluded.

The screening of papers was done in two phases (see Figure A.1).

Phase 1: This was carried out in Rayyan and made use of Rayyan's auto-suggest features to assign AI-probability labels (likely include/maybe/likely exclude) to each record based on its relevance to the inclusion/exclusion criteria. This triage system was used to prioritise manual screening and accelerate decision-making. The records were divided between two public health analysts who screened the abstracts using AI suggestions, alongside manual screening. Screening was based on title and abstract, and the full text was checked if there was uncertainty about the relevance of a particular paper (e.g. dates, population, sample size). Difficult decisions were resolved through discussions with the project team to reach consensus.

Phase 2: The records were exported into Zotero, and screened again by two public health analysts. Screening was based on title and abstract, and the full text was checked if of dates, location, etc were uncertain. Difficult decisions were again resolved through discussions with the project team to reach consensus.

Table A.2: Study inclusion and exclusion criteria

	Inclusion	**Exclusion**
Timeframe	Published 1 January 2010 -30 October 2025	Published before 2010 Majority of data collection before 2010
Population	Human subjects	Studies on animals, in vitro, or non-human subjects
Geographic scope	Conducted in LMICs, as defined by the World Bank classification 2025 (see Annex 1)	Studies conducted in high-income countries or without clear geographic attribution to LMICs
Study focus	Reports prevalence data on Trichomoniasis, Chlamydia, or Gonorrhoea	Studies that do not report prevalence (e.g., treatment efficacy, molecular biology, diagnostics without prevalence data)

Study Design	Includes cross-sectional, population-based, or epidemiological studies that report prevalence estimates	Case reports, editorials, reviews, meta-analysis, surveillance, protocols, commentaries without original prevalence data
Sample size	≥ 100	<100
Accessibility	Full-text available or abstract provides sufficient data for screening	
Duplicates		Duplicate publications or conference abstracts superseded by full papers

3. Results

Figure A.1 shows the flow chart of the screening process.

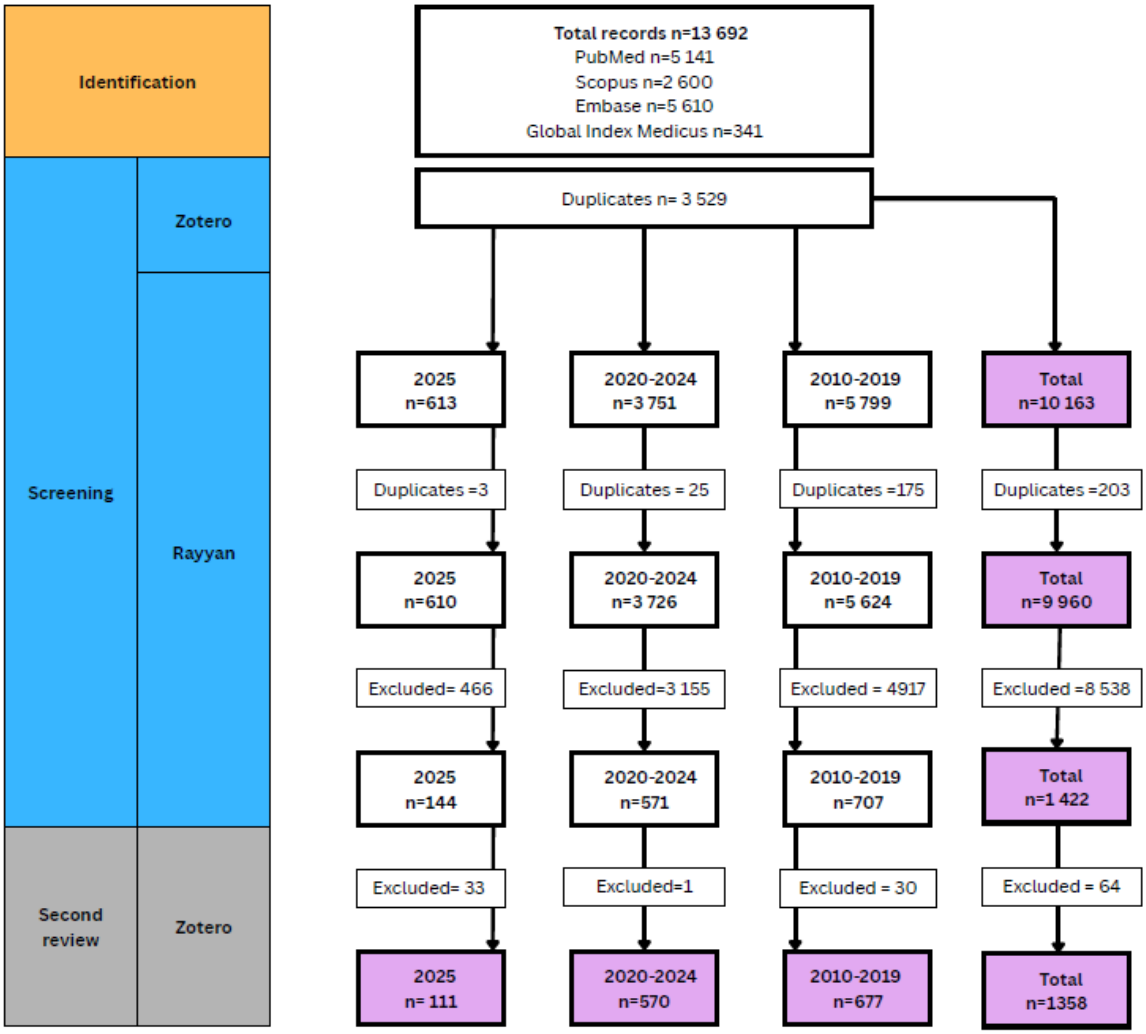


Figure A:1 Anova Search: gonorrhoea, chlamydia and trichomoniais

Table A.1: Search strings	
Embase	(('gonorrhea'/exp OR 'gonorrhea' OR 'chlamydia infection'/exp OR 'chlamydia infection' OR 'trichomonas vaginalis'/exp OR 'trichomonas vaginalis') AND ('human'/exp OR 'human') AND ('prevalence'/exp OR 'prevalence' OR 'incidence'/exp OR 'incidence' OR 'disease burden'/exp OR 'disease burden' OR 'epidemiology'/exp OR 'epidemiology') AND [2010-2025]/py) AND (('afghanistan'/exp OR 'afghanistan' OR 'albania'/exp OR 'albania' OR 'algeria'/exp OR 'algeria' OR 'american samoa'/exp OR 'american samoa' OR 'angola'/exp OR 'angola' OR 'argentina'/exp OR 'argentina' OR 'armenia'/exp OR 'armenia' OR 'azerbaijan'/exp OR 'azerbaijan' OR 'bangladesh'/exp OR 'bangladesh' OR 'belarus'/exp OR 'belarus' OR 'belize'/exp OR 'belize' OR 'bhutan'/exp OR 'bhutan' OR 'bolivia'/exp OR 'bolivia' OR 'bosnia and herzegovina'/exp OR 'bosnia and herzegovina' OR 'botswana'/exp OR 'botswana' OR 'brazil'/exp OR 'brazil' OR 'bulgaria'/exp OR 'bulgaria' OR 'burkina faso'/exp OR 'burkina faso' OR 'burundi'/exp OR 'burundi' OR 'cape verde'/exp OR 'cape verde' OR 'cambodia'/exp OR 'cambodia' OR 'cameroon'/exp OR 'cameroon' OR 'central african republic'/exp OR 'central african republic' OR 'chad'/exp OR 'chad') AND [2010-2025]/py) OR (('gonorrhea'/exp OR 'gonorrhea' OR 'chlamydia infection'/exp OR 'chlamydia infection' OR 'trichomonas vaginalis'/exp OR 'trichomonas vaginalis') AND ('human'/exp OR 'human') AND ('prevalence'/exp OR 'prevalence' OR 'incidence'/exp OR 'incidence' OR 'disease burden'/exp OR 'disease burden' OR 'epidemiology'/exp OR 'epidemiology') AND [2010-2025]/py) AND (('china'/exp OR 'china' OR 'colombia'/exp OR 'colombia' OR 'comoros'/exp OR 'comoros' OR 'congo'/exp OR 'congo' OR 'democratic republic congo'/exp OR 'democratic republic congo' OR 'costa rica'/exp OR 'costa rica' OR 'cote d`ivoire'/exp OR 'cote d`ivoire' OR 'cuba'/exp OR 'cuba' OR 'djibouti'/exp OR 'djibouti' OR 'dominica'/exp OR 'dominica' OR 'dominican republic'/exp OR 'dominican republic' OR 'ecuador'/exp OR 'ecuador' OR 'egypt'/exp OR 'egypt' OR 'el salvador'/exp OR 'el salvador' OR 'equatorial guinea'/exp OR 'equatorial guinea' OR 'eritrea'/exp OR 'eritrea' OR 'eswatini'/exp OR 'eswatini' OR 'ethiopia'/exp OR 'ethiopia') AND [2010-2025]/py) OR (('gonorrhea'/exp OR 'gonorrhea' OR 'chlamydia infection'/exp OR 'chlamydia infection' OR 'trichomonas vaginalis'/exp OR 'trichomonas vaginalis') AND ('human'/exp OR 'human') AND ('prevalence'/exp OR 'prevalence' OR 'incidence'/exp OR 'incidence' OR 'disease burden'/exp OR 'disease burden' OR 'epidemiology'/exp OR 'epidemiology') AND [2010-2025]/py) AND (('fiji'/exp OR 'fiji' OR 'gabon'/exp OR 'gabon' OR 'gambia'/exp OR 'gambia' OR 'georgia (republic)'/exp OR 'georgia (republic)' OR 'ghana'/exp OR 'ghana' OR 'grenada'/exp OR 'grenada' OR 'guatemala'/exp OR 'guatemala' OR 'guinea'/exp OR 'guinea' OR 'guinea-bissau'/exp OR 'guinea-bissau' OR 'guyana'/exp OR 'guyana' OR 'haiti'/exp OR 'haiti' OR 'honduras'/exp OR 'honduras' OR 'india'/exp OR 'india' OR 'indonesia'/exp OR 'indonesia' OR 'iran'/exp OR 'iran' OR 'iraq'/exp OR 'iraq' OR 'jamaica'/exp OR 'jamaica' OR 'jordan'/exp OR 'jordan' OR 'kazakhstan'/exp OR 'kazakhstan' OR 'kenya'/exp OR 'kenya' OR 'kiribati'/exp OR 'kiribati' OR 'north korea'/exp OR 'north korea' OR 'kosovo'/exp OR 'kosovo' OR 'kyrgyzstan'/exp OR 'kyrgyzstan' OR 'laos'/exp OR 'laos' OR 'lebanon'/exp OR 'lebanon' OR 'lesotho'/exp OR 'lesotho' OR 'liberia'/exp OR 'liberia' OR 'libyan arab jamahiriya'/exp OR 'libyan arab jamahiriya' OR 'madagascar'/exp OR 'madagascar' OR 'malawi'/exp OR 'malawi' OR 'malaysia'/exp OR 'malaysia') AND [2010-2025]/py) OR (('gonorrhea'/exp OR 'gonorrhea' OR 'chlamydia infection'/exp OR 'chlamydia infection' OR 'trichomonas vaginalis'/exp OR 'trichomonas vaginalis') AND ('human'/exp OR 'human') AND ('prevalence'/exp OR 'prevalence' OR 'incidence'/exp OR 'incidence' OR 'disease burden'/exp OR 'disease burden' OR 'epidemiology'/exp OR 'epidemiology') AND [2010-2025]/py) AND (('maldives'/exp OR 'maldives' OR 'mali'/exp OR 'mali' OR 'marshall islands'/exp OR 'marshall islands' OR 'mauritania'/exp OR 'mauritania' OR 'mauritius'/exp OR 'mauritius' OR 'mexico'/exp OR 'mexico' OR 'federated states of micronesia'/exp OR 'federated states of micronesia' OR 'moldova'/exp OR 'moldova' OR 'mongolia'/exp OR 'mongolia' OR 'montenegro (republic)'/exp OR 'montenegro (republic)' OR 'morocco'/exp

	OR 'morocco' OR 'mozambique'/exp OR 'mozambique' OR 'myanmar'/exp OR 'myanmar' OR 'namibia'/exp OR 'namibia' OR 'nepal'/exp OR 'nepal' OR 'nicaragua'/exp OR 'nicaragua' OR 'niger'/exp OR 'niger' OR 'nigeria'/exp OR 'nigeria' OR 'republic of north macedonia'/exp OR 'republic of north macedonia' OR 'pakistan'/exp OR 'pakistan' OR 'palestine'/exp OR 'palestine' OR 'panama'/exp OR 'panama' OR 'papua new guinea'/exp OR 'papua new guinea' OR 'paraguay'/exp OR 'paraguay' OR 'peru'/exp OR 'peru' OR 'philippines'/exp OR 'philippines' OR 'romania'/exp OR 'romania' OR 'rwanda'/exp OR 'rwanda' OR 'saint lucia'/exp OR 'saint lucia' OR 'samoa'/exp OR 'samoa' OR 'sao tome and principe'/exp OR 'sao tome and principe') AND [2010-2025]/py) OR (('gonorrhea'/exp OR 'gonorrhea' OR 'chlamydia infection'/exp OR 'chlamydia infection' OR 'trichomonas vaginalis'/exp OR 'trichomonas vaginalis') AND ('human'/exp OR 'human') AND ('prevalence'/exp OR 'prevalence' OR 'incidence'/exp OR 'incidence' OR 'disease burden'/exp OR 'disease burden' OR 'epidemiology'/exp OR 'epidemiology') AND [2010-2025]/py) AND (('senegal'/exp OR 'senegal' OR 'serbia'/exp OR 'serbia' OR 'sierra leone'/exp OR 'sierra leone' OR 'solomon islands'/exp OR 'solomon islands' OR 'somalia'/exp OR 'somalia' OR 'south africa'/exp OR 'south africa' OR 'south sudan'/exp OR 'south sudan' OR 'sri lanka'/exp OR 'sri lanka' OR 'saint vincent and the grenadines'/exp OR 'saint vincent and the grenadines' OR 'sudan'/exp OR 'sudan' OR 'suriname'/exp OR 'suriname' OR 'syrian arab republic'/exp OR 'syrian arab republic' OR 'tajikistan'/exp OR 'tajikistan' OR 'tanzania'/exp OR 'tanzania' OR 'thailand'/exp OR 'thailand' OR 'timor-leste'/exp OR 'timor-leste' OR 'togo'/exp OR 'togo' OR 'tonga'/exp OR 'tonga' OR 'tunisia'/exp OR 'tunisia' OR 'turkey (republic)'/exp OR 'turkey (republic)' OR 'turkmenistan'/exp OR 'turkmenistan' OR 'tuvalu'/exp OR 'tuvalu' OR 'uganda'/exp OR 'uganda' OR 'ukraine'/exp OR 'ukraine' OR 'uzbekistan'/exp OR 'uzbekistan' OR 'vanuatu'/exp OR 'vanuatu' OR 'venezuela'/exp OR 'venezuela' OR 'viet nam'/exp OR 'viet nam' OR 'yemen'/exp OR 'yemen' OR 'zambia'/exp OR 'zambia' OR 'zimbabwe'/exp OR 'zimbabwe') AND [2010-2025]/py) OR (('gonorrhea'/exp OR 'gonorrhea' OR 'chlamydia infection'/exp OR 'chlamydia infection' OR 'trichomonas vaginalis'/exp OR 'trichomonas vaginalis') AND ('human'/exp OR 'human') AND ('prevalence'/exp OR 'prevalence' OR 'incidence'/exp OR 'incidence' OR 'disease burden'/exp OR 'disease burden' OR 'epidemiology'/exp OR 'epidemiology') AND [2010-2025]/py) AND (('asia'/exp OR 'asia' OR 'far east'/exp OR 'far east' OR 'south asia'/exp OR 'south asia' OR 'western asia'/exp OR 'western asia' OR 'africa'/exp OR 'africa' OR 'south america'/exp OR 'south america' OR 'central america'/exp OR 'central america' OR 'south and central america'/exp OR 'south and central america' OR 'caribbean islands'/exp OR 'caribbean islands' OR 'caribbean'/exp OR 'caribbean' OR 'central asia'/exp OR 'central asia' OR 'eastern europe'/exp OR 'eastern europe' OR 'middle east'/exp OR 'middle east' OR 'north africa'/exp OR 'north africa' OR 'pacific islands'/exp OR 'pacific islands' OR 'southeast asia'/exp OR 'southeast asia') AND [2010-2025]/py)
PubMed	("Trichomonas vaginalis"[Title/Abstract] OR trichomoniasis[Title/Abstract] OR "Chlamydia trachomatis"[Title/Abstract] OR chlamydia[Title/Abstract] OR "Neisseria gonorrhoeae"[Title/Abstract] OR gonorrhoea[Title/Abstract] OR gonorrhea[Title/Abstract]) AND (prevalence[Title/Abstract] OR "disease prevalence"[Title/Abstract] OR "infection rate"[Title/Abstract] OR epidemiology[Title/Abstract] OR burden[Title/Abstract]) AND (Afghanistan OR Albania OR Algeria OR "American Samoa" OR Angola OR Argentina OR Armenia OR Azerbaijan OR Bangladesh OR Belarus OR Belize OR Benin OR Bhutan OR Bolivia OR "Bosnia and Herzegovina" OR Botswana OR Brazil OR Bulgaria OR "Burkina Faso" OR Burundi OR "Cabo Verde" OR Cambodia OR Cameroon OR "Central African Republic" OR Chad OR China OR Colombia OR Comoros OR Congo OR "Democratic Republic of Congo" OR "Costa Rica" OR "Côte d'Ivoire" OR Cuba OR Djibouti OR Dominica OR "Dominican Republic" OR Ecuador OR Egypt OR "El Salvador" OR "Equatorial Guinea" OR Eritrea OR Eswatini OR Ethiopia OR Fiji OR Gabon OR Gambia OR Georgia OR Ghana OR Grenada OR

	Guatemala OR Guinea OR "Guinea-Bissau" OR Guyana OR Haiti OR Honduras OR India OR Indonesia OR Iran OR Iraq OR Jamaica OR Jordan OR Kazakhstan OR Kenya OR Kiribati OR Korea OR Kosovo OR Kyrgyzstan OR Laos OR Lebanon OR Lesotho OR Liberia OR Libya OR Madagascar OR Malawi OR Malaysia OR Maldives OR Mali OR "Marshall Islands" OR Mauritania OR Mauritius OR Mexico OR Micronesia OR Moldova OR Mongolia OR Montenegro OR Morocco OR Mozambique OR Myanmar OR Namibia OR Nepal OR Nicaragua OR Niger OR Nigeria OR "North Macedonia" OR Pakistan OR Palestine OR Panama OR "Papua New Guinea" OR Paraguay OR Peru OR Philippines OR Romania OR Rwanda OR "Saint Lucia" OR Samoa OR "Sao Tome and Principe" OR Senegal OR Serbia OR "Sierra Leone" OR "Solomon Islands" OR Somalia OR "South Africa" OR "South Sudan" OR "Sri Lanka" OR "Saint Vincent and the Grenadines" OR Sudan OR Suriname OR Syria OR Tajikistan OR Tanzania OR Thailand OR "Timor-Leste" OR Togo OR Tonga OR Tunisia OR Turkey OR Turkmenistan OR Tuvalu OR Uganda OR Ukraine OR Uzbekistan OR Vanuatu OR Venezuela OR Vietnam OR Yemen OR Zambia OR Zimbabwe) AND (Africa OR Asia OR "Latin America" OR "Eastern Europe" OR "developing countries" OR "low- and middle-income countries" OR "low income countries" OR "middle income countries" OR "resource-limited settings"))
Scopus	TITLE-ABS-KEY ("Neisseria gonorrhoeae" OR gonorrhoea OR gonorrhea OR "Chlamydia trachomatis" OR chlamydia OR "Trichomonas vaginalis" OR trichomonas AND prevalence OR epidemiologY OR "disease burden" OR incidence AND Afghanistan OR Albania OR Algeria OR "American Samoa" OR Angola OR Argentina OR Armenia OR Azerbaijan OR Bangladesh OR Belarus OR Belize OR Benin OR Bhutan OR Bolivia OR Bosnia OR Botswana OR Brazil OR Bulgaria OR "Burkina Faso" OR Burundi OR "Cabo Verde" OR Cambodia OR Cameroon OR "Central African Republic" OR Chad OR China OR Colombia OR Comoros OR "Democratic Republic of Congo" OR "Republic of Congo" OR "Costa Rica" OR "Côte d'Ivoire" OR Cuba OR Djibouti OR Dominica OR "Dominican Republic" OR Ecuador OR Egypt OR "El Salvador" OR "Equatorial Guinea" OR Eritrea OR Eswatini OR Ethiopia OR Fiji OR Gabon OR Gambia OR Georgia OR Ghana OR Grenada OR Guatemala OR Guinea OR "Guinea-Bissau" OR Guyana OR Haiti OR Honduras OR India OR Indonesia OR Iran OR Iraq OR Jamaica OR Jordan OR Kazakhstan OR Kenya OR Kiribati OR "North Korea" OR Kosovo OR Kyrgyzstan OR Laos OR Lebanon OR Lesotho OR Liberia OR Libya OR Madagascar OR Malawi OR Malaysia OR Maldives OR Mali OR "Marshall Islands" OR Mauritania OR Mauritius OR Mexico OR Micronesia OR Moldova OR Mongolia OR Montenegro OR Morocco OR Mozambique OR Myanmar OR Namibia OR Nepal OR Nicaragua OR Niger OR Nigeria OR "North Macedonia" OR Pakistan OR Palestine OR Panama OR "Papua New Guinea" OR Paraguay OR Peru OR Philippines OR Romania OR Rwanda OR "Saint Lucia" OR Samoa OR "Sao Tome" OR Senegal OR Serbia OR "Sierra Leone" OR "Solomon Islands" OR Somalia OR "South Africa" OR "South Sudan" OR "Sri Lanka" OR Sudan OR Suriname OR Swaziland OR Syria OR Tajikistan OR Tanzania OR Thailand OR "Timor-Leste" OR Togo OR Tonga OR Tunisia OR Turkey OR Turkmenistan OR Tuvalu OR Uganda OR Ukraine OR Uzbekistan OR Vanuatu OR Venezuela OR Vietnam OR Yemen OR Zambia OR Zimbabwe OR "Developing Countries" OR "Low and Middle Income Countries" OR LMIC OR "resource-limited" OR Africa OR Asia OR "Latin America" OR "Caribbean Region" OR "Eastern Europe" OR "Pacific Islands" OR "Middle Africa" OR "Northern Africa" OR "Western Asia" OR "Central Asia" OR "Southeastern Asia" OR "Southern Asia") AND PUBYEAR > 2009 AND PUBYEAR < 2026 AND PUBYEAR > 2009 AND PUBYEAR < 2026 AND (LIMIT-TO (EXACTKEYWORD , "Human"))
Global Index Medicus	(("Trichomonas vaginalis" OR trichomoniasis OR "Chlamydia trachomatis" OR chlamydia OR "Neisseria gonorrhoeae" OR gonorrhoea OR gonorrhea)) AND ((prevalence OR "disease prevalence" OR epidemiology OR incidence OR burden OR "infection rate")) AND ((afghanistan OR albania OR algeria OR "American Samoa" OR angola OR argentina OR armenia OR azerbaijan OR bangladesh OR belarus OR belize OR benin OR bhutan OR bolivia OR "Bosnia and Herzegovina" OR botswana OR brazil OR bulgaria OR "Burkina Faso" OR burundi OR "Cabo Verde" OR cambodia OR cameroon OR "Central African Republic" OR chad OR china OR colombia OR comoros OR congo OR "Democratic Republic of Congo" OR "Costa Rica" OR "Côte d'Ivoire" OR cuba OR djibouti OR dominica OR "Dominican Republic" OR ecuador OR egypt OR "El Salvador" OR "Equatorial Guinea"

	OR eritrea OR eswatini OR ethiopia OR fiji OR gabon OR gambia OR georgia OR ghana OR grenada OR guatemala OR guinea OR "Guinea-Bissau" OR guyana OR haiti OR honduras OR india OR indonesia OR iran OR iraq OR jamaica OR jordan OR kazakhstan OR kenya OR kiribati OR korea OR kosovo OR kyrgyzstan OR laos OR lebanon OR lesotho OR liberia OR libya OR madagascar OR malawi OR malaysia OR maldives OR mali OR "Marshall Islands" OR mauritania OR mauritius OR mexico OR micronesia OR moldova OR mongolia OR montenegro OR morocco OR mozambique OR myanmar OR namibia OR nepal OR nicaragua OR niger OR nigeria OR "North Macedonia" OR pakistan OR palestine OR panama OR "Papua New Guinea" OR paraguay OR peru OR philippines OR romania OR rwanda OR "Saint Lucia" OR samoa OR "Sao Tome and Principe" OR senegal OR serbia OR "Sierra Leone" OR "Solomon Islands" OR somalia OR "South Africa" OR "South Sudan" OR "Sri Lanka" OR "Saint Vincent and the Grenadines" OR sudan OR suriname OR syria OR tajikistan OR tanzania OR thailand OR "Timor-Leste" OR togo OR tonga OR tunisia OR turkey OR turkmenistan OR tuvalu OR uganda OR ukraine OR uzbekistan OR vanuatu OR venezuela OR vietnam OR yemen OR zambia OR zimbabwe OR "low- and middle-income countries" OR lmic OR "developing countries" OR "resource-limited settings" OR africa OR asia OR "Latin America" OR "Eastern Europe")) AND (year_cluster:[2010 TO 2025])

B. Published systematic reviews of the prevalence of STIs

As of 18 January 2026, 73 published systematic reviews have been identified and 65 of them have been screened for eligible studies containing data on the prevalence of chlamydia, gonorrhoea, HSV-2, syphilis or trichomoniasis.

1. Papers screened for eligible studies as of 18 January 2026

- Ageeb RA, Almukdad S, Alalami H, Harfouche M, Abu-Raddad LJ. Epidemiology of Neisseria gonorrhoeae in South-East Asia: Systematic review, meta-analyses, and meta-regressions. J Infect. 2025 Aug;91(2):106545. doi: 10.1016/j.jinf.2025.106545. Epub 2025 Jun 26. PMID: 40581330.
- Akter T, Festin M, Dawson A. Hormonal contraceptive use and the risk of sexually transmitted infections: a systematic review and meta-analysis. Sci Rep. 2022 Nov 25;12(1):20325. doi: 10.1038/s41598-022-24601-y. PMID: 36434126; PMCID: PMC9700818.
- Alareeki A, Osman AMM, Khandakji MN, Looker KJ, Harfouche M, Abu-Raddad LJ. Epidemiology of herpes simplex virus type 2 in Europe: systematic review, meta-analyses, and meta-regressions. Lancet Reg Health Eur. 2022 Dec 12;25:100558. doi: 10.1016/j.lanepe.2022.100558. PMID: 36818238; PMCID: PMC9929610.
- Alhusseini LB, Hasani B, Jaafar FN, Beig M, Abbasian S, Azizian K. Temporal and geographic trends in extended-spectrum cephalosporins resistance among Neisseria gonorrhoeae isolates worldwide: a systematic review and meta-analysis. BMC infectious diseases. 2025;25(1):1175.
- AlMukdad S, Harfouche M, Wettstein A, Abu-Raddad LJ. Epidemiology of herpes simplex virus type 2 in Asia: A systematic review, meta-analysis, and meta-regression. Lancet Reg Health West Pac. 2021 Jun 9;12:100176. doi: 10.1016/j.lanwpc.2021.100176. PMID: 34527970; PMCID: PMC8356094.
- Arbabi M, Delavari M, Fakhrieh-Kashan Z, Hooshyar H. Review of *Trichomonas vaginalis* in Iran, Based on Epidemiological Situation. J Reprod Infertil. 2018 Apr-Jun;19(2):82-88. PMID: 30009141; PMCID: PMC6010820.
- Bardach A, Alconada T, Palermo C, Rojas-Roque C, Sandoval MM, Gomez J, Pinto T, Ciapponi A. Burden of Disease of Gonorrhoea in Latin America: Systematic Review and Meta-analysis. Infect Dis Ther. 2023 Jun;12(6):1505-1525. doi: 10.1007/s40121-023-00814-0. Epub 2023 Jun 1. PMID: 37261611; PMCID: PMC10281939.
- Beyhan YE. A systematic review of Trichomonas vaginalis in Turkey from 2002 to 2020. Acta Trop. 2021 Sep;221:105995. doi: 10.1016/j.actatropica.2021.105995. Epub 2021 Jun 5. PMID: 34097909.
- Celeghini PD, Cotia ALF, Hsieh MK, Callado GY, Lin V, Holubar M, et al. Systematic literature review and meta-analysis of urinary tract infections and sexually transmitted infections in symptomatic

women: prevalence, patterns and clinical implications. Gynecology and Obstetrics Clinical Medicine. 2025;5(3).
- Chemaitelly H, Harfouche M, Smolak A, Ageeb R, Mohamoud YA, Alaama AS, Hermez JG, Abu-Raddad LJ. Epidemiology of gonorrhea in countries of the Middle East and North Africa: systematic review, meta analyses, and meta regressions. BMC Glob Public Health. 2024 Aug 19;2(1):56. doi: 10.1186/s44263-024-00088-9. PMID: 39681952; PMCID: PMC11622951.
- Chico RM, Mayaud P, Ariti C, Mabey D, Ronsmans C, Chandramohan D. Prevalence of malaria and sexually transmitted and reproductive tract infections in pregnancy in sub-Saharan Africa: a systematic review. JAMA. 2012 May 16;307(19):2079-86. doi: 10.1001/jama.2012.3428. PMID: 22665107.
- Chidiac O, AlMukdad S, Harfouche M, Harding-Esch E, Abu-Raddad LJ. Epidemiology of gonorrhoea: systematic review, meta-analyses, and meta-regressions, World Health Organization European Region, 1949 to 2021. Euro Surveill. 2024 Feb;29(9):2300226. doi: 10.2807/1560-7917.ES.2024.29.9.2300226. PMID: 38426239; PMCID: PMC10986664.
- Davies EP, Tsuboi M, Evans J, Rowley J, Korenromp EL, Clayton T, Chico RM. A global meta-analysis of gonorrhoea and chlamydia prevalence among men who have sex with men from 2000 to 2022. Int J STD AIDS. 2025 Jul;36(8):611-621. doi: 10.1177/09564624251333489. Epub 2025 Apr 21. PMID: 40258802; PMCID: PMC12198469.
- Dielissen PW, Teunissen DA, Lagro-Janssen AL. Chlamydia prevalence in the general population: is there a sex difference? a systematic review. BMC Infect Dis. 2013 Nov 11;13:534. doi: 10.1186/1471-2334-13-534. PMID: 24215287; PMCID: PMC4225722.
- Dubbink JH, Verweij SP, Struthers HE, Ouburg S, McIntyre JA, Morré SA, Peters RP. Genital Chlamydia trachomatis and Neisseria gonorrhoeae infections among women in sub-Saharan Africa: A structured review. Int J STD AIDS. 2018 Jul;29(8):806-824. doi: 10.1177/0956462418758224. Epub 2018 Feb 28. PMID: 29486628.
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2. Papers still to be screened/ checked

Syphilis studies to review

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- Rattanatham R, Mala W, Kotepui KU, Masangkay FR, Rattanawan C, Lasom S, Wangdi K, Kotepui M. A systematic review and meta-analysis of the prevalence and risk of syphilis among blood donors in Thailand. Sci Rep. 2025 Mar 18;15(1):9316. doi: 10.1038/s41598-025-94332-3. PMID: 40102537; PMCID: PMC11920362.

Chinese studies to review

- Li S, Xu J, Ru S, Hu C, Liu C, Sun X, et al. Prevalence of Trichomonas vaginalis Among Women in the Chinese Population: A Systematic Review and Meta-Analysis. Tropical Medicine and Infectious Disease. 2025;10(4).
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C. Review of country studies and reports conducted in key populations (e.g. IBBS reports)

UNAIDS maintains a repository of country reports on the prevalence of HIV in key populations. The reports in the repository as of 30 October 2025 were screened to identify the subset that potentially had data on the prevalence of chlamydia, gonorrhoea, syphilis or trichomoniasis from 2010 or later. Of the 1,129 reports in the repository 307 were identified as potentially having data and are being reviewed to identify those that contain eligible data not currently in the STI Prevalence Atlas or in a paper scheduled for extraction.