Supplementary Material: Additional inserts of methods and results

Table of Contents

Supplementary Table S1. Preferred Reporting Items for Systematic Reviews and Meta-analyses (PRISMA) checklist [1].

Section and topic	Item #	Checklist item	Location where item is reported
Title			
Title	1	Identify the report as a systematic review.	Title
Abstract			
Abstract	2	See the PRISMA 2020 for Abstracts checklist (table 2).	Abstract section
Introduction			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Introduction section
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Introduction section
Methods			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Methods: Study selection eligibility criteria and section
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Methods: Data sources and search strategy section; Study selection and eligibility criteria section
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Methods: Data sources and search strategy section; Supplementary Box S1
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Methods: Study selection and eligibility criteria section
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Methods: Data extraction and synthesis section
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g., for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Methods: Study selection and eligibility criteria section; Data extraction and synthesis section; Supplementary Box S2
	10b	List and define all other variables for which data were sought (e.g., participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Methods: Study selection and eligibility criteria section; Data extraction and synthesis section; Box 2; Supplementary Box S2
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Methods: Precision and risk of bias assessments section
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Methods: Meta-analyses section; Meta-regressions section; Supplementary Box S3
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Methods: Meta-analyses section; Meta-regressions section; Supplementary Box S3
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Methods: Meta-analyses section; Meta-regressions section
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Methods: Meta-analyses section; Meta-regressions section
	13d	Describe any methods used to synthesise results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Methods: Meta-analyses section
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, metaregression).	Methods: Meta-regressions section; Supplementary Box S3

	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesised results.	Methods: Meta-analyses section; Meta-regressions section
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	N/A
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	N/A
Results			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram (see fig 1).	Results: Search results section; Figure 1
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Results: Search results section; Figure 1
Study characteristics	17	Cite each included study and present its characteristics.	Results: Scope of evidence for the prevalence measures section; Tables 1-3; Supplementary Box S4
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Results: Precision and risk of bias assessments section; Supplementary Table S3
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	Tables 1-6; Supplementary Figure S1
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Results: Precision and risk of bias assessments section; Supplementary Table S3
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	Results: Pooled estimates for NG prevalence section; Tables 1-3; Supplementary Figure S1
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Results: Associations with NG prevalence section; Tables 4-6
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesised results.	Results: Sensitivity analyses to confirm the findings section; Supplementary Tables S4-S6; Supplementary Figure S2
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	N/A
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	N/A
Discussion			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Discussion section
	23b	Discuss any limitations of the evidence included in the review.	Discussion section
	23c	Discuss any limitations of the review processes used.	Discussion section
	23d	Discuss implications of the results for practice, policy, and future research.	Conclusions section
Other information			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	N/A
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	N/A
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	N/A
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Funding statement
Competing interests	26	Declare any competing interests of review authors.	Conflict of interest statement

Availability of data, code, and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Data availability statement

Abbreviations: NA: Not applicable, NG: *Neisseria gonorrhoeae*.

Supplementary Box S1. Search strategies used to identify studies reporting *Neisseria gonorrhoeae* infection prevalence in Europe.

PubMed
"Neisseria gonorrhoeae"[Mesh] OR "Gonorrhea"[Mesh] OR "Pelvic Inflammatory Disease"[Mesh] OR "Epididymitis"[Mesh] OR "Orchitis"[Mesh] OR "Seminal vesicles"[Mesh] OR "Neisseria gonorrhoeae"[Text] OR "Gonorrhoeae"[Text] OR "Gonorrhea"[Text] OR "Gonococcus"[Text] OR "Gonococci"[Text] OR "Gonococcal"[Text] OR "Gonococcal infection"[Text] OR "Pelvic inflammatory disease"[Text] OR "Gonococcal epididymitis"[Text] OR "Orchi-epididymitis"[Text] OR "Orchiepididymitis"[Text] OR "seminal vesicle disease"[Text] OR "Seminal vesiculitis"[Text] OR "Infertility"[Mesh] OR "Fertility"[Mesh] OR "Reproductive Techniques, Assisted"[Mesh] OR "Infertility"[Text] OR "Infertile"[Text] OR "Fertility"[Text] OR "Reproductive"[Text] OR "Subfertility"[Text] OR "Subfertile"[Text] OR "Sub-fertility"[Text] OR "Sub-fertile"[Text] AND ("Europe"[MeSH] OR "Israel"[MeSH] OR "Turkey"[MeSH] OR "USSR"[MeSH] OR "Cyprus"[MeSH] OR Albania*[Text] OR Andorra*[Text] OR Armenia*[Text] OR Austria*[Text] OR Azerbaijan*[Text] OR Belarus*[Text] OR Belgi*[Text] OR Bosnia*[Text] OR Bosnia and Herzegovina[Text] OR Bulgaria*[Text] OR Croatia*[Text] OR Cypr*[Text] OR Czech Republic[Text] OR Czech*[Text] OR Denmark*[Text] OR Danish[Text] OR Estonia*[Text] OR Finland*[Text] OR Finnish[Text] OR France*[Text] OR French[Text] OR Georgia*[Text] OR German*[Text] OR Gree*[Text] OR Hungar*[Text] OR Iceland*[Text] OR Ireland*[Text] OR Irish[Text] OR Israel*[Text] OR Ital*[Text] OR Kazakh*[Text] OR Kyrgyz*[Text] OR Latvia*[Text] OR Lithuania*[Text] OR Luxembourg*[Text] OR Malta*[Text] OR Monac*[Text] OR Montenegr*[Text] OR Netherlands*[Text] OR Dutch[Text] OR Norway*[Text] OR Norweg*[Text] OR Poland*[Text] OR Polish[Text] OR Portug*[Text] OR Republic of Moldova*[Text] OR Moldov*[Text] OR Romania*[Text] OR Russia*[Text] OR Russian Federation*[Text] OR San Marino*[Text] OR Serbia*[Text] OR Slovakia*[Text] OR Slovenia*[Text] OR Spain*[Text] OR Spanish[Text] OR Swed*[Text] OR Switzerland*[Text] OR Swiss[Text] OR Tajik*[Text] OR Yugoslav*[Text] OR Republic of Macedonia*[Text] OR Macedonia*[Text] OR Turkey*[Text] OR Turkmen*[Text] OR Ukrain*[Text] OR United Kingdom*[Text] OR Great Britain*[Text] OR UK[Text] OR Uzbek*[Text])
Embase
exp gonorrhea / or exp 6eisseria gonorrhoeae / or exp epididymitis / or exp orchitis / or exp pelvic inflammatory disease/ or gonorrhea.mp. or 6eisseria gonorrhoeae.mp. or gonorrhoeae.mp. or gonococcus.mp. or gonococci.mp. or gonococcal.mp. or gonococcal infection.mp. or pelvic inflammatory disease.mp. or gonococcal epididymitis.mp. or orchi-epididymitis.mp. or orchiepididymitis.mp. or seminal vesicle disease.mp. or seminal disease.mp. or seminal vasculitis.mp. or exp infertility/ or exp fertility/ or exp infertility therapy/ or exp reproductive procedure/ or reproductive.mp. or infertility.mp. or infertile.mp. or fertility.mp. or subfertility.mp. or subfertile.mp. or sub-fertility.mp. or sub-fertile.mp. and (exp Europe/ or exp Cyprus/ or exp Israel/ or exp USSR or exp Turkey republic/) or (Albania* or Andorra* or Armenia* or Austria* or Azerbaijan* or Belarus* or Belgi* or Bosnia* or Bosnia and Herzegovina or Bulgaria* or Croatia* or Cypr* or Czech Republic* or Czech* or Denmark* or Danish* or Estonia* or Finland* or Finnish* or France* or French* or Georgia* or German* or Gree* or Hungar* or Iceland* or Ireland* or Irish* or Israel* or Ital* or Kazakh* or Kyrgyz* or Latvia* or Lithuania* or Luxembourg* or Malta* or Monac* or Montenegr* or Netherlands* or Dutch* or Norway* or Norweg* or Poland* or Polish* or Portug* or Republic of Moldova* or Moldov* or Romania* or Russia* or Russian Federation* or San Marino* or Serbia* or Slovakia* or Slovenia* or Spain* or Spanish* or Swed* or Switzerland* or Swiss* or Tajik* or Yugoslav Republic of Macedonia* or Macedonia* or Turk* or Turkmen* or Ukrain* or United Kingdom* or Great Britain* or UK or Uzbek*).mp.

Abbreviations: NG: Neisseria gonorrhoeae; USSR: Union of Soviet Socialist Republics.

Supplementary Box S2. Variables extracted from relevant reports meeting the inclusion criteria.

- Author(s)
- Year of publication
- Full citation
- Country
- City
- Study design
- Sampling methodology
- Year(s) of data collection
- Study site
- Study population
- Population characteristics (e.g., sex and age)
- Response rate
- Sample size of tested population
- Number of participants positive for *Neisseria gonorrhoeae* infection
- Reported *N. gonorrhoeae* prevalence
- Anatomical site urogenital (urethral, vaginal, endocervical, urine, and semen), anorectal, oropharyngeal, serum, and unclear)
- Type of assay used for gonorrhea infection ascertainment (nucleic acid amplification test/polymerase chain reaction, culture, gram staining, direct fluorescent antibody assay, blood tested for antibodies, unclear)

Supplementary Table S2. Range of quality components applicable to prevalence studies [2].

1. Was the study's target population a close representation of the national population in relation to relevant variables?	Met in the study design. The study investigated prevalence in all population groups. The meta-regression analyses also explored the impact of sampling method on observed prevalence.
2. Was the sampling frame a true or close representation of the target population?	Met in the study design. Included as the probability-based vs. non-probability-based sampling domain. The meta-regression analyses also explored the impact of sampling method on observed prevalence.
3. Was some form of random selection used to select the sample, OR was a census undertaken?	Met in the study design. Included as the probability-based vs. non-probability-based sampling domain. The meta-regression analyses also explored the impact of sampling method on observed prevalence.
4. Was the likelihood of nonresponse bias minimal?	Met in the study design. Included as the response rate domain.
Internal validity	**Relevance to our study**
5. Were data collected directly from the subjects (as opposed to a proxy)?	Met in the study design. The inclusion criteria specified that only studies based on biomarkers collected directly from individuals are included.
6. Was an acceptable case definition used in the study?	Met in the study design. A standardized and consistent case definition was used, that of *Neisseria gonorrhoeae* infection.
7. Was the study instrument that measured the parameter of interest shown to have validity and reliability?	Met in the study design. Only studies that used diagnostic assays measuring specific biomarkers were included. The reported assays have acceptable specificity and sensitivity and are commonly used in research and clinical settings. The meta-regression analyses also explored the impact of assay type on observed prevalence.
8. Was the same mode of data collection used for all subjects?	Met in the study design. It is standard for STI studies involving biomarkers, by design, to use a consistent mode of data collection from all subjects recruited for a study, including specimen type and assay type.
9. Was the length of the shortest prevalence period for the parameter of interest appropriate?	Met in the study design. Included studies reported point prevalence measures, that is prevalence based on a cross-section survey at a specific and defined time.
10. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Met in the study design. The numerator and denominator were defined with no ambiguity: number of positive *N. gonorrhoeae* cases over total number of tested subjects.

STI: Sexually transmitted infection.

Supplementary Box S3. Predictors selected a priori and included in univariable and multivariable meta-regression analyses.

1- Population type as defined in Box 2
2- Sex
3- Age groups classified to best fit reported data as:
    - <20 years old
    - 20-29 years old
    - 30-39 years old
    - ≥40 years old
    - Mixed ages
4- Europe subregion as defined in Box 1
5- National income as classified by the World Bank [3]
6- Assay type:
    - NAAT/PCR
    - Culture
    - Gram staining
    - Other[a]
7- Sample size:
    - <200
    - ≥200
8- Sampling method:
    - Probability-based sampling
    - Non-probability-based sampling
9- Response rate:
    - ≥80%
    - <80%
    - Unclear
10- Year of data collection category
    - <2000
    - 2000-2010
    - >2010
11- Year of data collection as a linear term
12- Year of publication category
    - <2005
    - 2005-2014
    - ≥2015
13- Year of publication as a linear term

[a]Other assays include unclear testing technique, enzyme immunoassay, complement fixation, or mixed testing techniques.
Abbreviations: NAAT: Nucleic acid amplification test; PCR: Polymerase chain reaction.

Supplementary Box S4. List of articles from which *Neisseria gonorrhoeae* prevalence measures in Europe were extracted.

1. Achterbergh R, van der Helm JJ, van den Boom W, et al. Is rectal douching and sharing douching equipment associated with anorectal chlamydia and gonorrhoea? A cross-sectional study among men who have sex with men. Sex Transm Infect 2017; 93(6): 431-7.
2. Achterbergh RCA, Drückler S, van Rooijen MS, et al. Sex, drugs, and sexually transmitted infections: A latent class analysis among men who have sex with men in Amsterdam and surrounding urban regions, the Netherlands. Drug Alcohol Depend 2020; 206: 107526.
3. Acik Y, Gungor L, Asci Toraman Z. Prevalance and clinical importance of some pathogen microorganisms found in the cervix of women who apply for voluntary abortion. [Turkish]. Erciyes Tip Dergisi 2004; 26(2): 55-61.
4. Adelantado Lacasa M, Beristain X. Prevalence of Mycoplasma genitalium infection and antibiotic resistance in Navarra (North Spain). Sex Transm Infect 2019; 95(7): 549.
5. Adler MW. Trends for gonorrhea and pelvic inflammatory disease in England and Wales and for gonorrhea in a defined population. Am J Obstet Gynecol 1980; 138(7 Pt 2): 901-4.
6. Adler MW, Belsey EM, Rogers JS. Sexually transmitted diseases in a defined population of women. Br Med J (Clin Res Ed) 1981; 283(6283): 29-32.
7. Agacfidan A, Moncada J, Aydin D, et al. Prevalence of Chlamydia trachomatis and Neisseria gonorrhoeae in Turkey among men With urethritis. Sex Transm Dis 2001; 28(11): 630-2.
8. Aguirrebengoa O, Vera Garcia M, Arias Ramirez D, et al. Low use of condom and high STI incidence among men who have sex with men in PrEP programs. PLoS One 2021; 16(2): e0245925.
9. Agusti C, Montoliu A, Mascort J, et al. Missed opportunities for HIV testing of patients diagnosed with an indicator condition in primary care in Catalonia, Spain. Sex Transm Infect 2016; 92(5): 387-92.
10. Ahmed-Jushuf IH, Arya OP, Hobson D, et al. Ciprofloxacin treatment of chlamydial infections of urogenital tracts of women. Genitourinary Medicine 1988; 64(1): 14-7.
11. Akgul A, Kadioglu A, Koksal MO, Ozmez A, Agacfidan A. Sexually transmitted agents and their association with leucocytospermia in infertility clinic patients. Andrologia 2018; 50(10): e13127.
12. Akhvlediani T, Mdivani K, Ispireli M, et al. Sexually transmitted infections in military personnel in the country of Georgia. International Journal of STD and AIDS 2015; 1): 112.
13. Al-Jilaihawi S, Borg K, Jamieson K, Maguire S, Hodes D. Clinical characteristics of children presenting with a suspicion or allegation of historic sexual abuse. Archives of Disease in Childhood 2018; 103(6): 533-9.
14. Albus C, Köhler G. [Is there is seasonal incidence of acute adnexitis?]. Zentralbl Gynakol 1988; 110(13): 824-6.
15. Alexandre C. [Study of 534 cases of lowered male fertility]. Gynecol Obstet (Paris) 1971; 70(4): 377-400.
16. Almeida N, Melo M, Soares I, Carvalho H. [Screening of Human Immunodeficiency Virus and Other Sexually Transmitted Infections in a Group of Sex Workers in Indoor Settings in the Porto Metropolitan Area]. Acta Med Port 2020; 33(3): 166-73.
17. Amirkhanian YA, Kelly JA, Kabakchieva E, et al. High-risk sexual behavior, HIV/STD prevalence, and risk predictors in the social networks of young Roma (Gypsy) men in Bulgaria. J Immigr Minor Health 2013; 15(1): 172-81.
18. Andersen BL, Nielsen FH. [Gonorrhoea in young women admitted to a gynaecology department]. Ugeskr Laeger 1974; 136(36): 2027-9.
19. Andersson N, Allard A, Lidgren Y, Boman J, Nylander E. Are Urogenital Symptoms Caused by Sexually Transmitted Infections and Colonizing Bacteria? J Low Genit Tract Dis 2021b; 25(3): 232-5.
20. Andersson N, Ejnestrand J, Lidgren Y, Allard A, Boman J, Nylander E. Are Swedish swingers a risk group for sexually transmitted infections? Int J STD AIDS 2021a; 32(5): 427-34.
21. Anestad G, Bruu AL, Thorvaldsen J, et al. [Urogenital Chlamydia trachomatis infection in a student population]. Tidsskr Nor Laegeforen 1984; 104(7): 499-502.
22. Anisimova N, Ivanova T, Guschin A, et al. Undiscovered burden of stis in Russia: Current system shortcomings. Sexually Transmitted Infections 2011; 1): A100-A1.
23. Annan NT, Sullivan AK, Nori A, et al. Rectal chlamydia--a reservoir of undiagnosed infection in men who have sex with men. Sex Transm Infect 2009; 85(3): 176-9.
24. Ansart S, Hochedez P, Perez L, Bricaire F, Caumes E. Sexually transmitted diseases diagnosed among travelers returning from the tropics. J Travel Med 2009; 16(2): 79-83.
25. Apers L, Florence E, Crucitti T, Anwar N. Lymphogranuloma venereum among patients presenting at the HIV/STI clinic in Antwerp, Belgium: A case series. Acta Gastro-Enterologica Belgica 2017; 80(3): 385-7.
26. Apers L, Koole O, Bottieau E, et al. Incidence of HCV and sexually transmitted diseases among hiv positive msm in antwerp, belgium, 2001-2011. Acta Clin Belg 2013; 68(6): 421-6.
27. Arando M, Fernandez-Naval C, Mota-Foix M, et al. Early syphilis: risk factors and clinical manifestations focusing on HIV-positive patients. BMC Infect Dis 2019; 19(1): 727.
28. Arumainayagam JT, de Silva Y, Shahmanesh M. Anaerobic vaginosis: study of male sexual partners. Int J STD AIDS 1991; 2(2): 102-4.
29. Arvidson M, Hellberg D, Mårdh PA. Sexually transmitted diseases in Swedish women with experience of casual sex with men of foreign nationalities within Sweden. Acta Obstet Gynecol Scand 1995; 74(10): 794-8.
30. Arya OP, Hobson D, Hart CA, Bartzokas C, Pratt BC. Evaluation of ciprofloxacin 500 mg twice daily for one week in treating uncomplicated gonococcal, chlamydial, and non-specific urethritis in men. Genitourinary Medicine 1986; 62(3): 170-4.
31. Arya OP, Mallinson H, Goddard AD. Epidemiological and clinical correlates of chlamydial infection of the cervix. Br J Vener Dis 1981; 57(2): 118-24.
32. Asicioglu O, Gungorduk K, Ozdemir A, et al. Single daily dose of moxifloxacin versus ofloxacin plus metronidazole as a new treatment approach to uncomplicated pelvic inflammatory disease: a multicentre prospective randomized trial. Eur J Obstet Gynecol Reprod Biol 2013; 171(1): 116-21.
33. Asmaryan A, Grigoryan S, Hovhannisyan E. Unprotected sex with non-commercial partners as the main risk factor to get sti for female sex workers in armenia. Sexually Transmitted Infections 2017; 93(Supplement 2): A98-A9.
34. Asmaryan A, Papoyan A, Hakobyan A, et al. Prevalence of STI/HIV and assessment of risky behaviours among sex workers. Sexually Transmitted Infections Conference: STI and AIDS World Congress 2013; 89(SUPPL. 1).
35. Avonts D, Piot P. Genital infections in women undergoing therapeutic abortion. Eur J Obstet Gynecol Reprod Biol 1985; 20(1): 53-9.
36. Avonts D, Sercu M, Heyerick P, Vandermeeren I, Piot P. Sexually transmitted diseases and Chlamydia trachomatis in women consulting for contraception. J R Coll Gen Pract 1989; 39(327): 418-20.
37. Ayerdi Aguirrebengoa O, Vera Garcia M, Rueda Sanchez M, et al. Risk factors associated with sexually transmitted infections and HIV among adolescents in a reference clinic in Madrid. PLoS One 2020; 15(3): e0228998.
38. Bacon PM. Social distribution of sexually transmitted diseases. A survey of female clinic registrations. Br J Vener Dis 1979; 55(4): 295-9.
39. Bailey JV, Farquhar C, Owen C, Mangtani P. Sexually transmitted infections in women who have sex with women. Sex Transm Infect 2004; 80(3): 244-6.

40. Balbi G, Piscitelli V, Di Grazia F, Martini S, Balbi C, Cardone A. [Acute pelvic inflammatory disease: comparison of therapeutic protocols]. Minerva Ginecol 1996; 48(1-2): 19-23.
41. Banani S, Schlaeffer F, Leibenson L, et al. [Prevalence of sexually transmitted diseases (STD) in HIV positive women in southern Israel]. Harefuah 2013; 152(4): 204-6, 48.
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43. Bardov PV, Lebediuk MM, Stepanenko VI. [Complex diagnosis of chronic prostatitis complicated by disorders in sexual and reproductive functions]. Lik Sprava 2001; (3): 77-81.
44. Barlow D, Nayyar K, Phillips I, Barrow J. Diagnosis of gonorrhoea in women. Br J Vener Dis 1976; 52(5): 326-8.
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46. Bartholomew RD, Kerry-Barnard S, Beckley-Hoelscher ND, et al. Alcohol use, cigarette smoking, vaping and number of sexual partners: A cross-sectional study of sexually active, ethnically diverse, inner city adolescents. Health Expect 2021; 24(3): 1009-14.
47. Bartunek J, Scholtes G. [Significance of modern gonorrhea diagnostics in the management of inflammatory gynecologic diseases]. Geburtshilfe Frauenheilkd 1972; 32(11): 928-31.
48. Bassiri M, Mårdh PA, Domeika M. Multiplex AMPLICOR PCR screening for Chlamydia trachomatis and Neisseria gonorrhoeae in women attenting non-sexually transmitted disease clinics. The European Chlamydia Epidemiology Group. J Clin Microbiol 1997; 35(10): 2556-60.
49. Bayette J, Jreige R, Marchandin H, et al. [Prevalence of Chlamydia trachomatis, Neisseria gonorrhoeae and Mycoplasma genitalium infections in the emergency department]. Pathol Biol (Paris) 2013; 61(6): 245-9.
50. Bebear C, Le Roy C, Le Hen I, et al. Performance of the Bio-Rad Dx CT/NG/MG assay for simultaneous detection of chlamydia trachomatis, Neisseria gonorrhoeae and mycoplasma genitalium in urogenital samples. Sexually Transmitted Infections 2011; 1): A74.
51. Beckett H, Nulty K, Barber T. Assessing self-taken vaginal swabs compared to clinician sampling in women presenting with vaginal discharge only in our central London location. HIV Medicine 2018; 19(Supplement 2): S128.
52. Bell G, Ward H, Day S, et al. Partner notification for gonorrhoea: a comparative study with a provincial and a metropolitan UK clinic. Sex Transm Infect 1998; 74(6): 409-14.
53. Beltrami C, Manfredi R, D'Antuono A, Chiodo F, Varotti C. Sexually-transmitted infections in adolescents and young adults in a large city of Northern Italy: a nine-year prospective survey. New Microbiol 2003; 26(3): 233-41.
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55. Benjamin L, Araujo MA, Martin-Bouyer G. [Asymptomatic cases of gonorrhea and syphilis in 2 family planning clinics in the Paris Region]. Gynecologie 1978; 29(3): 303-7.
56. Benn PD, Rooney G, Carder C, et al. Chlamydia trachomatis and Neisseria gonorrhoeae infection and the sexual behaviour of men who have sex with men. Sex Transm Infect 2007; 83(2): 106-12.
57. Bennett A, Jeffery K, O'Neill E, Sherrard J. Outbreak or illusion: Consequences of "improved" diagnostics for gonorrhoea. Sexually Transmitted Infections 2015; 1): A23-A4.
58. Bercot B, Amarsy R, Goubard A, et al. Assessment of coinfection of sexually transmitted pathogen microbes by use of the anyplex II STI-7 molecular kit. J Clin Microbiol 2015; 53(3): 991-3.
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Supplementary Table S3. Number of *Neisseria gonorrhoeae* prevalence measures by European subregion and country/territory.

European subregion	European country	Number of *Neisseria gonorrhoeae* prevalence measures
Eastern Europe	Bulgaria	10
	Czech Republic	29
	Hungary	7
	Poland	10
	Romania	5
	Russian Federation	45
	Slovakia	1
	Ukraine	6
	Overall	**113**
Northern Europe	Denmark	74
	Estonia	9
	Finland	16
	Greenland	13
	Iceland	6
	Ireland	19
	Latvia	1
	Lithuania	1
	Norway	38
	Sweden	67
	United Kingdom	441
	Overall	**685**
Southern Europe	Croatia	9
	Greece	7
	Italy	58
	Portugal	13
	Slovenia	10
	Spain	87
	Overall	**184**
Western Europe	Austria	15
	Belgium	27
	France	87
	Germany	69
	Netherlands	289
	Switzerland	34
	Overall	**521**
Intersection of Europe and Asia	Armenia	7
	Azerbaijan	2
	Cyprus	1
	Georgia	4
	Tajikistan	1
	Overall	**15**
Other	Israel	25
	Turkey	27
	Mixed regions	3
	Overall	**55**

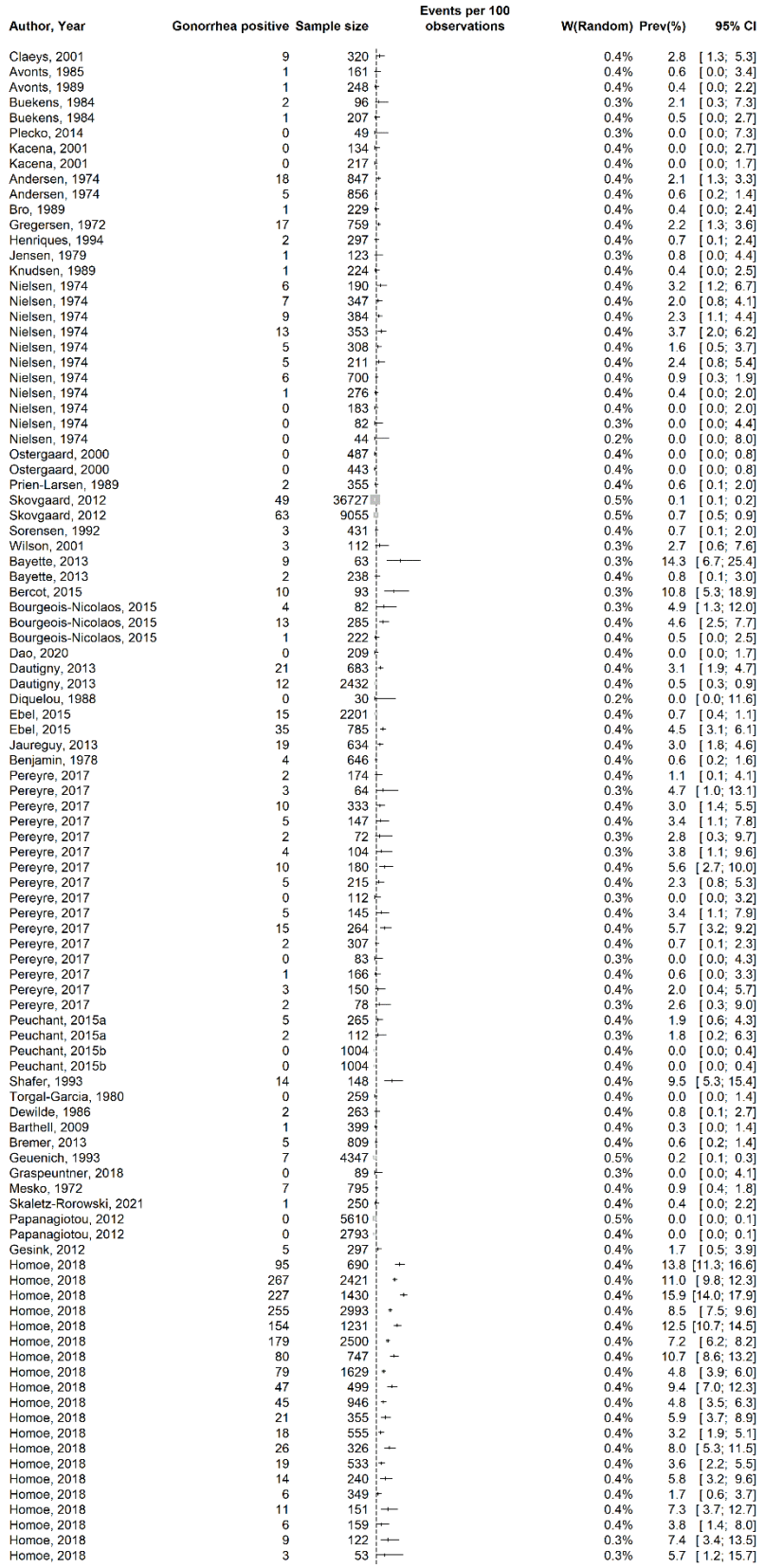
Supplementary Table S4. Summary of precision assessment and risk of bias (ROB) assessment for studies reporting *Neisseria gonorrhoeae* prevalence in Europe.

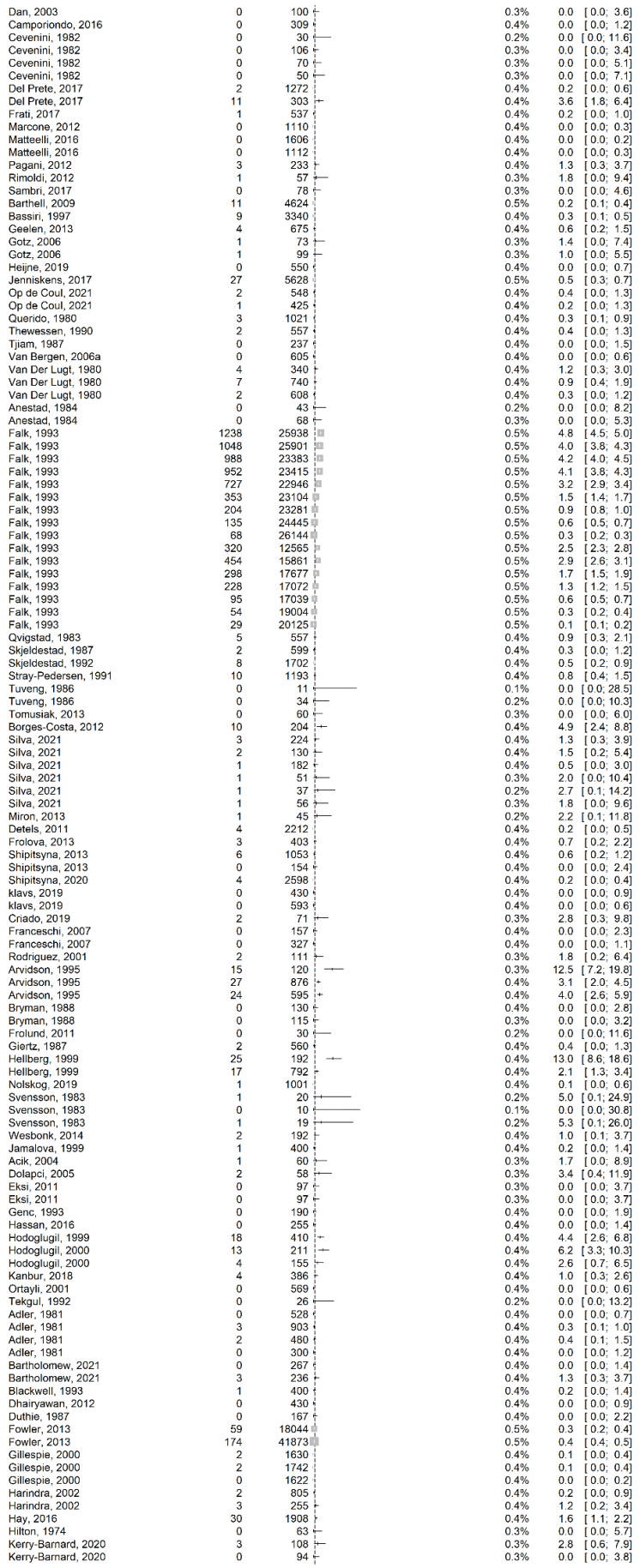
Quality assessment	*Neisseria gonorrhoeae* prevalence measures	
	Number of studies	%
Precision of prevalence measures[a]		
Low precision	341	21.7
High precision	1,232	78.3
Risk of bias quality domain[b]		
Sampling method		
Low risk of bias	50	3.2
High risk of bias	1,523	96.8
Response rate		
Low risk of bias	93	5.9
High risk of bias	92	5.9
Unclear risk of bias	1,388	88.2
Summary of the risk of bias assessment		
Low risk of bias		
In at least one quality domain	137	8.7
In both quality domains	6	0.4
High risk of bias		
In at least one quality domain	1,540	97.9
In both quality domains	75	4.8
Unclear risk of bias		
In at least one quality domain	1,388	88.2
In both quality domains	0	0.0
Prevalence studies where risk of bias assessment was possible	1,573	100.0

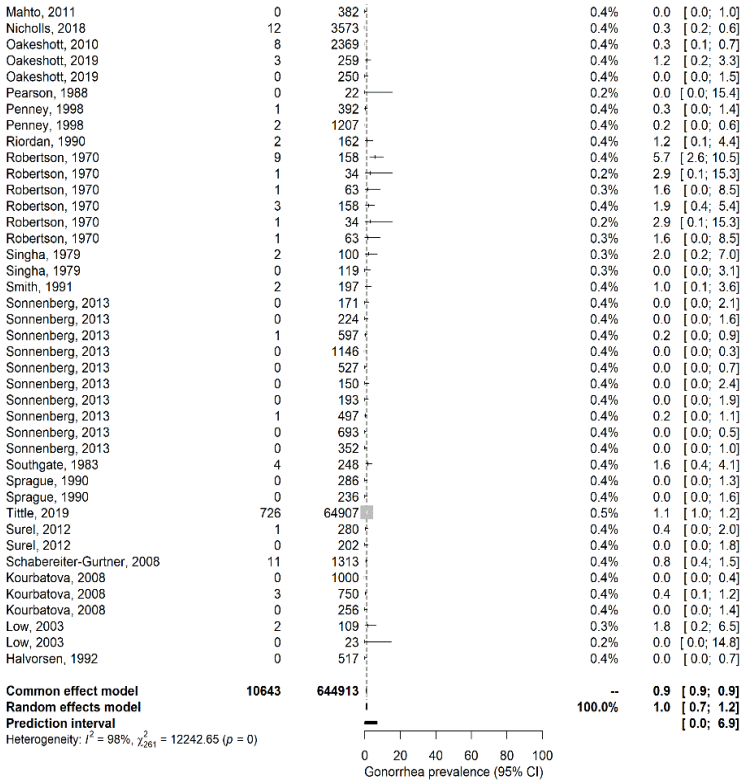
[a] Precision was assessed based on the overall sample size (not each stratum subsample size) of the study as reported in the record/publication.
[b] Risk of bias was assessed based on the overall sample size (not each stratum subsample size) of the study as reported in the record/publication.

Supplementary Figure S1. Forest plots presenting outcomes of the pooled urogenital *Neisseria gonorrhoeae* prevalence among the different populations in Europe.

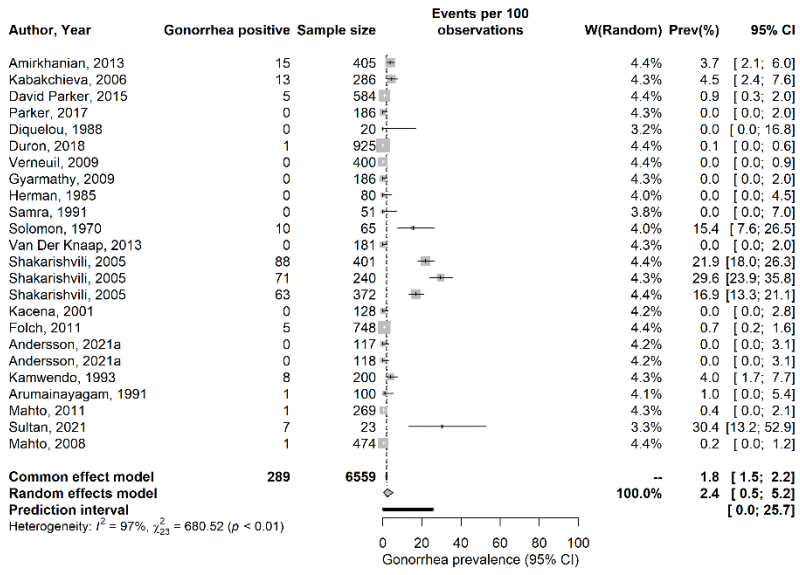
A. General populations



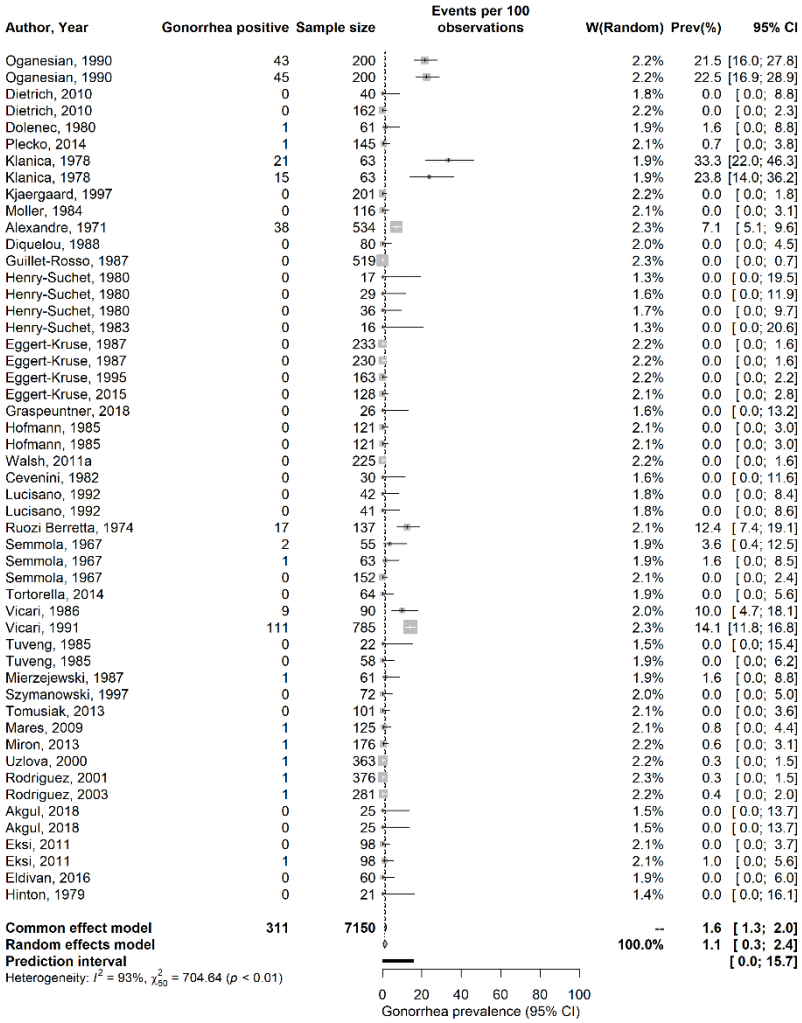

Dan, 2003 0 100 0.3% 0.0 [0.0; 3.6]
Camporiondo, 2016 0 309 0.4% 0.0 [0.0; 1.2]
Cevenini, 1982 0 30 0.2% 0.0 [0.0; 11.6]
Cevenini, 1982 0 106 0.3% 0.0 [0.0; 3.4]
Cevenini, 1982 0 70 0.3% 0.0 [0.0; 5.1]
Cevenini, 1982 0 50 0.3% 0.0 [0.0; 7.1]
Del Prete, 2017 2 1272 0.4% 0.2 [0.0; 0.6]
Del Prete, 2017 11 303 0.4% 3.6 [1.8; 6.4]
Frati, 2017 1 537 0.4% 0.2 [0.0; 1.0]
Marcone, 2012 0 1110 0.4% 0.0 [0.0; 0.3]
Matteelli, 2016 0 1606 0.4% 0.0 [0.0; 0.2]
Matteelli, 2016 0 1112 0.4% 0.0 [0.0; 0.3]
Pagani, 2012 3 233 0.4% 1.3 [0.3; 3.7]
Rimoldi, 2012 1 57 0.3% 1.8 [0.0; 9.4]
Sambri, 2017 0 78 0.3% 0.0 [0.0; 4.6]
Barthell, 2009 11 4624 0.5% 0.2 [0.1; 0.4]
Bassiri, 1997 9 3340 0.4% 0.3 [0.1; 0.5]
Geelen, 2013 4 675 0.4% 0.6 [0.2; 1.5]
Gotz, 2006 1 73 0.3% 1.4 [0.0; 7.4]
Gotz, 2006 1 99 0.3% 1.0 [0.0; 5.5]
Heijne, 2019 0 550 0.4% 0.0 [0.0; 0.7]
Jenniskens, 2017 27 5628 0.5% 0.5 [0.3; 0.7]
Op de Coul, 2021 2 548 0.4% 0.4 [0.0; 1.3]
Op de Coul, 2021 1 425 0.4% 0.2 [0.0; 1.3]
Querido, 1980 3 1021 0.4% 0.3 [0.1; 0.9]
Thewessen, 1990 2 557 0.4% 0.4 [0.0; 1.3]
Tjiam, 1987 0 237 0.4% 0.0 [0.0; 1.5]
Van Bergen, 2006a 0 605 0.4% 0.0 [0.0; 0.6]
Van Der Lugt, 1980 4 340 0.4% 1.2 [0.3; 3.0]
Van Der Lugt, 1980 7 740 0.4% 0.9 [0.4; 1.9]
Van Der Lugt, 1980 2 608 0.4% 0.3 [0.0; 1.2]
Anestad, 1984 0 43 0.2% 0.0 [0.0; 8.2]
Anestad, 1984 0 68 0.3% 0.0 [0.0; 5.3]
Falk, 1993 1238 25938 0.5% 4.8 [4.5; 5.0]
Falk, 1993 1048 25901 0.5% 4.0 [3.8; 4.3]
Falk, 1993 988 23383 0.5% 4.2 [4.0; 4.5]
Falk, 1993 952 23415 0.5% 4.1 [3.8; 4.3]
Falk, 1993 727 22946 0.5% 3.2 [2.9; 3.4]
Falk, 1993 353 23104 0.5% 1.5 [1.4; 1.7]
Falk, 1993 204 23281 0.5% 0.9 [0.8; 1.0]
Falk, 1993 135 24445 0.5% 0.6 [0.5; 0.7]
Falk, 1993 68 26144 0.5% 0.3 [0.2; 0.3]
Falk, 1993 320 12565 0.5% 2.5 [2.3; 2.8]
Falk, 1993 454 15861 0.5% 2.9 [2.6; 3.1]
Falk, 1993 298 17677 0.5% 1.7 [1.5; 1.9]
Falk, 1993 228 17072 0.5% 1.3 [1.2; 1.5]
Falk, 1993 95 17039 0.5% 0.6 [0.5; 0.7]
Falk, 1993 54 19004 0.5% 0.3 [0.2; 0.4]
Falk, 1993 29 20125 0.5% 0.1 [0.1; 0.2]
Qvigstad, 1983 5 557 0.4% 0.9 [0.3; 2.1]
Skjeldestad, 1987 2 599 0.4% 0.3 [0.0; 1.2]
Skjeldestad, 1992 8 1702 0.4% 0.5 [0.2; 0.9]
Stray-Pedersen, 1991 10 1193 0.4% 0.8 [0.4; 1.5]
Tuveng, 1986 0 11 0.1% 0.0 [0.0; 28.5]
Tuveng, 1986 0 34 0.2% 0.0 [0.0; 10.3]
Tomusiak, 2013 0 60 0.3% 0.0 [0.0; 6.0]
Borges-Costa, 2012 10 204 0.4% 4.9 [2.4; 8.8]
Silva, 2021 3 224 0.4% 1.3 [0.3; 3.9]
Silva, 2021 2 130 0.4% 1.5 [0.2; 5.4]
Silva, 2021 1 182 0.4% 0.5 [0.0; 3.0]
Silva, 2021 1 51 0.3% 2.0 [0.0; 10.4]
Silva, 2021 1 37 0.2% 2.7 [0.1; 14.2]
Silva, 2021 1 56 0.3% 1.8 [0.0; 9.6]
Miron, 2013 1 45 0.2% 2.2 [0.1; 11.8]
Detels, 2011 4 2212 0.4% 0.2 [0.0; 0.5]
Frolova, 2013 3 403 0.4% 0.7 [0.2; 2.2]
Shipitsyna, 2013 6 1053 0.4% 0.6 [0.2; 1.2]
Shipitsyna, 2013 0 154 0.4% 0.0 [0.0; 2.4]
Shipitsyna, 2020 4 2598 0.4% 0.2 [0.0; 0.4]
klavs, 2019 0 430 0.4% 0.0 [0.0; 0.9]
klavs, 2019 0 593 0.4% 0.0 [0.0; 0.6]
Criado, 2019 2 71 0.3% 2.8 [0.3; 9.8]
Franceschi, 2007 0 157 0.4% 0.0 [0.0; 2.3]
Franceschi, 2007 0 327 0.4% 0.0 [0.0; 1.1]
Rodriguez, 2001 2 111 0.3% 1.8 [0.2; 6.4]
Arvidson, 1995 15 120 0.3% 12.5 [7.2; 19.8]
Arvidson, 1995 27 876 0.4% 3.1 [2.0; 4.5]
Arvidson, 1995 24 595 0.4% 4.0 [2.6; 5.9]
Bryman, 1988 0 130 0.4% 0.0 [0.0; 2.8]
Bryman, 1988 0 115 0.3% 0.0 [0.0; 3.2]
Frolund, 2011 0 30 0.2% 0.0 [0.0; 11.6]
Giertz, 1987 2 560 0.4% 0.4 [0.0; 1.3]
Hellberg, 1999 25 192 0.4% 13.0 [8.6; 18.6]
Hellberg, 1999 17 792 0.4% 2.1 [1.3; 3.4]
Nolskog, 2019 1 1001 0.4% 0.1 [0.0; 0.6]
Svensson, 1983 1 20 0.2% 5.0 [0.1; 24.9]
Svensson, 1983 0 10 0.1% 0.0 [0.0; 30.8]
Svensson, 1983 1 19 0.2% 5.3 [0.1; 26.0]
Wesbonk, 2014 2 192 0.4% 1.0 [0.1; 3.7]
Jamalova, 1999 1 400 0.4% 0.2 [0.0; 1.4]
Acik, 2004 1 60 0.3% 1.7 [0.0; 8.9]
Dolapci, 2005 2 58 0.3% 3.4 [0.4; 11.9]
Eksi, 2011 0 97 0.3% 0.0 [0.0; 3.7]
Eksi, 2011 0 97 0.3% 0.0 [0.0; 3.7]
Genc, 1993 0 190 0.4% 0.0 [0.0; 1.9]
Hassan, 2016 0 255 0.4% 0.0 [0.0; 1.4]
Hodoglugil, 1999 18 410 0.4% 4.4 [2.6; 6.8]
Hodoglugil, 2000 13 211 0.4% 6.2 [3.3; 10.3]
Hodoglugil, 2000 4 155 0.4% 2.6 [0.7; 6.5]
Kanbur, 2018 4 386 0.4% 1.0 [0.3; 2.6]
Ortayli, 2001 0 569 0.4% 0.0 [0.0; 0.6]
Tekgul, 1992 0 26 0.2% 0.0 [0.0; 13.2]
Adler, 1981 0 528 0.4% 0.0 [0.0; 0.7]
Adler, 1981 3 903 0.4% 0.3 [0.1; 1.0]
Adler, 1981 2 480 0.4% 0.4 [0.1; 1.5]
Adler, 1981 0 300 0.4% 0.0 [0.0; 1.2]
Bartholomew, 2021 0 267 0.4% 0.0 [0.0; 1.4]
Bartholomew, 2021 3 236 0.4% 1.3 [0.3; 3.7]
Blackwell, 1993 1 400 0.4% 0.2 [0.0; 1.4]
Dhairyawan, 2012 0 430 0.4% 0.0 [0.0; 0.9]
Duthie, 1987 0 167 0.4% 0.0 [0.0; 2.2]
Fowler, 2013 59 18044 0.5% 0.3 [0.2; 0.4]
Fowler, 2013 174 41873 0.5% 0.4 [0.4; 0.5]
Gillespie, 2000 2 1630 0.4% 0.1 [0.0; 0.4]
Gillespie, 2000 2 1742 0.4% 0.1 [0.0; 0.4]
Gillespie, 2000 0 1622 0.4% 0.0 [0.0; 0.2]
Harindra, 2002 2 805 0.4% 0.2 [0.0; 0.9]
Harindra, 2002 3 255 0.4% 1.2 [0.2; 3.4]
Hay, 2016 30 1908 0.4% 1.6 [1.1; 2.2]
Hilton, 1974 0 63 0.3% 0.0 [0.0; 5.7]
Kerry-Barnard, 2020 3 108 0.3% 2.8 [0.6; 7.9]
Kerry-Barnard, 2020 0 94 0.3% 0.0 [0.0; 3.8]



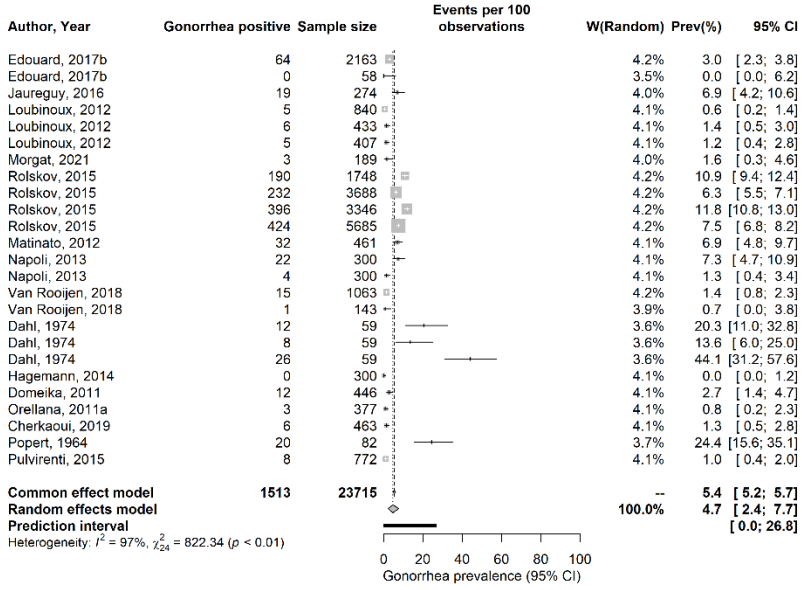
B. Intermediate-risk populations



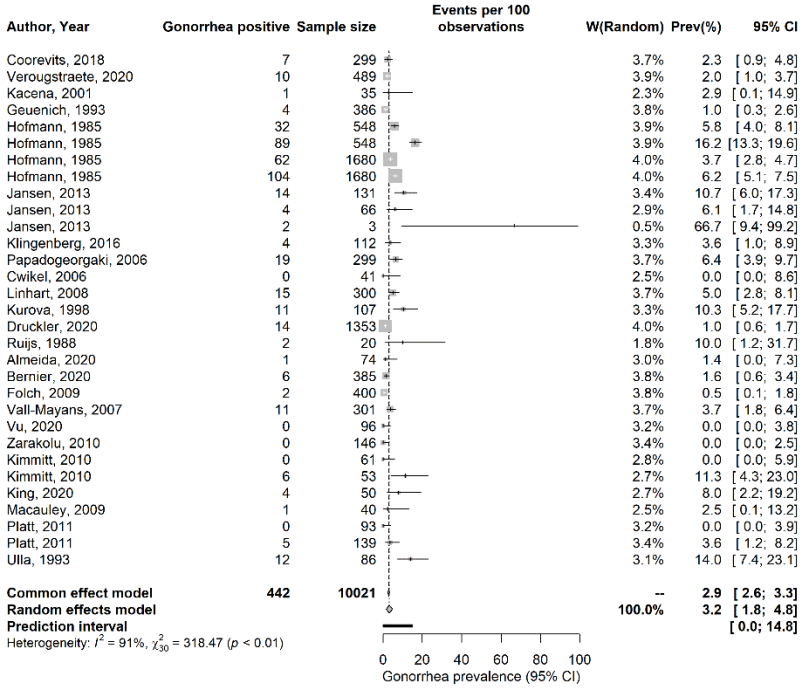
C. Infertility clinic attendees



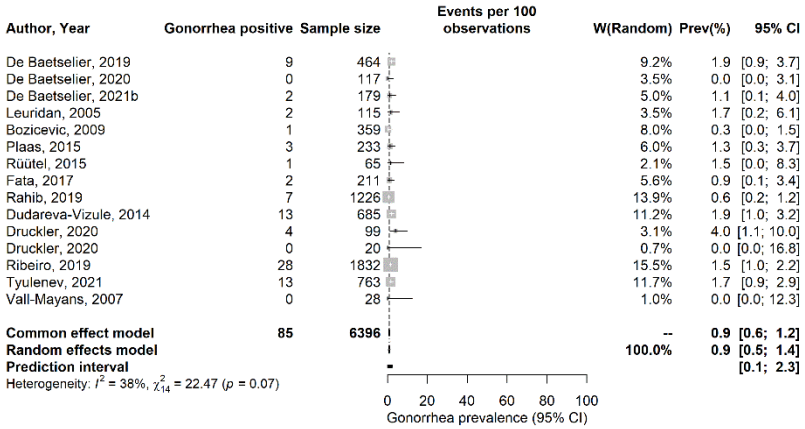
D. Other populations



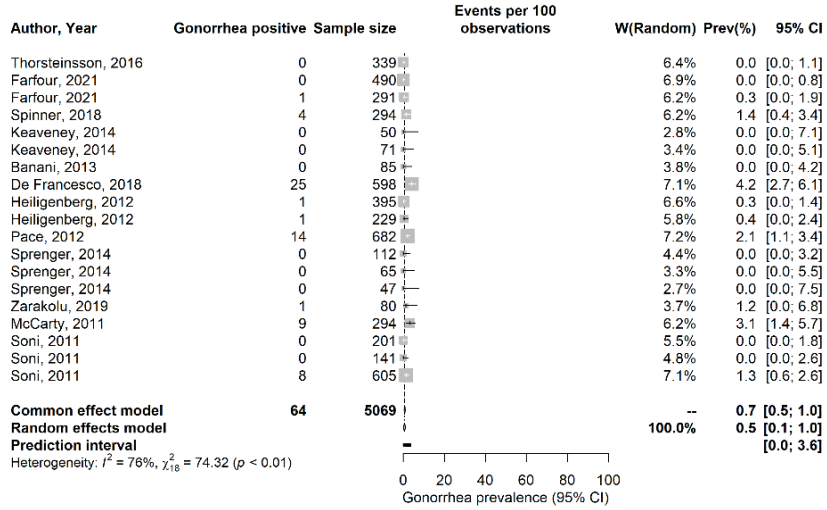
E. Female sex workers



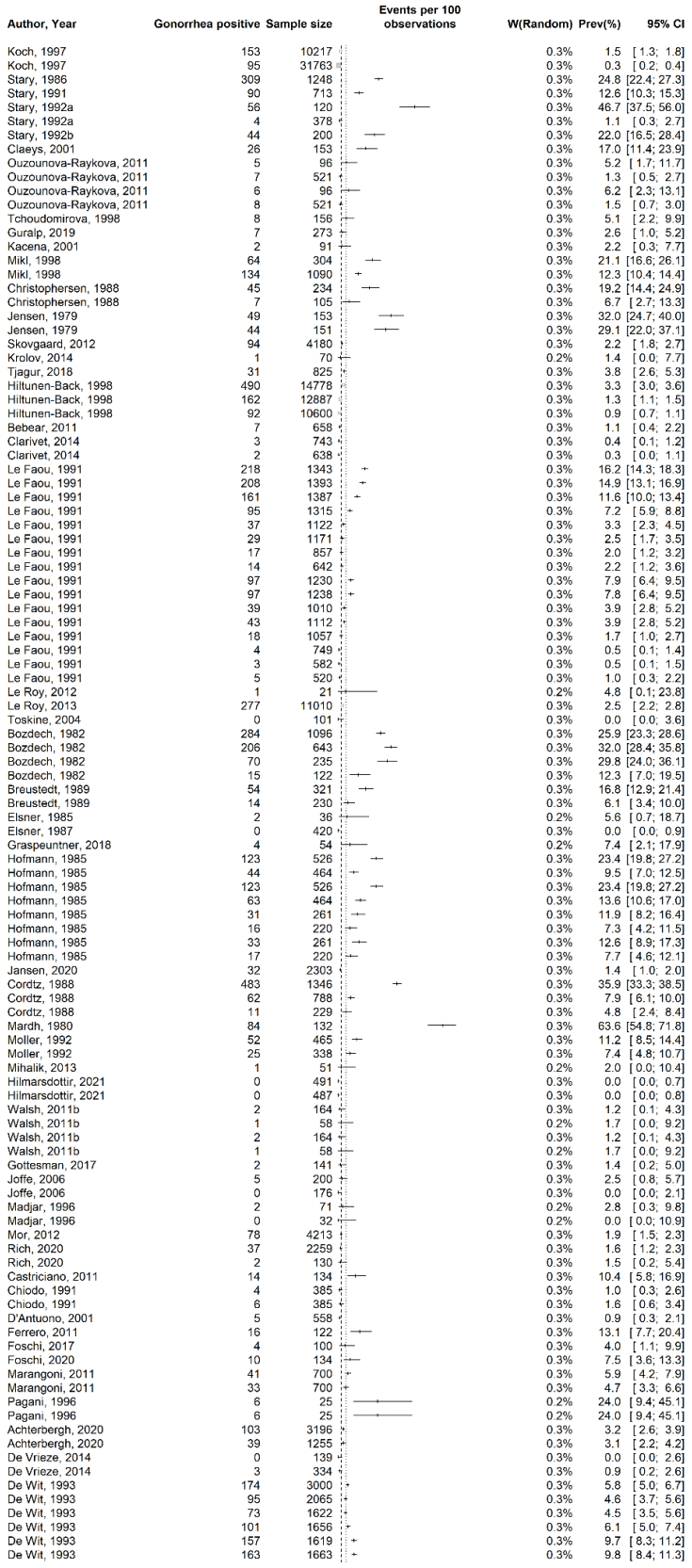
F. Male sex workers and men who have sex with men

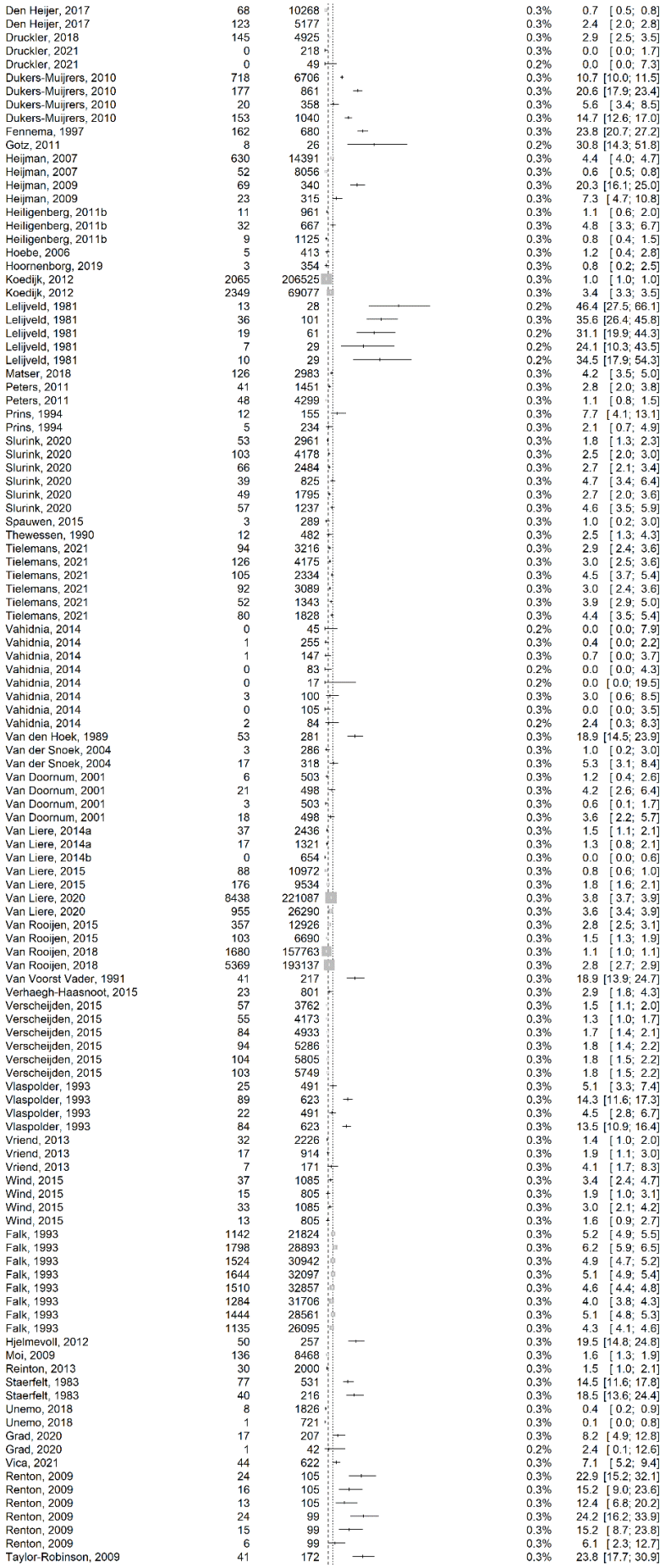


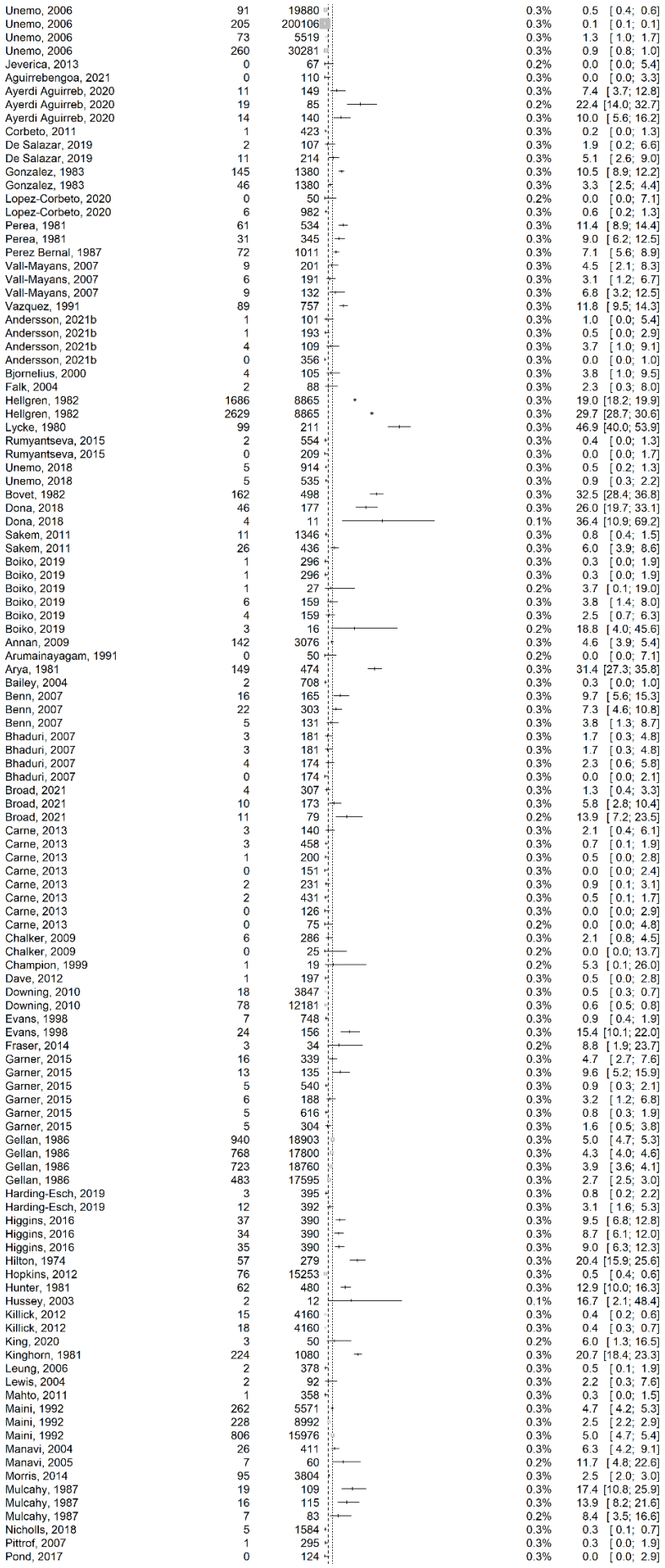
G. HIV-positive individuals and individuals in HIV-discordant couples

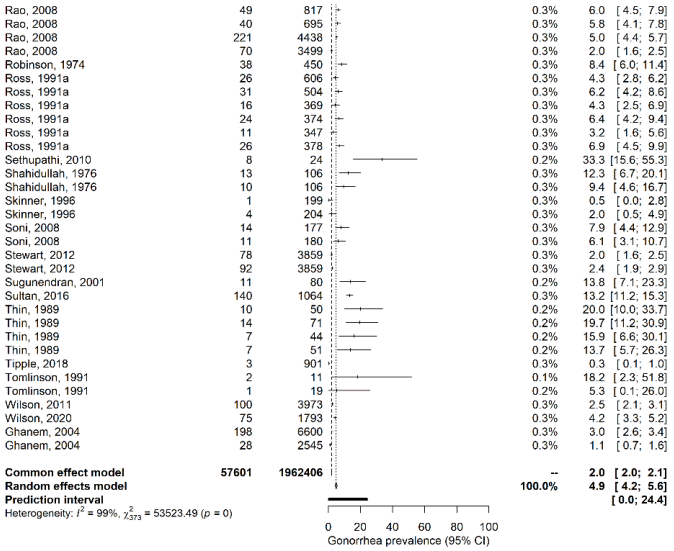


H. Sexually transmitted infection clinic attendees

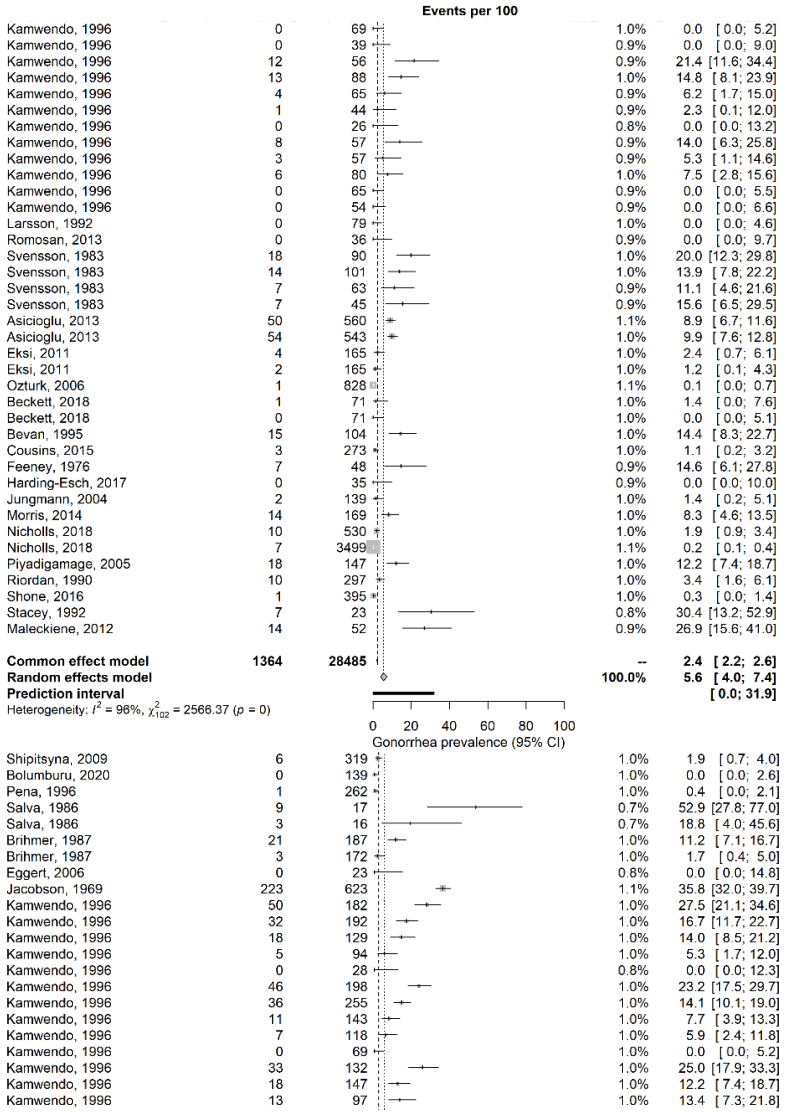



Den Heijer, 2017 68 10268 0.3% 0.7 [0.5; 0.8]
Den Heijer, 2017 123 5177 0.3% 2.4 [2.0; 2.8]
Druckler, 2018 145 4925 0.3% 2.9 [2.5; 3.5]
Druckler, 2021 0 218 0.3% 0.0 [0.0; 1.7]
Druckler, 2021 0 49 0.2% 0.0 [0.0; 7.3]
Dukers-Muijrers, 2010 718 6706 0.3% 10.7 [10.0; 11.5]
Dukers-Muijrers, 2010 177 861 0.3% 20.6 [17.9; 23.4]
Dukers-Muijrers, 2010 20 358 0.3% 5.6 [3.4; 8.5]
Dukers-Muijrers, 2010 153 1040 0.3% 14.7 [12.6; 17.0]
Fennema, 1997 162 680 0.3% 23.8 [20.7; 27.2]
Gotz, 2011 8 26 0.2% 30.8 [14.3; 51.8]
Heijman, 2007 630 14391 0.3% 4.4 [4.0; 4.7]
Heijman, 2007 52 8056 0.3% 0.6 [0.5; 0.8]
Heijman, 2009 69 340 0.3% 20.3 [16.1; 25.0]
Heijman, 2009 23 315 0.3% 7.3 [4.7; 10.8]
Heiligenberg, 2011b 11 961 0.3% 1.1 [0.6; 2.0]
Heiligenberg, 2011b 32 667 0.3% 4.8 [3.3; 6.7]
Heiligenberg, 2011b 9 1125 0.3% 0.8 [0.4; 1.5]
Hoebe, 2006 5 413 0.3% 1.2 [0.4; 2.8]
Hoornenborg, 2019 3 354 0.3% 0.8 [0.2; 2.5]
Koedijk, 2012 2065 206525 0.3% 1.0 [1.0; 1.0]
Koedijk, 2012 2349 69077 0.3% 3.4 [3.3; 3.5]
Lelijveld, 1981 13 28 0.2% 46.4 [27.5; 66.1]
Lelijveld, 1981 36 101 0.3% 35.6 [26.4; 45.8]
Lelijveld, 1981 19 61 0.2% 31.1 [19.9; 44.3]
Lelijveld, 1981 7 29 0.2% 24.1 [10.3; 43.5]
Lelijveld, 1981 10 29 0.2% 34.5 [17.9; 54.3]
Matser, 2018 126 2983 0.3% 4.2 [3.5; 5.0]
Peters, 2011 41 1451 0.3% 2.8 [2.0; 3.8]
Peters, 2011 48 4299 0.3% 1.1 [0.8; 1.5]
Prins, 1994 12 155 0.3% 7.7 [4.1; 13.1]
Prins, 1994 5 234 0.3% 2.1 [0.7; 4.9]
Slurink, 2020 53 2961 0.3% 1.8 [1.3; 2.3]
Slurink, 2020 103 4178 0.3% 2.5 [2.0; 3.0]
Slurink, 2020 66 2484 0.3% 2.7 [2.1; 3.4]
Slurink, 2020 39 825 0.3% 4.7 [3.4; 6.4]
Slurink, 2020 49 1795 0.3% 2.7 [2.0; 3.6]
Slurink, 2020 57 1237 0.3% 4.6 [3.5; 5.9]
Spauwen, 2015 3 289 0.3% 1.0 [0.2; 3.0]
Thewessen, 1990 12 482 0.3% 2.5 [1.3; 4.3]
Tielemans, 2021 94 3216 0.3% 2.9 [2.4; 3.6]
Tielemans, 2021 126 4175 0.3% 3.0 [2.5; 3.6]
Tielemans, 2021 105 2334 0.3% 4.5 [3.7; 5.4]
Tielemans, 2021 92 3089 0.3% 3.0 [2.4; 3.6]
Tielemans, 2021 52 1343 0.3% 3.9 [2.9; 5.0]
Tielemans, 2021 80 1828 0.3% 4.4 [3.5; 5.4]
Vahidnia, 2014 0 45 0.2% 0.0 [0.0; 7.9]
Vahidnia, 2014 1 255 0.3% 0.4 [0.0; 2.2]
Vahidnia, 2014 1 147 0.3% 0.7 [0.0; 3.7]
Vahidnia, 2014 0 83 0.2% 0.0 [0.0; 4.3]
Vahidnia, 2014 0 17 0.2% 0.0 [0.0; 19.5]
Vahidnia, 2014 3 100 0.3% 3.0 [0.6; 8.5]
Vahidnia, 2014 0 105 0.3% 0.0 [0.0; 3.5]
Vahidnia, 2014 2 84 0.2% 2.4 [0.3; 8.3]
Van den Hoek, 1989 53 281 0.3% 18.9 [14.5; 23.9]
Van der Snoek, 2004 3 286 0.3% 1.0 [0.2; 3.0]
Van der Snoek, 2004 17 318 0.3% 5.3 [3.1; 8.4]
Van Doornum, 2001 6 503 0.3% 1.2 [0.4; 2.6]
Van Doornum, 2001 21 498 0.3% 4.2 [2.6; 6.4]
Van Doornum, 2001 3 503 0.3% 0.6 [0.1; 1.7]
Van Doornum, 2001 18 498 0.3% 3.6 [2.2; 5.7]
Van Liere, 2014a 37 2436 0.3% 1.5 [1.1; 2.1]
Van Liere, 2014a 17 1321 0.3% 1.3 [0.8; 2.1]
Van Liere, 2014b 0 654 0.3% 0.0 [0.0; 0.6]
Van Liere, 2015 88 10972 0.3% 0.8 [0.6; 1.0]
Van Liere, 2015 176 9534 0.3% 1.8 [1.6; 2.1]
Van Liere, 2020 8438 221087 0.3% 3.8 [3.7; 3.9]
Van Liere, 2020 955 26290 0.3% 3.6 [3.4; 3.9]
Van Rooijen, 2015 357 12926 0.3% 2.8 [2.5; 3.1]
Van Rooijen, 2015 103 6690 0.3% 1.5 [1.3; 1.9]
Van Rooijen, 2018 1680 157763 0.3% 1.1 [1.0; 1.1]
Van Rooijen, 2018 5369 193137 0.3% 2.8 [2.7; 2.9]
Van Voorst Vader, 1991 41 217 0.3% 18.9 [13.9; 24.7]
Verhaegh-Haasnoot, 2015 23 801 0.3% 2.9 [1.8; 4.3]
Verscheijden, 2015 57 3762 0.3% 1.5 [1.1; 2.0]
Verscheijden, 2015 55 4173 0.3% 1.3 [1.0; 1.7]
Verscheijden, 2015 84 4933 0.3% 1.7 [1.4; 2.1]
Verscheijden, 2015 94 5286 0.3% 1.8 [1.4; 2.2]
Verscheijden, 2015 104 5805 0.3% 1.8 [1.5; 2.2]
Verscheijden, 2015 103 5749 0.3% 1.8 [1.5; 2.2]
Vlaspolder, 1993 25 491 0.3% 5.1 [3.3; 7.4]
Vlaspolder, 1993 89 623 0.3% 14.3 [11.6; 17.3]
Vlaspolder, 1993 22 491 0.3% 4.5 [2.8; 6.7]
Vlaspolder, 1993 84 623 0.3% 13.5 [10.9; 16.4]
Vriend, 2013 32 2226 0.3% 1.4 [1.0; 2.0]
Vriend, 2013 17 914 0.3% 1.9 [1.1; 3.0]
Vriend, 2013 7 171 0.3% 4.1 [1.7; 8.3]
Wind, 2015 37 1085 0.3% 3.4 [2.4; 4.7]
Wind, 2015 15 805 0.3% 1.9 [1.0; 3.1]
Wind, 2015 33 1085 0.3% 3.0 [2.1; 4.2]
Wind, 2015 13 805 0.3% 1.6 [0.9; 2.7]
Falk, 1993 1142 21824 0.3% 5.2 [4.9; 5.5]
Falk, 1993 1798 28893 0.3% 6.2 [5.9; 6.5]
Falk, 1993 1524 30942 0.3% 4.9 [4.7; 5.2]
Falk, 1993 1644 32097 0.3% 5.1 [4.9; 5.4]
Falk, 1993 1510 32857 0.3% 4.6 [4.4; 4.8]
Falk, 1993 1284 31706 0.3% 4.0 [3.8; 4.3]
Falk, 1993 1444 28561 0.3% 5.1 [4.8; 5.3]
Falk, 1993 1135 26095 0.3% 4.3 [4.1; 4.6]
Hjelmevoll, 2012 50 257 0.3% 19.5 [14.8; 24.8]
Moi, 2009 136 8468 0.3% 1.6 [1.3; 1.9]
Reinton, 2013 30 2000 0.3% 1.5 [1.0; 2.1]
Staerfelt, 1983 77 531 0.3% 14.5 [11.6; 17.8]
Staerfelt, 1983 40 216 0.3% 18.5 [13.6; 24.4]
Unemo, 2018 8 1826 0.3% 0.4 [0.2; 0.9]
Unemo, 2018 1 721 0.3% 0.1 [0.0; 0.8]
Grad, 2020 17 207 0.3% 8.2 [4.9; 12.8]
Grad, 2020 1 42 0.2% 2.4 [0.1; 12.6]
Vica, 2021 44 622 0.3% 7.1 [5.2; 9.4]
Renton, 2009 24 105 0.3% 22.9 [15.2; 32.1]
Renton, 2009 16 105 0.3% 15.2 [9.0; 23.6]
Renton, 2009 13 105 0.3% 12.4 [6.8; 20.2]
Renton, 2009 24 99 0.3% 24.2 [16.2; 33.9]
Renton, 2009 15 99 0.3% 15.2 [8.7; 23.8]
Renton, 2009 6 99 0.3% 6.1 [2.3; 12.7]
Taylor-Robinson, 2009 41 172 0.3% 23.8 [17.7; 30.9]

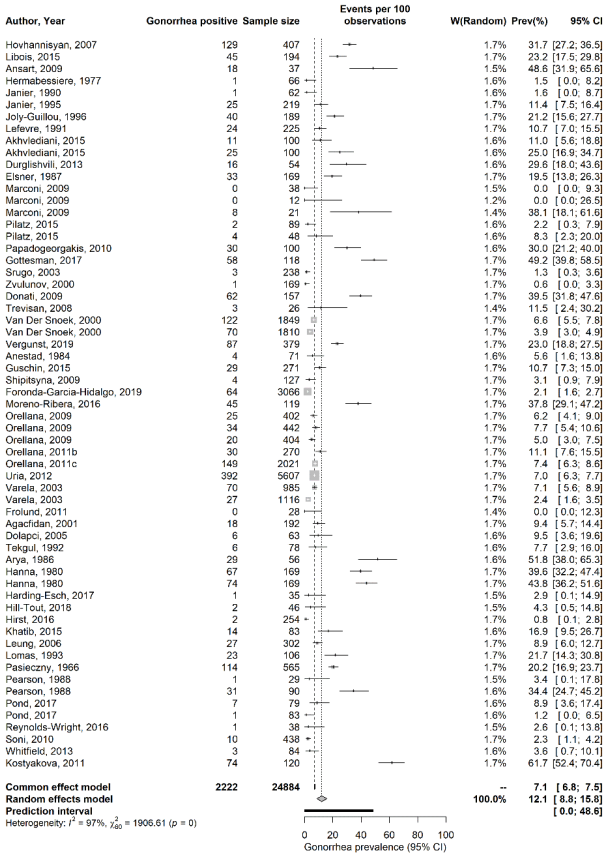

Unemo, 2006 91 19880 0.3% 0.5 [0.4; 0.6]
Unemo, 2006 205 200106 0.3% 0.1 [0.1; 0.1]
Unemo, 2006 73 5519 0.3% 1.3 [1.0; 1.7]
Unemo, 2006 260 30281 0.3% 0.9 [0.8; 1.0]
Jeverica, 2013 0 67 0.2% 0.0 [0.0; 5.4]
Aguirrebengoa, 2021 0 110 0.3% 0.0 [0.0; 3.3]
Ayerdi Aguirreb, 2020 11 149 0.3% 7.4 [3.7; 12.8]
Ayerdi Aguirreb, 2020 19 85 0.2% 22.4 [14.0; 32.7]
Ayerdi Aguirreb, 2020 14 140 0.3% 10.0 [5.6; 16.2]
Corbeto, 2011 1 423 0.3% 0.2 [0.0; 1.3]
De Salazar, 2019 2 107 0.3% 1.9 [0.2; 6.6]
De Salazar, 2019 11 214 0.3% 5.1 [2.6; 9.0]
Gonzalez, 1983 145 1380 0.3% 10.5 [8.9; 12.2]
Gonzalez, 1983 46 1380 0.3% 3.3 [2.5; 4.4]
Lopez-Corbeto, 2020 0 50 0.2% 0.0 [0.0; 7.1]
Lopez-Corbeto, 2020 6 982 0.3% 0.6 [0.2; 1.3]
Perea, 1981 61 534 0.3% 11.4 [8.9; 14.4]
Perea, 1981 31 345 0.3% 9.0 [6.2; 12.5]
Perez Bernal, 1987 72 1011 0.3% 7.1 [5.6; 8.9]
Vall-Mayans, 2007 9 201 0.3% 4.5 [2.1; 8.3]
Vall-Mayans, 2007 6 191 0.3% 3.1 [1.2; 6.7]
Vall-Mayans, 2007 9 132 0.3% 6.8 [3.2; 12.5]
Vazquez, 1991 89 757 0.3% 11.8 [9.5; 14.3]
Andersson, 2021b 1 101 0.3% 1.0 [0.0; 5.4]
Andersson, 2021b 1 193 0.3% 0.5 [0.0; 2.9]
Andersson, 2021b 4 109 0.3% 3.7 [1.0; 9.1]
Andersson, 2021b 0 356 0.3% 0.0 [0.0; 1.0]
Bjornelius, 2000 4 105 0.3% 3.8 [1.0; 9.5]
Falk, 2004 2 88 0.3% 2.3 [0.3; 8.0]
Hellgren, 1982 1686 8865 0.3% 19.0 [18.2; 19.9]
Hellgren, 1982 2629 8865 0.3% 29.7 [28.7; 30.6]
Lycke, 1980 99 211 0.3% 46.9 [40.0; 53.9]
Rumyantseva, 2015 2 554 0.3% 0.4 [0.0; 1.3]
Rumyantseva, 2015 0 209 0.3% 0.0 [0.0; 1.7]
Unemo, 2018 5 914 0.3% 0.5 [0.2; 1.3]
Unemo, 2018 5 535 0.3% 0.9 [0.3; 2.2]
Bovet, 1982 162 498 0.3% 32.5 [28.4; 36.8]
Dona, 2018 46 177 0.3% 26.0 [19.7; 33.1]
Dona, 2018 4 11 0.1% 36.4 [10.9; 69.2]
Sakem, 2011 11 1346 0.3% 0.8 [0.4; 1.5]
Sakem, 2011 26 436 0.3% 6.0 [3.9; 8.6]
Boiko, 2019 1 296 0.3% 0.3 [0.0; 1.9]
Boiko, 2019 1 296 0.3% 0.3 [0.0; 1.9]
Boiko, 2019 1 27 0.2% 3.7 [0.1; 19.0]
Boiko, 2019 6 159 0.3% 3.8 [1.4; 8.0]
Boiko, 2019 4 159 0.3% 2.5 [0.7; 6.3]
Boiko, 2019 3 16 0.2% 18.8 [4.0; 45.6]
Annan, 2009 142 3076 0.3% 4.6 [3.9; 5.4]
Arumainayagam, 1991 0 50 0.2% 0.0 [0.0; 7.1]
Arya, 1981 149 474 0.3% 31.4 [27.3; 35.8]
Bailey, 2004 2 708 0.3% 0.3 [0.0; 1.0]
Benn, 2007 16 165 0.3% 9.7 [5.6; 15.3]
Benn, 2007 22 303 0.3% 7.3 [4.6; 10.8]
Benn, 2007 5 131 0.3% 3.8 [1.3; 8.7]
Bhaduri, 2007 3 181 0.3% 1.7 [0.3; 4.8]
Bhaduri, 2007 3 181 0.3% 1.7 [0.3; 4.8]
Bhaduri, 2007 4 174 0.3% 2.3 [0.6; 5.8]
Bhaduri, 2007 0 174 0.3% 0.0 [0.0; 2.1]
Broad, 2021 4 307 0.3% 1.3 [0.4; 3.3]
Broad, 2021 10 173 0.3% 5.8 [2.8; 10.4]
Broad, 2021 11 79 0.2% 13.9 [7.2; 23.5]
Carne, 2013 3 140 0.3% 2.1 [0.4; 6.1]
Carne, 2013 3 458 0.3% 0.7 [0.1; 1.9]
Carne, 2013 1 200 0.3% 0.5 [0.0; 2.8]
Carne, 2013 0 151 0.3% 0.0 [0.0; 2.4]
Carne, 2013 2 231 0.3% 0.9 [0.1; 3.1]
Carne, 2013 2 431 0.3% 0.5 [0.1; 1.7]
Carne, 2013 0 126 0.3% 0.0 [0.0; 2.9]
Carne, 2013 0 75 0.2% 0.0 [0.0; 4.8]
Chalker, 2009 6 286 0.3% 2.1 [0.8; 4.5]
Chalker, 2009 0 25 0.2% 0.0 [0.0; 13.7]
Champion, 1999 1 19 0.2% 5.3 [0.1; 26.0]
Dave, 2012 1 197 0.3% 0.5 [0.0; 2.8]
Downing, 2010 18 3847 0.3% 0.5 [0.3; 0.7]
Downing, 2010 78 12181 0.3% 0.6 [0.5; 0.8]
Evans, 1998 7 748 0.3% 0.9 [0.4; 1.9]
Evans, 1998 24 156 0.3% 15.4 [10.1; 22.0]
Fraser, 2014 3 34 0.2% 8.8 [1.9; 23.7]
Garner, 2015 16 339 0.3% 4.7 [2.7; 7.6]
Garner, 2015 13 135 0.3% 9.6 [5.2; 15.9]
Garner, 2015 5 540 0.3% 0.9 [0.3; 2.1]
Garner, 2015 6 188 0.3% 3.2 [1.2; 6.8]
Garner, 2015 5 616 0.3% 0.8 [0.3; 1.9]
Garner, 2015 5 304 0.3% 1.6 [0.5; 3.8]
Gellan, 1986 940 18903 0.3% 5.0 [4.7; 5.3]
Gellan, 1986 768 17800 0.3% 4.3 [4.0; 4.6]
Gellan, 1986 723 18760 0.3% 3.9 [3.6; 4.1]
Gellan, 1986 483 17595 0.3% 2.7 [2.5; 3.0]
Harding-Esch, 2019 3 395 0.3% 0.8 [0.2; 2.2]
Harding-Esch, 2019 12 392 0.3% 3.1 [1.6; 5.3]
Higgins, 2016 37 390 0.3% 9.5 [6.8; 12.8]
Higgins, 2016 34 390 0.3% 8.7 [6.1; 12.0]
Higgins, 2016 35 390 0.3% 9.0 [6.3; 12.3]
Hilton, 1974 57 279 0.3% 20.4 [15.9; 25.6]
Hopkins, 2012 76 15253 0.3% 0.5 [0.4; 0.6]
Hunter, 1981 62 480 0.3% 12.9 [10.0; 16.3]
Hussey, 2003 2 12 0.1% 16.7 [2.1; 48.4]
Killick, 2012 15 4160 0.3% 0.4 [0.2; 0.6]
Killick, 2012 18 4160 0.3% 0.4 [0.3; 0.7]
King, 2020 3 50 0.2% 6.0 [1.3; 16.5]
Kinghorn, 1981 224 1080 0.3% 20.7 [18.4; 23.3]
Leung, 2006 2 378 0.3% 0.5 [0.1; 1.9]
Lewis, 2004 2 92 0.3% 2.2 [0.3; 7.6]
Mahto, 2011 1 358 0.3% 0.3 [0.0; 1.5]
Maini, 1992 262 5571 0.3% 4.7 [4.2; 5.3]
Maini, 1992 228 8992 0.3% 2.5 [2.2; 2.9]
Maini, 1992 806 15976 0.3% 5.0 [4.7; 5.4]
Manavi, 2004 26 411 0.3% 6.3 [4.2; 9.1]
Manavi, 2005 7 60 0.2% 11.7 [4.8; 22.6]
Morris, 2014 95 3804 0.3% 2.5 [2.0; 3.0]
Mulcahy, 1987 19 109 0.3% 17.4 [10.8; 25.9]
Mulcahy, 1987 16 115 0.3% 13.9 [8.2; 21.6]
Mulcahy, 1987 7 83 0.2% 8.4 [3.5; 16.6]
Nicholls, 2018 5 1584 0.3% 0.3 [0.1; 0.7]
Pittrof, 2007 1 295 0.3% 0.3 [0.0; 1.9]
Pond, 2017 0 124 0.3% 0.0 [0.0; 2.9]



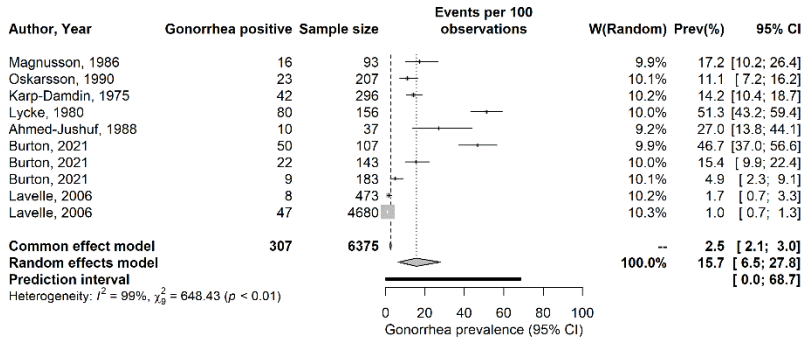
I. Symptomatic women



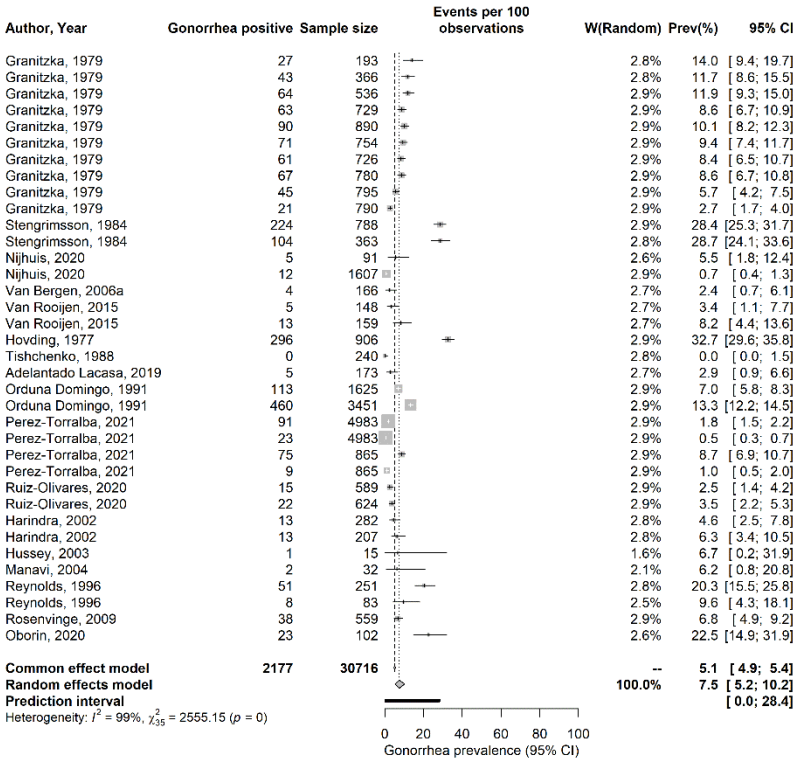
J. Symptomatic men



K. Sexual contact of persons infected with *Neisseria gonorrhoeae*/*Chlamydia trachomatis*



L. Patients with confirmed/suspected sexually transmitted infections and related infections



Supplementary Table S5. Univariable and multivariable meta-regression analyses for *Neisseria gonorrhoeae* prevalence in urogenital specimens in Europe using the year of publication instead of the year of data collection as the time variable.

Urogenital specimens			Outcome measures	Sample size	Univariable analysis				Multivariable analyses			
									Model 3[a]		Model 4[b]	
			Total n	Total N	*RR* (95% CI)	p-value	LT test p-value	Adjusted R^2	*ARR* (95% CI)	p-value	*ARR* (95% CI)	p-value
Population characteristics	**Population type**	General populations	262	64,4913	1.00	-	<0.001	18.84	1.00	-	1.00	-
		Intermediate-risk populations	24	6,559	2.54 (1.28-5.04)	0.008			3.05 (1.61-5.76)	0.001	2.49 (1.33-4.66)	0.004
		FSWs	31	10,021	3.28 (1.96-5.47)	<0.001			4.10 (2.56-6.58)	<0.001	3.80 (2.39-6.04)	<0.001
		MSWs, MSM, and transgender people	16	6,436	0.95 (0.45-2.01)	0.887			1.29 (0.63-2.61)	0.483	1.35 (0.67-2.71)	0.401
		Infertility clinic attendees	51	7,150	2.58 (1.38-4.80)	0.003			1.84 (1.02-3.32)	0.042	1.49 (0.83-2.68)	0.178
		Symptomatic women	103	28,485	4.11 (2.97-5.69)	<0.001			3.25 (2.38-4.45)	<0.001	3.33 (2.45-4.53)	<0.001
		Symptomatic men	61	24,884	7.19 (4.99-10.30)	<0.001			5.50 (3.72-8.12)	<0.001	5.27 (3.60-7.73)	<0.001
		STI clinic attendees	374	1,962,406	2.91 (2.33-3.65)	<0.001			3.13 (2.50-3.91)	<0.001	3.03 (2.43-3.77)	<0.001
		HIV positive individuals and individuals in HIV discordant couples	19	5,069	0.85 (0.35-2.04)	0.714			1.03 (0.45-2.33)	0.949	0.94 (0.42-2.12)	0.888
		Sexual contacts of persons infected with NG/CT	10	6,375	7.83 (3.67-16.60)	<0.001			8.20 (4.14-16.20)	<0.001	7.15 (3.64-14.00)	<0.001
		Patients with confirmed or suspected STIs and related infections	36	30,716	4.53 (2.93-7.01)	<0.001			4.70 (3.14-7.03)	<0.001	4.68 (3.15-6.95)	<0.001
		Other populations[c]	25	23,715	2.83 (1.67-4.81)	<0.001			4.10 (2.53-6.65)	<0.001	3.67 (2.29-5.90)	<0.001
	Age group	<20 years	50	11,635	1.00	-	0.007	1.53	1.00	-	1.00	-
		20-29 years	34	16,002	0.74 (0.39-1.41)	0.359			0.85 (0.50-1.44)	0.539	0.90 (0.53-1.52)	0.696
		30-39 years	20	5,386	0.99 (0.43-2.26)	0.979			1.27 (0.65-2.47)	0.486	1.41 (0.73-2.73)	0.305
		≥40 years	18	4,012	0.82 (0.37-1.85)	0.639			1.67 (0.84-3.30)	0.142	2.00 (1.02-3.92)	0.045
		Mixed ages	890	2,719,694	0.53 (0.35-0.80)	0.003			0.36 (0.25-0.52)	<0.001	0.40 (0.28-0.58)	<0.001
	Sex	Women	558	1,154,985	1.00	-	<0.001	2.40	1.00	-	1.00	-
		Men	371	933,280	1.62 (1.34-1.98)	<0.001			1.41 (1.15-1.72)	0.001	1.46 (1.20-1.78)	<0.001
		Mixed sexes	83	668,464	1.21 (0.88-1.65)	0.239			1.33 (1.01-1.75)	0.042	1.26 (0.96-1.65)	0.095
	European Subregions	Eastern Europe	77	281,396	1.00	-	0.922	0.00	-	-	-	-
		Southern Europe	121	72,030	1.08 (0.70-1.67)	0.724			-	-	-	-
		Western Europe	330	1,242,348	0.96 (0.66-1.38)	0.816			-	-	-	-
		Northern Europe	424	1,136,092	1.04 (0.73-1.50)	0.815			-	-	-	-
		Israel, Turkey, and mixed regions	60	24,863	1.06 (0.62-1.81)	0.838			-	-	-	-
	Country's Income	LMIC	7	1,353	1.00	-	0.021	1.01	1.00	-	1.00	-
		UMIC	76	279,505	2.16 (0.68-6.89)	0.193			2.30 (0.84-6.30)	0.104	1.53 (0.57-4.09)	0.396
		HIC	927	2,467,907	1.93 (0.63-5.88)	0.246			1.53 (0.58-4.01)	0.388	1.09 (0.42-2.82)	0.862
		Mixed income	2	7,964	0.14 (0.02-1.17)	0.069			0.43 (0.07-2.55)	0.351	0.28 (0.05-1.62)	0.156
Study methodology characteristics	**Assay type**	NAAT/PCR	427	1,448,120	1.00	-	<0.001	6.31	1.00	-	1.00	-
		Culture	453	985,482	1.91 (1.57-2.32)	<0.001			1.02 (0.80-1.32)	0.849	0.87 (0.69-1.10)	0.232
		Gram Staining	32	247,107	2.52 (1.53-4.14)	<0.001			1.36 (0.87-2.14)	0.178	1.01 (0.64-1.59)	0.954
		Other/unclear	100	76,020	1.79 (1.30-2.46)	<0.001			0.98 (0.73-1.31)	0.873	0.88 (0.66-1.17)	0.381
	Sample size[d]	<200	189	14,814	1.00	-	<0.001	7.82	1.00	-	1.00	-
		≥200	823	2,741,915	0.38 (0.29-0.49)	<0.001			0.44 (0.35-0.56)	<0.001	0.44 (0.35-0.55)	<0.001

	Sampling method	Probability based	39	15,610	1.00	-	0.106	0.00	-	-	-	-
		Non-probability based	973	2,741,119	1.73 (0.89-3.34)	0.106			-	-	-	-
	Response rate	≥80%	62	44,933	1.00	-	<0.001	1.44	1.00	-	1.00	-
		<80%	68	30,509	1.05 (0.58-1.89)	0.874			0.82 (0.50-1.36)	0.450	0.76 (0.47-1.25)	0.286
		Unclear	882	2,681,287	1.99 (1.33-2.98)	0.001			1.34 (0.95-1.88)	0.092	1.30 (0.93-1.82)	0.129
Temporal trend	**Year of publication category**	<2005	455	949,433	1.00	-	<0.001	6.57	1.00	-	-	-
		2005-2014	258	874,728	0.49 (0.39-0.61)	<0.001			0.46 (0.36-0.59)	<0.001	-	-
		≥2015	299	932,568	0.54 (0.43-0.67)	<0.001			0.59 (0.45-0.78)	<0.001	-	-
	Year of publication		1,012	2,756,729	0.97 (0.97-0.98)	<0.001	<0.001	9.83	-	-	0.97 (0.96-0.98)	<0.001

[a]Adjusted R^2 in the final multivariable model 3 = 37.24%.
[b]Adjusted R^2 in the final multivariable model 4 = 39.19%.
[c]Other populations include populations with an undetermined risk of acquiring *Neisseria gonorrhoeae* infection such as patients with cervical cancer, victims of sexual assault, specimens from virology/bacteriology laboratory and requesting home-based *N. gonorrhoeae* or *Chlamydia trachomatis* testing.
[d]Sample size denotes the sample size of each study population at the baseline found in the original publication.
Abbreviations: *ARR*: Adjusted risk ratio; CI: Confidence interval; CT: *Chlamydia trachomatis*; FSWs: Female sex workers; HIC: High-income country; PCR: Polymerase chain reaction; MSM: Men who have sex with men; MSWs: Male sex workers; NAAT: Nucleic acid amplification test; NG: *Neisseria gonorrhoeae*; LMIC: Low-middle income country; LT test: Likelihood ratio test; *RR*: Risk ratio; STI: Sexually transmitted infection; UMIC: Upper-middle income country.

Supplementary Table S6. Univariable and multivariable meta-regression analyses for *Neisseria gonorrhoeae* prevalence in anorectal specimens in Europe using the year of publication instead of the year of data collection as the time variable.

Anorectal specimens			Outcome measures	Sample size	Univariable analysis				Multivariable analyses			
									Model 3[a]		Model 4[b]	
			Total n	Total N	*RR* (95% CI)	p-value	LT test p-value	Adjusted R^2	*ARR* (95% CI)	p-value	*ARR* (95% CI)	p-value
Population characteristics	Population type	MSWs, MSM, and transgender[c]	15	9,893	1.00	-	<0.001	12.87	1.00	-	1.00	-
		General populations	3	1,258	0.41 (0.11-1.55)	0.187			1.33 (0.39-4.54)	0.644	1.23 (0.35-4.27)	0.743
		Intermediate-risk populations	2	141	4.01 (0.46-34.70)	0.207			9.84 (1.42-68.10)	0.021	9.08 (1.28-64.60)	0.028
		FSWs	5	2,440	0.50 (0.16-1.61)	0.244			1.11 (0.37-3.32)	0.850	1.01 (0.33-3.05)	0.988
		Symptomatic women	5	3,813	0.27 (0.09-0.81)	0.020			1.47 (0.44-4.88)	0.526	1.16 (0.35-3.84)	0.813
		Symptomatic men	13	8,398	1.30 (0.59-2.85)	0.512			1.11 (0.55-2.23)	0.775	1.10 (0.54-2.24)	0.786
		STI clinic attendees	137	739,542	0.86 (0.49-1.52)	0.597			1.30 (0.78-2.18)	0.315	1.21 (0.72-2.04)	0.469
		HIV positive individuals and individuals in HIV discordant couples	21	4,672	1.05 (0.51-2.19)	0.887			0.92 (0.48-1.77)	0.809	0.88 (0.46-1.70)	0.708
		Sexual contacts of persons infected with NG/CT	5	467	2.97 (0.98-9.00)	0.054			3.41 (1.25-9.33)	0.017	3.56 (1.29-9.85)	0.015
		Patients with confirmed or suspected STIs and related infections	16	2,605	3.13 (1.44-6.78)	0.004			3.29 (1.65-6.57)	0.001	3.18 (1.58-6.42)	0.001
		Other populations[d]	7	1,348	1.17 (0.42-3.25)	0.762			2.21 (0.87-5.64)	0.095	2.25 (0.87-5.79)	0.093
	Age group	≤30 years	8	1,165	1.00	-	0.559	0.00	-	-	-	-
		>30 years	6	498	1.41 (0.34-5.85)	0.631			-	-	-	-
		Mixed ages	215	772,914	0.80 (0.34-1.89)	0.615			-	-	-	-
	Sex	Women	52	176,849	1.00	-	<0.001	11.86	1.00	-	1.00	-
		Men	167	579,396	2.62 (1.83-3.75)	<0.001			2.99 (2.05-4.35)	<0.001	2.74 (1.88-3.99)	<0.001
		Mixed sexes	10	18,332	2.05 (0.99-4.24)	0.052			2.05 (1.07-3.93)	0.031	2.10 (1.09-4.06)	0.027
	European Subregions	Eastern Europe	6	2,132	1.00	-	0.004	5.83	1.00	-	1.00	-
		Southern Europe	24	11,557	3.39 (1.19-9.64)	0.023			0.71 (0.24-2.10)	0.538	0.61 (0.21-1.84)	0.383
		Western Europe	120	633,385	1.58 (0.61-4.14)	0.347			0.77 (0.29-2.06)	0.607	0.66 (0.24-1.78)	0.409
		Northern Europe	78	127,487	2.25 (0.85-5.97)	0.101			0.96 (0.35-2.63)	0.932	0.82 (0.30-2.29)	0.708
		Israel, Turkey, and mixed regions	1	16	12.30 (1.17-129.80)	0.037			2.08 (0.24-17.90)	0.504	1.86 (0.21-16.60)	0.575
	Country's Income	UMIC	4	1,342	1.00	-	0.784	0.00	-	-	-	-
		HIC	225	773,235	1.18 (0.37-3.76)	0.784			-	-	-	-
Study methodology characteristics	Assay type	NAAT/PCR	121	593,512	1.00	-	0.288	0.41	-	-	-	-
		Culture	65	129,889	0.74 (0.52-1.06)	0.098			-	-	-	-
		Gram Staining	4	9,857	0.80 (0.25-2.53)	0.707			-	-	-	-
		Other/unclear	39	41,319	1.10 (0.73-1.65)	0.661			-	-	-	-
	Sample size[e]	<200	38	2,715	1.00	-	<0.001	11.42	1.00	-	1.00	-
		≥200	191	771,862	0.38 (0.26-0.56)	<0.001			0.48 (0.33-0.69)	<0.001	0.46 (0.31-0.67)	<0.001
	Sampling method	Probability based	4	1,154	1.00	-	0.927	0.00	-	-	-	-
		Non-probability based	225	773,423	0.95 (0.32-2.85)	0.927			-	-	-	-
		≥80%	7	22,936	1.00	-	0.509	0.00	-	-	-	-

	Response rate	<80%	16	5,859	0.95 (0.32-2.78)	0.925			-	-	-	-
		Unclear	206	745,782	1.32 (0.54-3.21)	0.536			-	-	-	-
Temporal trend	**Year of publication category**	<2005	50	130,383	1.00	-	<0.001	7.60	1.00	-	-	-
		2005-2014	61	133,879	1.45 (0.95-2.21)	0.088			1.54 (1.06-2.23)	0.024	-	-
		≥2015	118	310,315	2.11 (1.47-3.03)	<0.001			2.28 (1.61-3.24)	<0.001	-	-
	Year of publication		229	774,577	1.02 (1.01-1.03)	0.001	0.001	5.40	-	-	1.02 (1.01-1.04)	<0.001

[a]Adjusted R^2 in the final multivariable model 3 = 37.63%.
[b]Adjusted R^2 in the final multivariable model 4 = 35.04%.
[c]MSM, MSW, and transgender people group was used as a reference because of epidemiological relevance and because the general populations group had small number of measures.
[d]Other populations include populations with an undetermined risk of acquiring *Neisseria gonorrhoeae* infection such as patients with cervical cancer, victims of sexual assault, specimens from virology/bacteriology laboratory and requesting home-based *N. gonorrhoeae* or *Chlamydia trachomatis* testing.
[e]Sample size denotes the sample size of each study population at the baseline found in the original publication.
Abbreviations: *ARR*: Adjusted risk ratio; CI: Confidence interval; CT: *Chlamydia trachomatis*; FSWs: Female sex workers; HIC: High-income country; PCR: Polymerase chain reaction; MSM: Men who have sex with men; MSWs: Male sex workers; NAAT: Nucleic acid amplification test; NG: *Neisseria gonorrhoeae*; LT test: Likelihood ratio test; *RR*: Risk ratio; STI: Sexually transmitted infection; UMIC: Upper-middle income country.

Supplementary Table S7. Univariable and multivariable meta-regression analyses for *Neisseria gonorrhoeae* prevalence in oropharyngeal specimens in Europe using the year of publication instead of the year of data collection as the time variable.

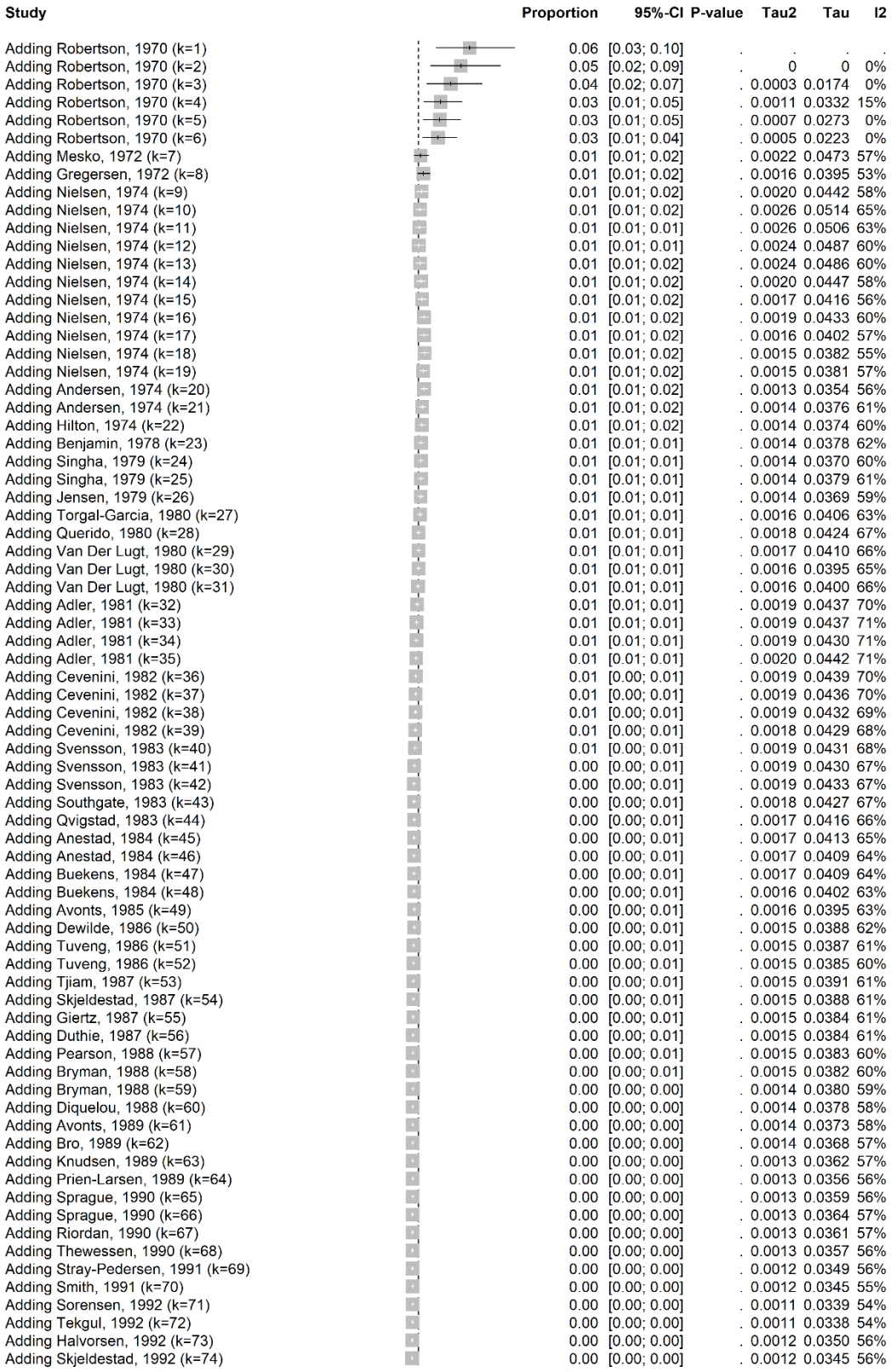
Oropharyngeal specimens			Outcome measures	Sample size	Univariable analysis				Multivariable analyses			
									Model 3[a]		Model 4[b]	
			Total n	Total N	*RR* (95% CI)	p-value	LT test p-value	Adjusted R^2	*ARR* (95% CI)	p-value	*ARR* (95% CI)	p-value
Population characteristics	**Population type**[c]	MSWs, MSM, and transgender[d]	19	11,395	1.00	-	0.266	1.56	1.00	-	1.00	-
		General populations	3	475	1.08 (0.14-8.34)	0.936			1.62 (0.25-10.60)	0.614	1.56 (0.24-10.20)	0.642
		FSWs	7	2,949	0.84 (0.31-2.28)	0.738			1.64 (0.64-4.22)	0.298	1.58 (0.62-4.05)	0.340
		STI clinic attendees	107	394,371	1.08 (0.63-1.82)	0.772			1.58 (0.98-2.55)	0.060	1.55 (0.96-2.49)	0.071
		HIV positive individuals and individuals in HIV discordant couples	14	3,510	0.87 (0.39-1.95)	0.752			0.85 (0.42-1.76)	0.668	0.78 (0.39-1.58)	0.493
		Sexual contacts of persons infected with NG/CT	3	433	4.37 (1.26-15.10)	0.020			5.10 (1.73-14.90)	0.003	5.05 (1.72-14.80)	0.003
		Patients with confirmed or suspected STIs and related infections	6	469	1.73 (0.57-5.28)	0.329			2.83 (1.05-7.65)	0.041	2.82 (1.04-7.60)	0.041
		Other populations[e]	8	1,460	1.76 (0.70-4.45)	0.224			2.58 (1.10-6.06)	0.029	2.62 (1.12-6.12)	0.026
	Age group	≤30 years	6	664	1.00	-	0.253	0.45	-	-	-	-
		>30 years	4	462	0.83 (0.16-4.37)	0.832			-	-	-	-
		Mixed ages	157	413,936	0.50 (0.20-1.22)	0.129			-	-	-	-
	Sex	Women	43	151,890	1.00	-	0.020	5.66	1.00	-	1.00	-
		Men	116	241,147	1.70 (1.15-2.50)	0.007			2.71 (1.82-4.03)	<0.001	2.63 (1.76-3.92)	<0.001
		Mixed sexes	8	22,025	1.12 (0.51-2.45)	0.767			1.50 (0.71-3.19)	0.288	1.52 (0.72-3.22)	0.275
	European Subregions	Eastern Europe	3	1,198	1.00	-	0.979	0.00	-	-	-	-
		Southern Europe	19	8,217	1.36 (0.35-5.30)	0.648			-	-	-	-
		Western Europe	85	379,721	1.31 (0.36-4.72)	0.668			-	-	-	-
		Northern Europe	57	23,580	1.43 (0.39-5.21)	0.579			-	-	-	-
		Israel, Turkey, and mixed regions	3	2,346	1.25 (0.22-7.05)	0.793			-	-	-	-
	Country's Income	UMIC	3	1,198	1.00	-	0.629	0.00	-	-	-	-
		HIC	164	413,864	1.35 (0.38-4.76)	0.629			-	-	-	-
Study methodology characteristics	**Assay type**	NAAT/PCR	102	359,846	1.00	-	0.029	4.14	1.00	-	1.00	-
		Culture	40	29,580	0.56 (0.37-0.85)	0.008			0.60 (0.35-1.05)	0.073	0.58 (0.34-1.01)	0.054
		Gram Staining	3	2,544	0.44 (0.13-1.46)	0.181			0.42 (0.14-1.23)	0.113	0.44 (0.15-1.29)	0.132
		Other/unclear	22	23,092	1.05 (0.65-1.71)	0.822			0.69 (0.43-1.10)	0.116	0.71 (0.45-1.13)	0.145
	Sample size[f]	<200	18	1,557	1.00	-	0.011	5.10	1.00	-	1.00	-
		≥200	149	413,505	0.48 (0.27-0.84)	0.011			0.42 (0.25-0.71)	0.001	0.41 (0.24-0.69)	0.001
	Sampling method	Probability based	4	1,118	1.00	-	0.505	0.00	-	-	-	-
		Non-probability based	163	413,944	1.43 (0.49-4.20)	0.505			-	-	-	-
	Response rate	≥80%	9	3,826	1.00	-	0.156	1.10	-	-	-	-
		<80%	11	3,909	0.36 (0.12-1.01)	0.054			-	-	-	-
		Unclear	147	407,327	0.59 (0.27-1.29)	0.192			-	-	-	-

Temporal trend	**Year of publication category**	<2005	27	9,573	1.00	-	<0.001	6.20	1.00	-	-	-
		2005-2014	48	150,948	1.57 (0.92-2.67)	0.094			1.34 (0.75-2.41)	0.323	-	-
		≥2015	92	254,541	2.25 (1.39-3.62)	<0.001			1.76 (0.92-3.36)	0.087	-	-
	Year of publication		167	415,062	1.03 (1.01-1.04)	0.001	0.001	8.00	-	-	1.02 (1.00-1.04)	0.107

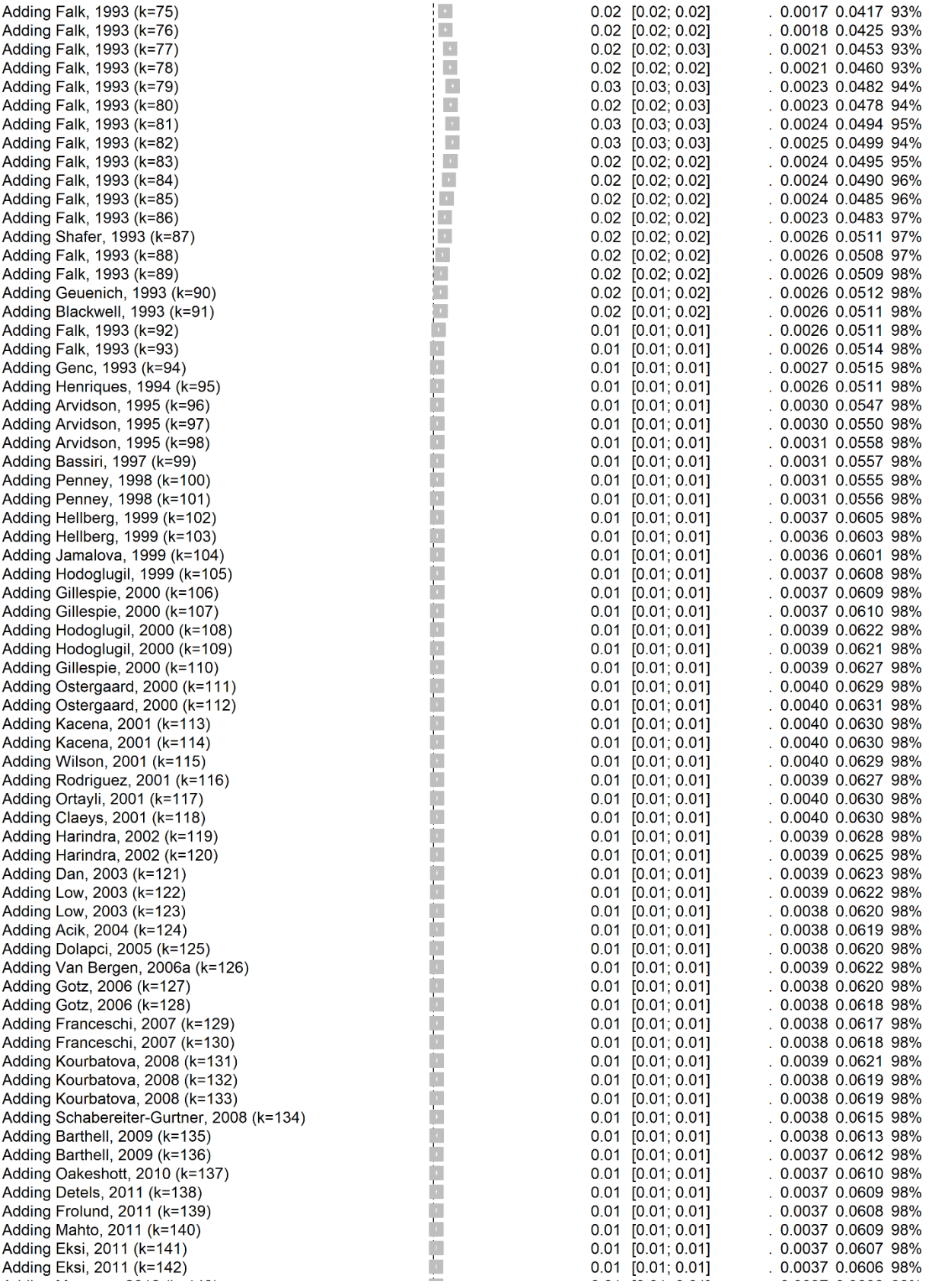
[a]Adjusted R^2 in the final multivariable model 3 = 30.02%.
[b]Adjusted R^2 in the final multivariable model 4 = 30.23%.
[c]Population classification was included in the multivariable analyses for epidemiological relevance.
[d]MSM, MSW, and transgender people group was used as a reference because of epidemiological relevance and because the general populations group had small number of measures.
[e]Other populations include populations with an undetermined risk of acquiring *Neisseria gonorrhoeae* infection such as patients with cervical cancer, victims of sexual assault, specimens from virology/bacteriology laboratory and requesting home-based *N. gonorrhoeae* or *Chlamydia trachomatis* testing.
[f]Sample size denotes the sample size of each study population at the baseline found in the original publication.
Abbreviations: *ARR*: Adjusted risk ratio; CI: Confidence interval; CT: *Chlamydia trachomatis*; FSWs: Female sex workers; HIC: High-income country; PCR: Polymerase chain reaction; MSM: Men who have sex with men; MSWs: Male sex workers; NAAT: Nucleic acid amplification test; NG: *Neisseria gonorrhoeae*; LT test: Likelihood ratio test; *RR*: Risk ratio; STI: Sexually transmitted infection; UMIC: Upper-middle income country.

Supplementary Figure S2. Forest plots displaying the results of cumulative meta-analyses, utilizing the year of publication as the ordering variable, to confirm the trend in *Neisseria gonorrhoeae* prevalence identified by the meta-regression analyses.

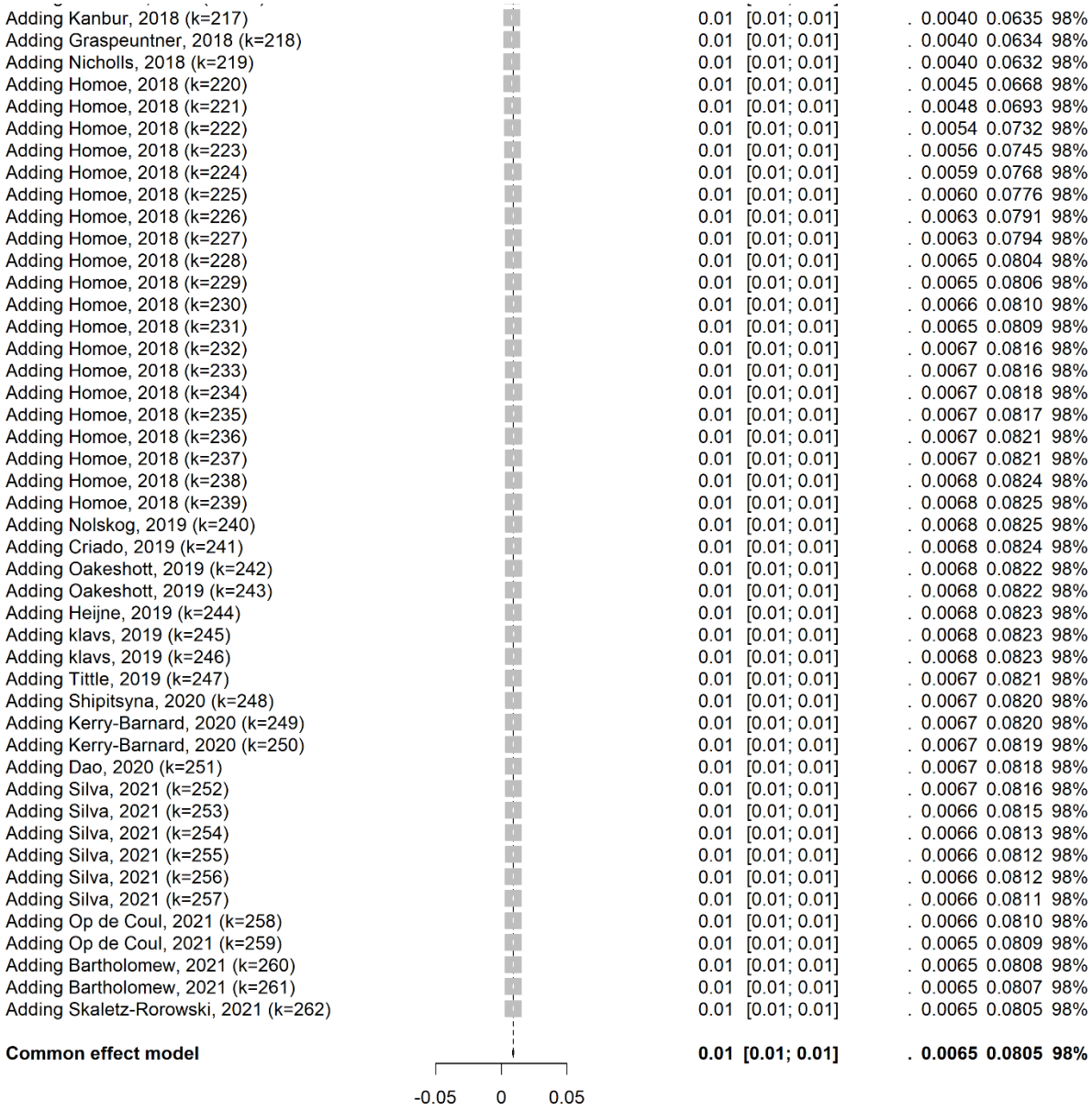
A. Urogenital[a]



Study	Proportion	95%-CI	P-value	Tau2	Tau	I2
Adding Robertson, 1970 (k=1)	0.06	[0.03; 0.10]	.	.	.	.
Adding Robertson, 1970 (k=2)	0.05	[0.02; 0.09]	.	0	0	0%
Adding Robertson, 1970 (k=3)	0.04	[0.02; 0.07]	.	0.0003	0.0174	0%
Adding Robertson, 1970 (k=4)	0.03	[0.01; 0.05]	.	0.0011	0.0332	15%
Adding Robertson, 1970 (k=5)	0.03	[0.01; 0.05]	.	0.0007	0.0273	0%
Adding Robertson, 1970 (k=6)	0.03	[0.01; 0.04]	.	0.0005	0.0223	0%
Adding Mesko, 1972 (k=7)	0.01	[0.01; 0.02]	.	0.0022	0.0473	57%
Adding Gregersen, 1972 (k=8)	0.01	[0.01; 0.02]	.	0.0016	0.0395	53%
Adding Nielsen, 1974 (k=9)	0.01	[0.01; 0.02]	.	0.0020	0.0442	58%
Adding Nielsen, 1974 (k=10)	0.01	[0.01; 0.02]	.	0.0026	0.0514	65%
Adding Nielsen, 1974 (k=11)	0.01	[0.01; 0.01]	.	0.0026	0.0506	63%
Adding Nielsen, 1974 (k=12)	0.01	[0.01; 0.01]	.	0.0024	0.0487	60%
Adding Nielsen, 1974 (k=13)	0.01	[0.01; 0.02]	.	0.0024	0.0486	60%
Adding Nielsen, 1974 (k=14)	0.01	[0.01; 0.02]	.	0.0020	0.0447	58%
Adding Nielsen, 1974 (k=15)	0.01	[0.01; 0.02]	.	0.0017	0.0416	56%
Adding Nielsen, 1974 (k=16)	0.01	[0.01; 0.02]	.	0.0019	0.0433	60%
Adding Nielsen, 1974 (k=17)	0.01	[0.01; 0.02]	.	0.0016	0.0402	57%
Adding Nielsen, 1974 (k=18)	0.01	[0.01; 0.02]	.	0.0015	0.0382	55%
Adding Nielsen, 1974 (k=19)	0.01	[0.01; 0.02]	.	0.0015	0.0381	57%
Adding Andersen, 1974 (k=20)	0.01	[0.01; 0.02]	.	0.0013	0.0354	56%
Adding Andersen, 1974 (k=21)	0.01	[0.01; 0.02]	.	0.0014	0.0376	61%
Adding Hilton, 1974 (k=22)	0.01	[0.01; 0.02]	.	0.0014	0.0374	60%
Adding Benjamin, 1978 (k=23)	0.01	[0.01; 0.01]	.	0.0014	0.0378	62%
Adding Singha, 1979 (k=24)	0.01	[0.01; 0.01]	.	0.0014	0.0370	60%
Adding Singha, 1979 (k=25)	0.01	[0.01; 0.01]	.	0.0014	0.0379	61%
Adding Jensen, 1979 (k=26)	0.01	[0.01; 0.01]	.	0.0014	0.0369	59%
Adding Torgal-Garcia, 1980 (k=27)	0.01	[0.01; 0.01]	.	0.0016	0.0406	63%
Adding Querido, 1980 (k=28)	0.01	[0.01; 0.01]	.	0.0018	0.0424	67%
Adding Van Der Lugt, 1980 (k=29)	0.01	[0.01; 0.01]	.	0.0017	0.0410	66%
Adding Van Der Lugt, 1980 (k=30)	0.01	[0.01; 0.01]	.	0.0016	0.0395	65%
Adding Van Der Lugt, 1980 (k=31)	0.01	[0.01; 0.01]	.	0.0016	0.0400	66%
Adding Adler, 1981 (k=32)	0.01	[0.01; 0.01]	.	0.0019	0.0437	70%
Adding Adler, 1981 (k=33)	0.01	[0.01; 0.01]	.	0.0019	0.0437	71%
Adding Adler, 1981 (k=34)	0.01	[0.01; 0.01]	.	0.0019	0.0430	71%
Adding Adler, 1981 (k=35)	0.01	[0.01; 0.01]	.	0.0020	0.0442	71%
Adding Cevenini, 1982 (k=36)	0.01	[0.00; 0.01]	.	0.0019	0.0439	70%
Adding Cevenini, 1982 (k=37)	0.01	[0.00; 0.01]	.	0.0019	0.0436	70%
Adding Cevenini, 1982 (k=38)	0.01	[0.00; 0.01]	.	0.0019	0.0432	69%
Adding Cevenini, 1982 (k=39)	0.01	[0.00; 0.01]	.	0.0018	0.0429	68%
Adding Svensson, 1983 (k=40)	0.01	[0.00; 0.01]	.	0.0019	0.0431	68%
Adding Svensson, 1983 (k=41)	0.00	[0.00; 0.01]	.	0.0019	0.0430	67%
Adding Svensson, 1983 (k=42)	0.00	[0.00; 0.01]	.	0.0019	0.0433	67%
Adding Southgate, 1983 (k=43)	0.00	[0.00; 0.01]	.	0.0018	0.0427	67%
Adding Qvigstad, 1983 (k=44)	0.00	[0.00; 0.01]	.	0.0017	0.0416	66%
Adding Anestad, 1984 (k=45)	0.00	[0.00; 0.01]	.	0.0017	0.0413	65%
Adding Anestad, 1984 (k=46)	0.00	[0.00; 0.01]	.	0.0017	0.0409	64%
Adding Buekens, 1984 (k=47)	0.00	[0.00; 0.01]	.	0.0017	0.0409	64%
Adding Buekens, 1984 (k=48)	0.00	[0.00; 0.01]	.	0.0016	0.0402	63%
Adding Avonts, 1985 (k=49)	0.00	[0.00; 0.01]	.	0.0016	0.0395	63%
Adding Dewilde, 1986 (k=50)	0.00	[0.00; 0.01]	.	0.0015	0.0388	62%
Adding Tuveng, 1986 (k=51)	0.00	[0.00; 0.01]	.	0.0015	0.0387	61%
Adding Tuveng, 1986 (k=52)	0.00	[0.00; 0.01]	.	0.0015	0.0385	60%
Adding Tjiam, 1987 (k=53)	0.00	[0.00; 0.01]	.	0.0015	0.0391	61%
Adding Skjeldestad, 1987 (k=54)	0.00	[0.00; 0.01]	.	0.0015	0.0388	61%
Adding Giertz, 1987 (k=55)	0.00	[0.00; 0.01]	.	0.0015	0.0384	61%
Adding Duthie, 1987 (k=56)	0.00	[0.00; 0.01]	.	0.0015	0.0384	61%
Adding Pearson, 1988 (k=57)	0.00	[0.00; 0.01]	.	0.0015	0.0383	60%
Adding Bryman, 1988 (k=58)	0.00	[0.00; 0.01]	.	0.0015	0.0382	60%
Adding Bryman, 1988 (k=59)	0.00	[0.00; 0.00]	.	0.0014	0.0380	59%
Adding Diquelou, 1988 (k=60)	0.00	[0.00; 0.00]	.	0.0014	0.0378	58%
Adding Avonts, 1989 (k=61)	0.00	[0.00; 0.00]	.	0.0014	0.0373	58%
Adding Bro, 1989 (k=62)	0.00	[0.00; 0.00]	.	0.0014	0.0368	57%
Adding Knudsen, 1989 (k=63)	0.00	[0.00; 0.00]	.	0.0013	0.0362	57%
Adding Prien-Larsen, 1989 (k=64)	0.00	[0.00; 0.00]	.	0.0013	0.0356	56%
Adding Sprague, 1990 (k=65)	0.00	[0.00; 0.00]	.	0.0013	0.0359	56%
Adding Sprague, 1990 (k=66)	0.00	[0.00; 0.00]	.	0.0013	0.0364	57%
Adding Riordan, 1990 (k=67)	0.00	[0.00; 0.00]	.	0.0013	0.0361	57%
Adding Thewessen, 1990 (k=68)	0.00	[0.00; 0.00]	.	0.0013	0.0357	56%
Adding Stray-Pedersen, 1991 (k=69)	0.00	[0.00; 0.00]	.	0.0012	0.0349	56%
Adding Smith, 1991 (k=70)	0.00	[0.00; 0.00]	.	0.0012	0.0345	55%
Adding Sorensen, 1992 (k=71)	0.00	[0.00; 0.00]	.	0.0011	0.0339	54%
Adding Tekgul, 1992 (k=72)	0.00	[0.00; 0.00]	.	0.0011	0.0338	54%
Adding Halvorsen, 1992 (k=73)	0.00	[0.00; 0.00]	.	0.0012	0.0350	56%
Adding Skjeldestad, 1992 (k=74)	0.00	[0.00; 0.00]	.	0.0012	0.0345	56%

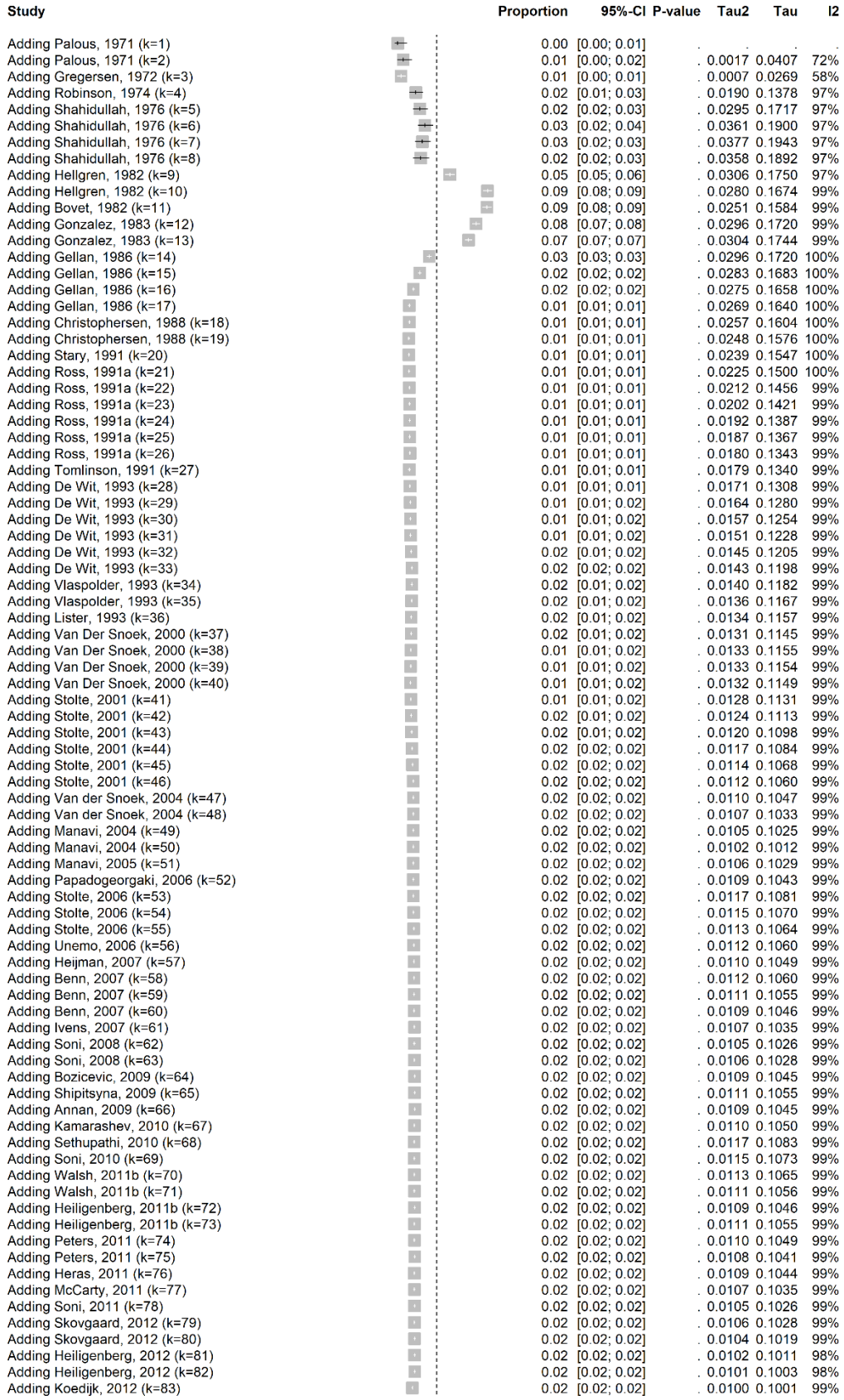

Adding Falk, 1993 (k=75) 0.02 [0.02; 0.02] . 0.0017 0.0417 93%
Adding Falk, 1993 (k=76) 0.02 [0.02; 0.02] . 0.0018 0.0425 93%
Adding Falk, 1993 (k=77) 0.02 [0.02; 0.03] . 0.0021 0.0453 93%
Adding Falk, 1993 (k=78) 0.02 [0.02; 0.02] . 0.0021 0.0460 93%
Adding Falk, 1993 (k=79) 0.03 [0.03; 0.03] . 0.0023 0.0482 94%
Adding Falk, 1993 (k=80) 0.02 [0.02; 0.03] . 0.0023 0.0478 94%
Adding Falk, 1993 (k=81) 0.03 [0.03; 0.03] . 0.0024 0.0494 95%
Adding Falk, 1993 (k=82) 0.03 [0.03; 0.03] . 0.0025 0.0499 94%
Adding Falk, 1993 (k=83) 0.02 [0.02; 0.02] . 0.0024 0.0495 95%
Adding Falk, 1993 (k=84) 0.02 [0.02; 0.02] . 0.0024 0.0490 96%
Adding Falk, 1993 (k=85) 0.02 [0.02; 0.02] . 0.0024 0.0485 96%
Adding Falk, 1993 (k=86) 0.02 [0.02; 0.02] . 0.0023 0.0483 97%
Adding Shafer, 1993 (k=87) 0.02 [0.02; 0.02] . 0.0026 0.0511 97%
Adding Falk, 1993 (k=88) 0.02 [0.02; 0.02] . 0.0026 0.0508 97%
Adding Falk, 1993 (k=89) 0.02 [0.02; 0.02] . 0.0026 0.0509 98%
Adding Geuenich, 1993 (k=90) 0.02 [0.01; 0.02] . 0.0026 0.0512 98%
Adding Blackwell, 1993 (k=91) 0.02 [0.01; 0.02] . 0.0026 0.0511 98%
Adding Falk, 1993 (k=92) 0.01 [0.01; 0.01] . 0.0026 0.0511 98%
Adding Falk, 1993 (k=93) 0.01 [0.01; 0.01] . 0.0026 0.0514 98%
Adding Genc, 1993 (k=94) 0.01 [0.01; 0.01] . 0.0027 0.0515 98%
Adding Henriques, 1994 (k=95) 0.01 [0.01; 0.01] . 0.0026 0.0511 98%
Adding Arvidson, 1995 (k=96) 0.01 [0.01; 0.01] . 0.0030 0.0547 98%
Adding Arvidson, 1995 (k=97) 0.01 [0.01; 0.01] . 0.0030 0.0550 98%
Adding Arvidson, 1995 (k=98) 0.01 [0.01; 0.01] . 0.0031 0.0558 98%
Adding Bassiri, 1997 (k=99) 0.01 [0.01; 0.01] . 0.0031 0.0557 98%
Adding Penney, 1998 (k=100) 0.01 [0.01; 0.01] . 0.0031 0.0555 98%
Adding Penney, 1998 (k=101) 0.01 [0.01; 0.01] . 0.0031 0.0556 98%
Adding Hellberg, 1999 (k=102) 0.01 [0.01; 0.01] . 0.0037 0.0605 98%
Adding Hellberg, 1999 (k=103) 0.01 [0.01; 0.01] . 0.0036 0.0603 98%
Adding Jamalova, 1999 (k=104) 0.01 [0.01; 0.01] . 0.0036 0.0601 98%
Adding Hodoglugil, 1999 (k=105) 0.01 [0.01; 0.01] . 0.0037 0.0608 98%
Adding Gillespie, 2000 (k=106) 0.01 [0.01; 0.01] . 0.0037 0.0609 98%
Adding Gillespie, 2000 (k=107) 0.01 [0.01; 0.01] . 0.0037 0.0610 98%
Adding Hodoglugil, 2000 (k=108) 0.01 [0.01; 0.01] . 0.0039 0.0622 98%
Adding Hodoglugil, 2000 (k=109) 0.01 [0.01; 0.01] . 0.0039 0.0621 98%
Adding Gillespie, 2000 (k=110) 0.01 [0.01; 0.01] . 0.0039 0.0627 98%
Adding Ostergaard, 2000 (k=111) 0.01 [0.01; 0.01] . 0.0040 0.0629 98%
Adding Ostergaard, 2000 (k=112) 0.01 [0.01; 0.01] . 0.0040 0.0631 98%
Adding Kacena, 2001 (k=113) 0.01 [0.01; 0.01] . 0.0040 0.0630 98%
Adding Kacena, 2001 (k=114) 0.01 [0.01; 0.01] . 0.0040 0.0630 98%
Adding Wilson, 2001 (k=115) 0.01 [0.01; 0.01] . 0.0040 0.0629 98%
Adding Rodriguez, 2001 (k=116) 0.01 [0.01; 0.01] . 0.0039 0.0627 98%
Adding Ortayli, 2001 (k=117) 0.01 [0.01; 0.01] . 0.0040 0.0630 98%
Adding Claeys, 2001 (k=118) 0.01 [0.01; 0.01] . 0.0040 0.0630 98%
Adding Harindra, 2002 (k=119) 0.01 [0.01; 0.01] . 0.0039 0.0628 98%
Adding Harindra, 2002 (k=120) 0.01 [0.01; 0.01] . 0.0039 0.0625 98%
Adding Dan, 2003 (k=121) 0.01 [0.01; 0.01] . 0.0039 0.0623 98%
Adding Low, 2003 (k=122) 0.01 [0.01; 0.01] . 0.0039 0.0622 98%
Adding Low, 2003 (k=123) 0.01 [0.01; 0.01] . 0.0038 0.0620 98%
Adding Acik, 2004 (k=124) 0.01 [0.01; 0.01] . 0.0038 0.0619 98%
Adding Dolapci, 2005 (k=125) 0.01 [0.01; 0.01] . 0.0038 0.0620 98%
Adding Van Bergen, 2006a (k=126) 0.01 [0.01; 0.01] . 0.0039 0.0622 98%
Adding Gotz, 2006 (k=127) 0.01 [0.01; 0.01] . 0.0038 0.0620 98%
Adding Gotz, 2006 (k=128) 0.01 [0.01; 0.01] . 0.0038 0.0618 98%
Adding Franceschi, 2007 (k=129) 0.01 [0.01; 0.01] . 0.0038 0.0617 98%
Adding Franceschi, 2007 (k=130) 0.01 [0.01; 0.01] . 0.0038 0.0618 98%
Adding Kourbatova, 2008 (k=131) 0.01 [0.01; 0.01] . 0.0039 0.0621 98%
Adding Kourbatova, 2008 (k=132) 0.01 [0.01; 0.01] . 0.0038 0.0619 98%
Adding Kourbatova, 2008 (k=133) 0.01 [0.01; 0.01] . 0.0038 0.0619 98%
Adding Schabereiter-Gurtner, 2008 (k=134) 0.01 [0.01; 0.01] . 0.0038 0.0615 98%
Adding Barthell, 2009 (k=135) 0.01 [0.01; 0.01] . 0.0038 0.0613 98%
Adding Barthell, 2009 (k=136) 0.01 [0.01; 0.01] . 0.0037 0.0612 98%
Adding Oakeshott, 2010 (k=137) 0.01 [0.01; 0.01] . 0.0037 0.0610 98%
Adding Detels, 2011 (k=138) 0.01 [0.01; 0.01] . 0.0037 0.0609 98%
Adding Frolund, 2011 (k=139) 0.01 [0.01; 0.01] . 0.0037 0.0608 98%
Adding Mahto, 2011 (k=140) 0.01 [0.01; 0.01] . 0.0037 0.0609 98%
Adding Eksi, 2011 (k=141) 0.01 [0.01; 0.01] . 0.0037 0.0607 98%
Adding Eksi, 2011 (k=142) 0.01 [0.01; 0.01] . 0.0037 0.0606 98%

Adding Marcone, 2012 (k=143)	0.01	[0.01; 0.01]	.	0.0037	0.0608	98%
Adding Borges-Costa, 2012 (k=144)	0.01	[0.01; 0.01]	.	0.0038	0.0615	98%
Adding Skovgaard, 2012 (k=145)	0.01	[0.01; 0.01]	.	0.0038	0.0615	98%
Adding Skovgaard, 2012 (k=146)	0.01	[0.01; 0.01]	.	0.0037	0.0611	98%
Adding Gesink, 2012 (k=147)	0.01	[0.01; 0.01]	.	0.0037	0.0610	98%
Adding Surel, 2012 (k=148)	0.01	[0.01; 0.01]	.	0.0037	0.0607	98%
Adding Surel, 2012 (k=149)	0.01	[0.01; 0.01]	.	0.0037	0.0607	98%
Adding Pagani, 2012 (k=150)	0.01	[0.01; 0.01]	.	0.0037	0.0605	98%
Adding Papanagiotou, 2012 (k=151)	0.01	[0.01; 0.01]	.	0.0037	0.0608	98%
Adding Papanagiotou, 2012 (k=152)	0.01	[0.01; 0.01]	.	0.0037	0.0611	98%
Adding Dhairyawan, 2012 (k=153)	0.01	[0.01; 0.01]	.	0.0037	0.0612	98%
Adding Rimoldi, 2012 (k=154)	0.01	[0.01; 0.01]	.	0.0037	0.0611	98%
Adding Dautigny, 2013 (k=155)	0.01	[0.01; 0.01]	.	0.0038	0.0613	98%
Adding Dautigny, 2013 (k=156)	0.01	[0.01; 0.01]	.	0.0037	0.0610	98%
Adding Tomusiak, 2013 (k=157)	0.01	[0.01; 0.01]	.	0.0037	0.0609	98%
Adding Frolova, 2013 (k=158)	0.01	[0.01; 0.01]	.	0.0037	0.0606	98%
Adding Fowler, 2013 (k=159)	0.01	[0.01; 0.01]	.	0.0037	0.0605	98%
Adding Fowler, 2013 (k=160)	0.01	[0.01; 0.01]	.	0.0036	0.0602	98%
Adding Bayette, 2013 (k=161)	0.01	[0.01; 0.01]	.	0.0038	0.0619	98%
Adding Bayette, 2013 (k=162)	0.01	[0.01; 0.01]	.	0.0038	0.0616	98%
Adding Geelen, 2013 (k=163)	0.01	[0.01; 0.01]	.	0.0038	0.0614	98%
Adding Miron, 2013 (k=164)	0.01	[0.01; 0.01]	.	0.0038	0.0613	98%
Adding Shipitsyna, 2013 (k=165)	0.01	[0.01; 0.01]	.	0.0037	0.0611	98%
Adding Shipitsyna, 2013 (k=166)	0.01	[0.01; 0.01]	.	0.0037	0.0610	98%
Adding Sonnenberg, 2013 (k=167)	0.01	[0.01; 0.01]	.	0.0037	0.0609	98%
Adding Sonnenberg, 2013 (k=168)	0.01	[0.01; 0.01]	.	0.0037	0.0608	98%
Adding Sonnenberg, 2013 (k=169)	0.01	[0.01; 0.01]	.	0.0037	0.0607	98%
Adding Sonnenberg, 2013 (k=170)	0.01	[0.01; 0.01]	.	0.0037	0.0609	98%
Adding Sonnenberg, 2013 (k=171)	0.01	[0.01; 0.01]	.	0.0037	0.0609	98%
Adding Sonnenberg, 2013 (k=172)	0.01	[0.01; 0.01]	.	0.0037	0.0608	98%
Adding Sonnenberg, 2013 (k=173)	0.01	[0.01; 0.01]	.	0.0037	0.0607	98%
Adding Sonnenberg, 2013 (k=174)	0.01	[0.01; 0.01]	.	0.0037	0.0606	98%
Adding Sonnenberg, 2013 (k=175)	0.01	[0.01; 0.01]	.	0.0037	0.0606	98%
Adding Sonnenberg, 2013 (k=176)	0.01	[0.01; 0.01]	.	0.0037	0.0606	98%
Adding Jaureguy, 2013 (k=177)	0.01	[0.01; 0.01]	.	0.0037	0.0608	98%
Adding Bremer, 2013 (k=178)	0.01	[0.01; 0.01]	.	0.0037	0.0606	98%
Adding Wesbonk, 2014 (k=179)	0.01	[0.01; 0.01]	.	0.0036	0.0604	98%
Adding Plecko, 2014 (k=180)	0.01	[0.01; 0.01]	.	0.0036	0.0603	98%
Adding Peuchant, 2015b (k=181)	0.01	[0.01; 0.01]	.	0.0036	0.0604	98%
Adding Peuchant, 2015b (k=182)	0.01	[0.01; 0.01]	.	0.0037	0.0605	98%
Adding Bercot, 2015 (k=183)	0.01	[0.01; 0.01]	.	0.0038	0.0619	98%
Adding Bourgeois-Nicolaos, 2015 (k=184)	0.01	[0.01; 0.01]	.	0.0039	0.0623	98%
Adding Bourgeois-Nicolaos, 2015 (k=185)	0.01	[0.01; 0.01]	.	0.0039	0.0628	98%
Adding Bourgeois-Nicolaos, 2015 (k=186)	0.01	[0.01; 0.01]	.	0.0039	0.0626	98%
Adding Peuchant, 2015a (k=187)	0.01	[0.01; 0.01]	.	0.0039	0.0625	98%
Adding Peuchant, 2015a (k=188)	0.01	[0.01; 0.01]	.	0.0039	0.0624	98%
Adding Ebel, 2015 (k=189)	0.01	[0.01; 0.01]	.	0.0039	0.0621	98%
Adding Ebel, 2015 (k=190)	0.01	[0.01; 0.01]	.	0.0039	0.0628	98%
Adding Hay, 2016 (k=191)	0.01	[0.01; 0.01]	.	0.0039	0.0626	98%
Adding Matteelli, 2016 (k=192)	0.01	[0.01; 0.01]	.	0.0039	0.0627	98%
Adding Matteelli, 2016 (k=193)	0.01	[0.01; 0.01]	.	0.0039	0.0628	98%
Adding Camporiondo, 2016 (k=194)	0.01	[0.01; 0.01]	.	0.0039	0.0628	98%
Adding Hassan, 2016 (k=195)	0.01	[0.01; 0.01]	.	0.0039	0.0628	98%
Adding Frati, 2017 (k=196)	0.01	[0.01; 0.01]	.	0.0039	0.0626	98%
Adding Sambri, 2017 (k=197)	0.01	[0.01; 0.01]	.	0.0039	0.0625	98%
Adding Jenniskens, 2017 (k=198)	0.01	[0.01; 0.01]	.	0.0039	0.0623	98%
Adding Pereyre, 2017 (k=199)	0.01	[0.01; 0.01]	.	0.0039	0.0621	98%
Adding Pereyre, 2017 (k=200)	0.01	[0.01; 0.01]	.	0.0039	0.0623	98%
Adding Pereyre, 2017 (k=201)	0.01	[0.01; 0.01]	.	0.0039	0.0624	98%
Adding Pereyre, 2017 (k=202)	0.01	[0.01; 0.01]	.	0.0039	0.0626	98%
Adding Pereyre, 2017 (k=203)	0.01	[0.01; 0.01]	.	0.0039	0.0626	98%
Adding Pereyre, 2017 (k=204)	0.01	[0.01; 0.01]	.	0.0039	0.0628	98%
Adding Pereyre, 2017 (k=205)	0.01	[0.01; 0.01]	.	0.0040	0.0634	98%
Adding Pereyre, 2017 (k=206)	0.01	[0.01; 0.01]	.	0.0040	0.0634	98%
Adding Pereyre, 2017 (k=207)	0.01	[0.01; 0.01]	.	0.0040	0.0633	98%
Adding Pereyre, 2017 (k=208)	0.01	[0.01; 0.01]	.	0.0040	0.0634	98%
Adding Pereyre, 2017 (k=209)	0.01	[0.01; 0.01]	.	0.0041	0.0641	98%
Adding Pereyre, 2017 (k=210)	0.01	[0.01; 0.01]	.	0.0041	0.0639	98%
Adding Pereyre, 2017 (k=211)	0.01	[0.01; 0.01]	.	0.0041	0.0638	98%
Adding Pereyre, 2017 (k=212)	0.01	[0.01; 0.01]	.	0.0040	0.0636	98%
Adding Pereyre, 2017 (k=213)	0.01	[0.01; 0.01]	.	0.0040	0.0635	98%
Adding Pereyre, 2017 (k=214)	0.01	[0.01; 0.01]	.	0.0040	0.0635	98%
Adding Del Prete, 2017 (k=215)	0.01	[0.01; 0.01]	.	0.0040	0.0634	98%
Adding Del Prete, 2017 (k=216)	0.01	[0.01; 0.01]	.	0.0041	0.0637	98%



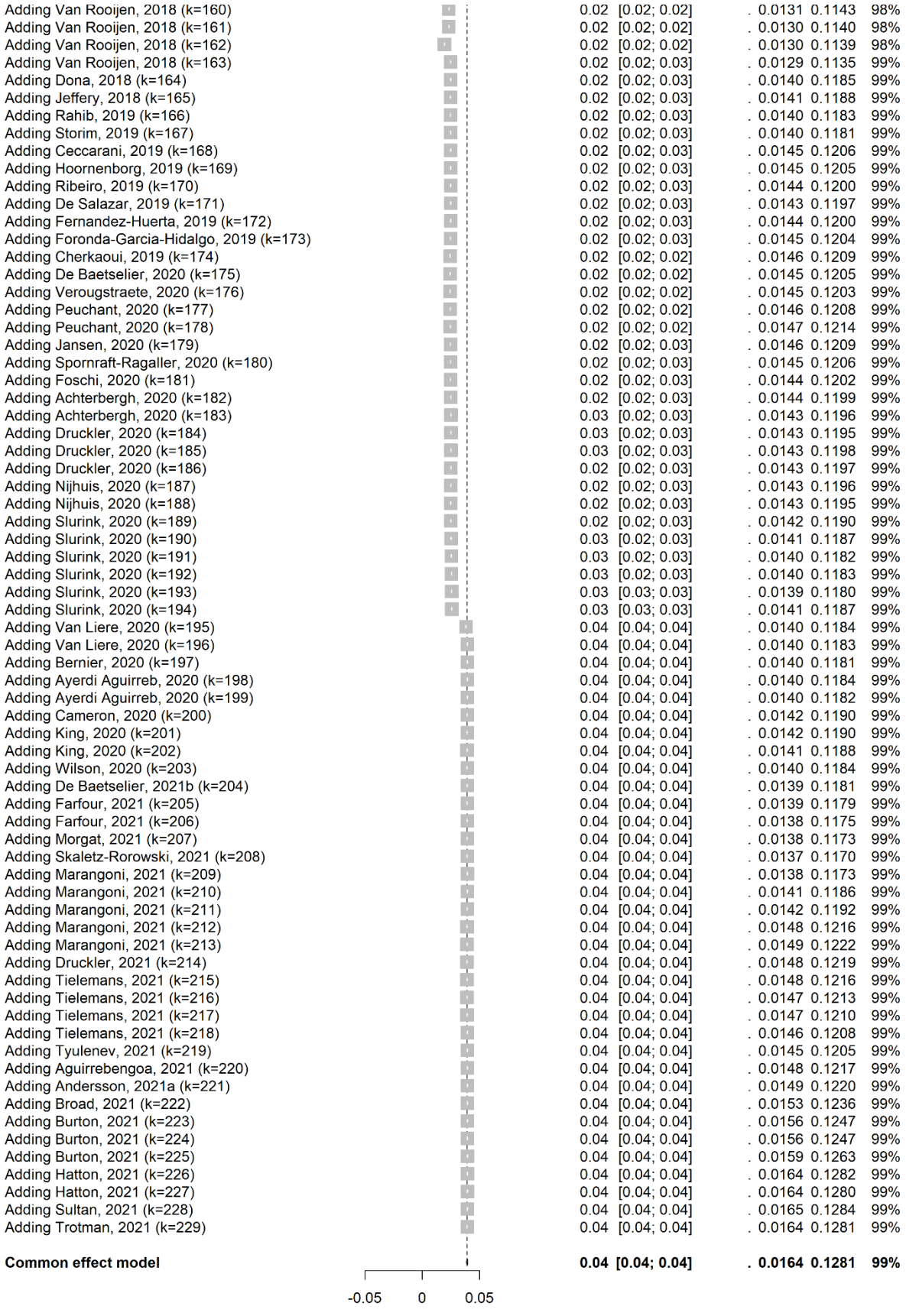
[a] For the cumulative meta-analysis of urogenital measures, only measures from general populations were included due to technical limitations. Attempting to include the very large urogenital dataset for all population types encountered code-related challenges in conducting this analysis.

B. Anorectal

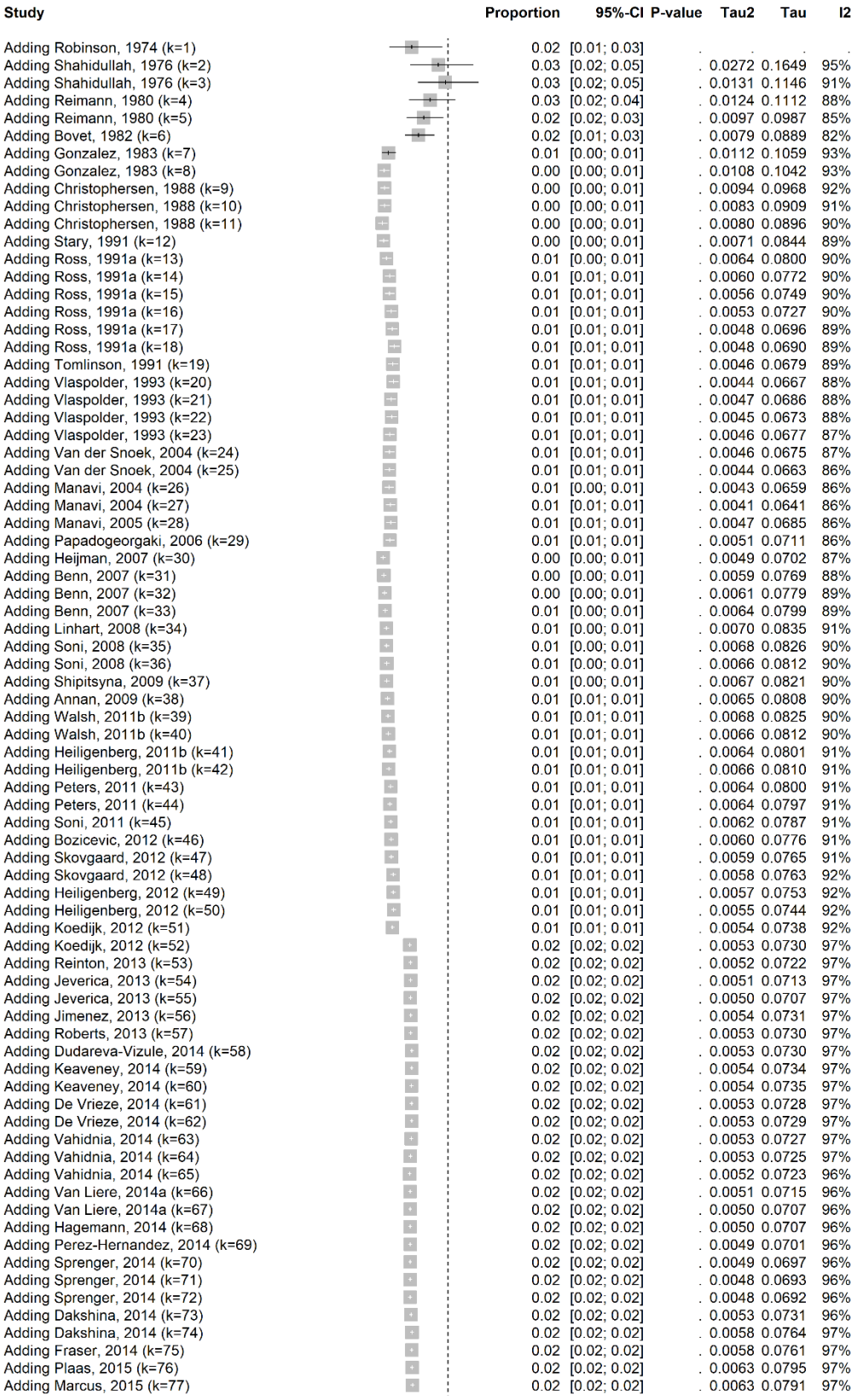


Study	Proportion	95%-CI	P-value	Tau2	Tau	I2
Adding Palous, 1971 (k=1)	0.00	[0.00; 0.01]	.	.	.	.
Adding Palous, 1971 (k=2)	0.01	[0.00; 0.02]	.	0.0017	0.0407	72%
Adding Gregersen, 1972 (k=3)	0.01	[0.00; 0.01]	.	0.0007	0.0269	58%
Adding Robinson, 1974 (k=4)	0.02	[0.01; 0.03]	.	0.0190	0.1378	97%
Adding Shahidullah, 1976 (k=5)	0.02	[0.02; 0.03]	.	0.0295	0.1717	97%
Adding Shahidullah, 1976 (k=6)	0.03	[0.02; 0.04]	.	0.0361	0.1900	97%
Adding Shahidullah, 1976 (k=7)	0.03	[0.02; 0.03]	.	0.0377	0.1943	97%
Adding Shahidullah, 1976 (k=8)	0.02	[0.02; 0.03]	.	0.0358	0.1892	97%
Adding Hellgren, 1982 (k=9)	0.05	[0.05; 0.06]	.	0.0306	0.1750	97%
Adding Hellgren, 1982 (k=10)	0.09	[0.08; 0.09]	.	0.0280	0.1674	99%
Adding Bovet, 1982 (k=11)	0.09	[0.08; 0.09]	.	0.0251	0.1584	99%
Adding Gonzalez, 1983 (k=12)	0.08	[0.07; 0.08]	.	0.0296	0.1720	99%
Adding Gonzalez, 1983 (k=13)	0.07	[0.07; 0.07]	.	0.0304	0.1744	99%
Adding Gellan, 1986 (k=14)	0.03	[0.03; 0.03]	.	0.0296	0.1720	100%
Adding Gellan, 1986 (k=15)	0.02	[0.02; 0.02]	.	0.0283	0.1683	100%
Adding Gellan, 1986 (k=16)	0.02	[0.02; 0.02]	.	0.0275	0.1658	100%
Adding Gellan, 1986 (k=17)	0.01	[0.01; 0.01]	.	0.0269	0.1640	100%
Adding Christophersen, 1988 (k=18)	0.01	[0.01; 0.01]	.	0.0257	0.1604	100%
Adding Christophersen, 1988 (k=19)	0.01	[0.01; 0.01]	.	0.0248	0.1576	100%
Adding Stary, 1991 (k=20)	0.01	[0.01; 0.01]	.	0.0239	0.1547	100%
Adding Ross, 1991a (k=21)	0.01	[0.01; 0.01]	.	0.0225	0.1500	100%
Adding Ross, 1991a (k=22)	0.01	[0.01; 0.01]	.	0.0212	0.1456	99%
Adding Ross, 1991a (k=23)	0.01	[0.01; 0.01]	.	0.0202	0.1421	99%
Adding Ross, 1991a (k=24)	0.01	[0.01; 0.01]	.	0.0192	0.1387	99%
Adding Ross, 1991a (k=25)	0.01	[0.01; 0.01]	.	0.0187	0.1367	99%
Adding Ross, 1991a (k=26)	0.01	[0.01; 0.01]	.	0.0180	0.1343	99%
Adding Tomlinson, 1991 (k=27)	0.01	[0.01; 0.01]	.	0.0179	0.1340	99%
Adding De Wit, 1993 (k=28)	0.01	[0.01; 0.01]	.	0.0171	0.1308	99%
Adding De Wit, 1993 (k=29)	0.01	[0.01; 0.02]	.	0.0164	0.1280	99%
Adding De Wit, 1993 (k=30)	0.01	[0.01; 0.02]	.	0.0157	0.1254	99%
Adding De Wit, 1993 (k=31)	0.01	[0.01; 0.02]	.	0.0151	0.1228	99%
Adding De Wit, 1993 (k=32)	0.02	[0.01; 0.02]	.	0.0145	0.1205	99%
Adding De Wit, 1993 (k=33)	0.02	[0.02; 0.02]	.	0.0143	0.1198	99%
Adding Vlaspolder, 1993 (k=34)	0.02	[0.01; 0.02]	.	0.0140	0.1182	99%
Adding Vlaspolder, 1993 (k=35)	0.02	[0.01; 0.02]	.	0.0136	0.1167	99%
Adding Lister, 1993 (k=36)	0.02	[0.01; 0.02]	.	0.0134	0.1157	99%
Adding Van Der Snoek, 2000 (k=37)	0.02	[0.01; 0.02]	.	0.0131	0.1145	99%
Adding Van Der Snoek, 2000 (k=38)	0.01	[0.01; 0.02]	.	0.0133	0.1155	99%
Adding Van Der Snoek, 2000 (k=39)	0.01	[0.01; 0.02]	.	0.0133	0.1154	99%
Adding Van Der Snoek, 2000 (k=40)	0.01	[0.01; 0.02]	.	0.0132	0.1149	99%
Adding Stolte, 2001 (k=41)	0.01	[0.01; 0.02]	.	0.0128	0.1131	99%
Adding Stolte, 2001 (k=42)	0.02	[0.01; 0.02]	.	0.0124	0.1113	99%
Adding Stolte, 2001 (k=43)	0.02	[0.01; 0.02]	.	0.0120	0.1098	99%
Adding Stolte, 2001 (k=44)	0.02	[0.02; 0.02]	.	0.0117	0.1084	99%
Adding Stolte, 2001 (k=45)	0.02	[0.02; 0.02]	.	0.0114	0.1068	99%
Adding Stolte, 2001 (k=46)	0.02	[0.02; 0.02]	.	0.0112	0.1060	99%
Adding Van der Snoek, 2004 (k=47)	0.02	[0.02; 0.02]	.	0.0110	0.1047	99%
Adding Van der Snoek, 2004 (k=48)	0.02	[0.02; 0.02]	.	0.0107	0.1033	99%
Adding Manavi, 2004 (k=49)	0.02	[0.02; 0.02]	.	0.0105	0.1025	99%
Adding Manavi, 2004 (k=50)	0.02	[0.02; 0.02]	.	0.0102	0.1012	99%
Adding Manavi, 2005 (k=51)	0.02	[0.02; 0.02]	.	0.0106	0.1029	99%
Adding Papadogeorgaki, 2006 (k=52)	0.02	[0.02; 0.02]	.	0.0109	0.1043	99%
Adding Stolte, 2006 (k=53)	0.02	[0.02; 0.02]	.	0.0117	0.1081	99%
Adding Stolte, 2006 (k=54)	0.02	[0.02; 0.02]	.	0.0115	0.1070	99%
Adding Stolte, 2006 (k=55)	0.02	[0.02; 0.02]	.	0.0113	0.1064	99%
Adding Unemo, 2006 (k=56)	0.02	[0.02; 0.02]	.	0.0112	0.1060	99%
Adding Heijman, 2007 (k=57)	0.02	[0.02; 0.02]	.	0.0110	0.1049	99%
Adding Benn, 2007 (k=58)	0.02	[0.02; 0.02]	.	0.0112	0.1060	99%
Adding Benn, 2007 (k=59)	0.02	[0.02; 0.02]	.	0.0111	0.1055	99%
Adding Benn, 2007 (k=60)	0.02	[0.02; 0.02]	.	0.0109	0.1046	99%
Adding Ivens, 2007 (k=61)	0.02	[0.02; 0.02]	.	0.0107	0.1035	99%
Adding Soni, 2008 (k=62)	0.02	[0.02; 0.02]	.	0.0105	0.1026	99%
Adding Soni, 2008 (k=63)	0.02	[0.02; 0.02]	.	0.0106	0.1028	99%
Adding Bozicevic, 2009 (k=64)	0.02	[0.02; 0.02]	.	0.0109	0.1045	99%
Adding Shipitsyna, 2009 (k=65)	0.02	[0.02; 0.02]	.	0.0111	0.1055	99%
Adding Annan, 2009 (k=66)	0.02	[0.02; 0.02]	.	0.0109	0.1045	99%
Adding Kamarashev, 2010 (k=67)	0.02	[0.02; 0.02]	.	0.0110	0.1050	99%
Adding Sethupathi, 2010 (k=68)	0.02	[0.02; 0.02]	.	0.0117	0.1083	99%
Adding Soni, 2010 (k=69)	0.02	[0.02; 0.02]	.	0.0115	0.1073	99%
Adding Walsh, 2011b (k=70)	0.02	[0.02; 0.02]	.	0.0113	0.1065	99%
Adding Walsh, 2011b (k=71)	0.02	[0.02; 0.02]	.	0.0111	0.1056	99%
Adding Heiligenberg, 2011b (k=72)	0.02	[0.02; 0.02]	.	0.0109	0.1046	99%
Adding Heiligenberg, 2011b (k=73)	0.02	[0.02; 0.02]	.	0.0111	0.1055	99%
Adding Peters, 2011 (k=74)	0.02	[0.02; 0.02]	.	0.0110	0.1049	99%
Adding Peters, 2011 (k=75)	0.02	[0.02; 0.02]	.	0.0108	0.1041	99%
Adding Heras, 2011 (k=76)	0.02	[0.02; 0.02]	.	0.0109	0.1044	99%
Adding McCarty, 2011 (k=77)	0.02	[0.02; 0.02]	.	0.0107	0.1035	99%
Adding Soni, 2011 (k=78)	0.02	[0.02; 0.02]	.	0.0105	0.1026	99%
Adding Skovgaard, 2012 (k=79)	0.02	[0.02; 0.02]	.	0.0106	0.1028	99%
Adding Skovgaard, 2012 (k=80)	0.02	[0.02; 0.02]	.	0.0104	0.1019	99%
Adding Heiligenberg, 2012 (k=81)	0.02	[0.02; 0.02]	.	0.0102	0.1011	98%
Adding Heiligenberg, 2012 (k=82)	0.02	[0.02; 0.02]	.	0.0101	0.1003	98%
Adding Koedijk, 2012 (k=83)	0.02	[0.02; 0.02]	.	0.0100	0.1001	99%

Adding Koedijk, 2012 (k=84)	0.02	[0.02; 0.02]	.	0.0099	0.0994	99%
Adding Geelen, 2013 (k=85)	0.02	[0.02; 0.02]	.	0.0098	0.0988	99%
Adding Vriend, 2013 (k=86)	0.02	[0.02; 0.02]	.	0.0096	0.0982	99%
Adding Vriend, 2013 (k=87)	0.02	[0.02; 0.02]	.	0.0096	0.0981	99%
Adding Reinton, 2013 (k=88)	0.02	[0.02; 0.02]	.	0.0095	0.0974	99%
Adding Jeverica, 2013 (k=89)	0.02	[0.02; 0.02]	.	0.0095	0.0974	99%
Adding Roberts, 2013 (k=90)	0.02	[0.02; 0.02]	.	0.0094	0.0967	99%
Adding Dudareva-Vizule, 2014 (k=91)	0.02	[0.02; 0.02]	.	0.0092	0.0960	99%
Adding Keaveney, 2014 (k=92)	0.02	[0.02; 0.02]	.	0.0092	0.0959	99%
Adding Keaveney, 2014 (k=93)	0.02	[0.02; 0.02]	.	0.0091	0.0955	99%
Adding De Vrieze, 2014 (k=94)	0.02	[0.02; 0.02]	.	0.0090	0.0951	99%
Adding De Vrieze, 2014 (k=95)	0.02	[0.02; 0.02]	.	0.0089	0.0944	99%
Adding Vahidnia, 2014 (k=96)	0.02	[0.02; 0.02]	.	0.0089	0.0942	99%
Adding Vahidnia, 2014 (k=97)	0.02	[0.02; 0.02]	.	0.0088	0.0940	99%
Adding Vahidnia, 2014 (k=98)	0.02	[0.02; 0.02]	.	0.0088	0.0938	99%
Adding Van Liere, 2014a (k=99)	0.02	[0.02; 0.02]	.	0.0087	0.0931	99%
Adding Van Liere, 2014a (k=100)	0.02	[0.02; 0.02]	.	0.0087	0.0932	99%
Adding Van Liere, 2014b (k=101)	0.02	[0.02; 0.02]	.	0.0090	0.0947	99%
Adding Hagemann, 2014 (k=102)	0.02	[0.02; 0.02]	.	0.0090	0.0947	99%
Adding Perez-Hernandez, 2014 (k=103)	0.02	[0.02; 0.02]	.	0.0089	0.0941	99%
Adding Rodríguez-Domínguez, 2014 (k=104)	0.02	[0.02; 0.02]	.	0.0092	0.0957	99%
Adding Sprenger, 2014 (k=105)	0.02	[0.02; 0.02]	.	0.0091	0.0952	99%
Adding Sprenger, 2014 (k=106)	0.02	[0.02; 0.02]	.	0.0091	0.0954	99%
Adding Sprenger, 2014 (k=107)	0.02	[0.02; 0.02]	.	0.0091	0.0953	99%
Adding Cresswell, 2014 (k=108)	0.02	[0.02; 0.02]	.	0.0090	0.0951	99%
Adding Dolling, 2014 (k=109)	0.02	[0.02; 0.02]	.	0.0089	0.0945	99%
Adding Fraser, 2014 (k=110)	0.02	[0.02; 0.02]	.	0.0089	0.0942	98%
Adding Ward, 2014 (k=111)	0.02	[0.02; 0.02]	.	0.0090	0.0947	98%
Adding Plaas, 2015 (k=112)	0.02	[0.02; 0.02]	.	0.0089	0.0942	98%
Adding Marcus, 2015 (k=113)	0.02	[0.02; 0.02]	.	0.0088	0.0936	98%
Adding Spauwen, 2015 (k=114)	0.02	[0.02; 0.02]	.	0.0088	0.0939	98%
Adding Van Liere, 2015 (k=115)	0.02	[0.02; 0.02]	.	0.0088	0.0939	98%
Adding Van Liere, 2015 (k=116)	0.02	[0.02; 0.02]	.	0.0087	0.0934	98%
Adding Van Rooijen, 2015 (k=117)	0.02	[0.02; 0.02]	.	0.0086	0.0928	98%
Adding Van Rooijen, 2015 (k=118)	0.02	[0.02; 0.02]	.	0.0088	0.0936	98%
Adding Van Rooijen, 2015 (k=119)	0.02	[0.02; 0.02]	.	0.0088	0.0938	98%
Adding Van Rooijen, 2015 (k=120)	0.02	[0.02; 0.02]	.	0.0087	0.0933	98%
Adding Verscheijden, 2015 (k=121)	0.02	[0.02; 0.02]	.	0.0086	0.0929	98%
Adding Verscheijden, 2015 (k=122)	0.02	[0.02; 0.02]	.	0.0086	0.0927	98%
Adding Verscheijden, 2015 (k=123)	0.02	[0.02; 0.02]	.	0.0086	0.0926	98%
Adding Verscheijden, 2015 (k=124)	0.02	[0.02; 0.02]	.	0.0085	0.0924	98%
Adding Verscheijden, 2015 (k=125)	0.02	[0.02; 0.02]	.	0.0085	0.0922	98%
Adding Verscheijden, 2015 (k=126)	0.02	[0.02; 0.02]	.	0.0085	0.0922	98%
Adding Wind, 2015 (k=127)	0.02	[0.02; 0.02]	.	0.0086	0.0926	98%
Adding Wind, 2015 (k=128)	0.02	[0.02; 0.02]	.	0.0085	0.0924	98%
Adding Garner, 2015 (k=129)	0.02	[0.02; 0.02]	.	0.0086	0.0926	98%
Adding Garner, 2015 (k=130)	0.02	[0.02; 0.02]	.	0.0085	0.0921	98%
Adding Garner, 2015 (k=131)	0.02	[0.02; 0.02]	.	0.0084	0.0919	98%
Adding Garner, 2015 (k=132)	0.02	[0.02; 0.02]	.	0.0084	0.0918	98%
Adding Thorsteinsson, 2016 (k=133)	0.02	[0.02; 0.02]	.	0.0086	0.0926	98%
Adding Jaureguy, 2016 (k=134)	0.02	[0.02; 0.02]	.	0.0086	0.0928	98%
Adding Fuchs, 2016 (k=135)	0.02	[0.02; 0.02]	.	0.0087	0.0930	98%
Adding Cabello Ubeda, 2016 (k=136)	0.02	[0.02; 0.02]	.	0.0087	0.0932	98%
Adding Moreno-Ribera, 2016 (k=137)	0.02	[0.02; 0.02]	.	0.0087	0.0931	98%
Adding Gardner, 2016 (k=138)	0.02	[0.02; 0.02]	.	0.0087	0.0935	98%
Adding Gardner, 2016 (k=139)	0.02	[0.02; 0.02]	.	0.0090	0.0951	98%
Adding Gardner, 2016 (k=140)	0.02	[0.02; 0.02]	.	0.0097	0.0983	98%
Adding Sultan, 2016 (k=141)	0.02	[0.02; 0.02]	.	0.0100	0.1000	98%
Adding Apers, 2017 (k=142)	0.02	[0.02; 0.02]	.	0.0109	0.1042	98%
Adding Edouard, 2017a (k=143)	0.02	[0.02; 0.02]	.	0.0108	0.1038	98%
Adding Edouard, 2017b (k=144)	0.02	[0.02; 0.02]	.	0.0108	0.1039	98%
Adding Fata, 2017 (k=145)	0.02	[0.02; 0.02]	.	0.0107	0.1035	98%
Adding Achterbergh, 2017 (k=146)	0.02	[0.02; 0.02]	.	0.0106	0.1030	98%
Adding Den Heijer, 2017 (k=147)	0.02	[0.02; 0.02]	.	0.0106	0.1028	98%
Adding Den Heijer, 2017 (k=148)	0.02	[0.02; 0.02]	.	0.0105	0.1023	98%
Adding Cox, 2017 (k=149)	0.02	[0.02; 0.02]	.	0.0104	0.1019	98%
Adding Davies, 2017 (k=150)	0.02	[0.02; 0.02]	.	0.0107	0.1032	98%
Adding Lawrence, 2017 (k=151)	0.02	[0.02; 0.02]	.	0.0108	0.1041	98%
Adding Marchant, 2017 (k=152)	0.02	[0.02; 0.02]	.	0.0110	0.1050	98%
Adding Sacks, 2017 (k=153)	0.02	[0.02; 0.02]	.	0.0118	0.1088	98%
Adding Lourtet Hascoet, 2018 (k=154)	0.02	[0.02; 0.02]	.	0.0126	0.1122	98%
Adding Lourtet Hascoet, 2018 (k=155)	0.02	[0.02; 0.02]	.	0.0131	0.1145	98%
Adding Spinner, 2018 (k=156)	0.02	[0.02; 0.02]	.	0.0130	0.1141	98%
Adding Levy, 2018 (k=157)	0.02	[0.02; 0.02]	.	0.0133	0.1151	98%
Adding Druckler, 2018 (k=158)	0.02	[0.02; 0.02]	.	0.0132	0.1148	98%
Adding Matser, 2018 (k=159)	0.02	[0.02; 0.02]	.	0.0131	0.1143	98%

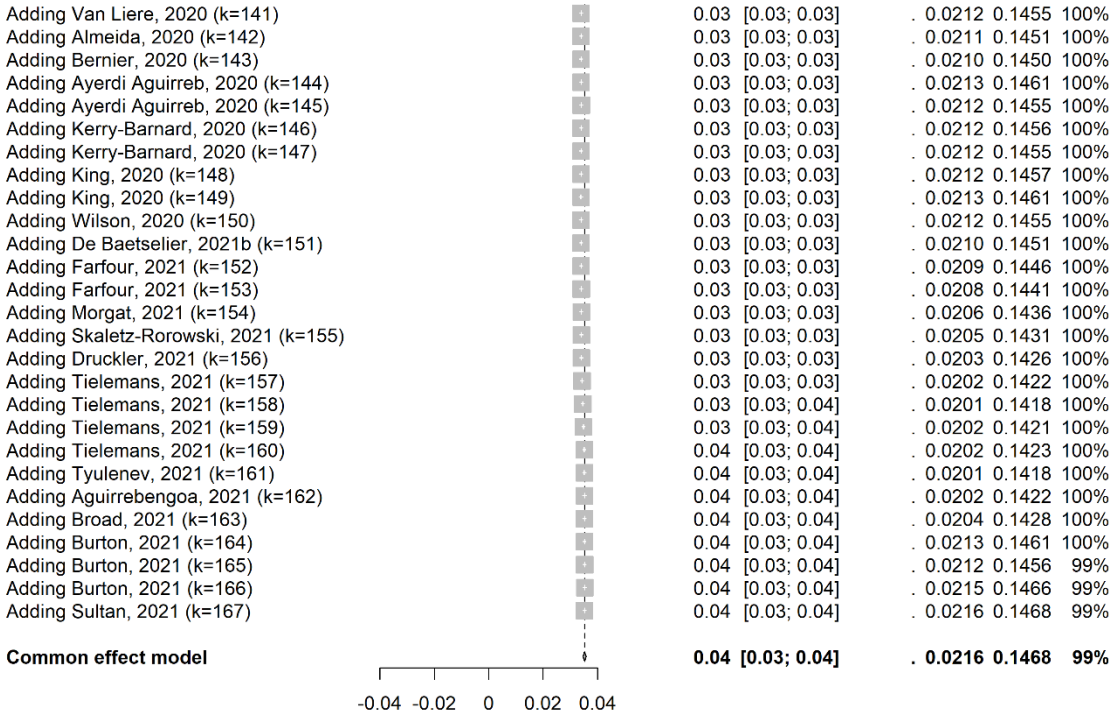

Adding Van Rooijen, 2018 (k=160) 0.02 [0.02; 0.02] . 0.0131 0.1143 98%
Adding Van Rooijen, 2018 (k=161) 0.02 [0.02; 0.02] . 0.0130 0.1140 98%
Adding Van Rooijen, 2018 (k=162) 0.02 [0.02; 0.02] . 0.0130 0.1139 98%
Adding Van Rooijen, 2018 (k=163) 0.02 [0.02; 0.03] . 0.0129 0.1135 99%
Adding Dona, 2018 (k=164) 0.02 [0.02; 0.03] . 0.0140 0.1185 99%
Adding Jeffery, 2018 (k=165) 0.02 [0.02; 0.03] . 0.0141 0.1188 99%
Adding Rahib, 2019 (k=166) 0.02 [0.02; 0.03] . 0.0140 0.1183 99%
Adding Storim, 2019 (k=167) 0.02 [0.02; 0.03] . 0.0140 0.1181 99%
Adding Ceccarani, 2019 (k=168) 0.02 [0.02; 0.03] . 0.0145 0.1206 99%
Adding Hoornenborg, 2019 (k=169) 0.02 [0.02; 0.03] . 0.0145 0.1205 99%
Adding Ribeiro, 2019 (k=170) 0.02 [0.02; 0.03] . 0.0144 0.1200 99%
Adding De Salazar, 2019 (k=171) 0.02 [0.02; 0.03] . 0.0143 0.1197 99%
Adding Fernandez-Huerta, 2019 (k=172) 0.02 [0.02; 0.03] . 0.0144 0.1200 99%
Adding Foronda-Garcia-Hidalgo, 2019 (k=173) 0.02 [0.02; 0.03] . 0.0145 0.1204 99%
Adding Cherkaoui, 2019 (k=174) 0.02 [0.02; 0.02] . 0.0146 0.1209 99%
Adding De Baetselier, 2020 (k=175) 0.02 [0.02; 0.02] . 0.0145 0.1205 99%
Adding Verougstraete, 2020 (k=176) 0.02 [0.02; 0.02] . 0.0145 0.1203 99%
Adding Peuchant, 2020 (k=177) 0.02 [0.02; 0.02] . 0.0146 0.1208 99%
Adding Peuchant, 2020 (k=178) 0.02 [0.02; 0.02] . 0.0147 0.1214 99%
Adding Jansen, 2020 (k=179) 0.02 [0.02; 0.03] . 0.0146 0.1209 99%
Adding Spornraft-Ragaller, 2020 (k=180) 0.02 [0.02; 0.03] . 0.0145 0.1206 99%
Adding Foschi, 2020 (k=181) 0.02 [0.02; 0.03] . 0.0144 0.1202 99%
Adding Achterbergh, 2020 (k=182) 0.02 [0.02; 0.03] . 0.0144 0.1199 99%
Adding Achterbergh, 2020 (k=183) 0.03 [0.02; 0.03] . 0.0143 0.1196 99%
Adding Druckler, 2020 (k=184) 0.03 [0.02; 0.03] . 0.0143 0.1195 99%
Adding Druckler, 2020 (k=185) 0.03 [0.02; 0.03] . 0.0143 0.1198 99%
Adding Druckler, 2020 (k=186) 0.02 [0.02; 0.03] . 0.0143 0.1197 99%
Adding Nijhuis, 2020 (k=187) 0.02 [0.02; 0.03] . 0.0143 0.1196 99%
Adding Nijhuis, 2020 (k=188) 0.02 [0.02; 0.03] . 0.0143 0.1195 99%
Adding Slurink, 2020 (k=189) 0.02 [0.02; 0.03] . 0.0142 0.1190 99%
Adding Slurink, 2020 (k=190) 0.03 [0.02; 0.03] . 0.0141 0.1187 99%
Adding Slurink, 2020 (k=191) 0.03 [0.02; 0.03] . 0.0140 0.1182 99%
Adding Slurink, 2020 (k=192) 0.03 [0.02; 0.03] . 0.0140 0.1183 99%
Adding Slurink, 2020 (k=193) 0.03 [0.03; 0.03] . 0.0139 0.1180 99%
Adding Slurink, 2020 (k=194) 0.03 [0.03; 0.03] . 0.0141 0.1187 99%
Adding Van Liere, 2020 (k=195) 0.04 [0.04; 0.04] . 0.0140 0.1184 99%
Adding Van Liere, 2020 (k=196) 0.04 [0.04; 0.04] . 0.0140 0.1183 99%
Adding Bernier, 2020 (k=197) 0.04 [0.04; 0.04] . 0.0140 0.1181 99%
Adding Ayerdi Aguirreb, 2020 (k=198) 0.04 [0.04; 0.04] . 0.0140 0.1184 99%
Adding Ayerdi Aguirreb, 2020 (k=199) 0.04 [0.04; 0.04] . 0.0140 0.1182 99%
Adding Cameron, 2020 (k=200) 0.04 [0.04; 0.04] . 0.0142 0.1190 99%
Adding King, 2020 (k=201) 0.04 [0.04; 0.04] . 0.0142 0.1190 99%
Adding King, 2020 (k=202) 0.04 [0.04; 0.04] . 0.0141 0.1188 99%
Adding Wilson, 2020 (k=203) 0.04 [0.04; 0.04] . 0.0140 0.1184 99%
Adding De Baetselier, 2021b (k=204) 0.04 [0.04; 0.04] . 0.0139 0.1181 99%
Adding Farfour, 2021 (k=205) 0.04 [0.04; 0.04] . 0.0139 0.1179 99%
Adding Farfour, 2021 (k=206) 0.04 [0.04; 0.04] . 0.0138 0.1175 99%
Adding Morgat, 2021 (k=207) 0.04 [0.04; 0.04] . 0.0138 0.1173 99%
Adding Skaletz-Rorowski, 2021 (k=208) 0.04 [0.04; 0.04] . 0.0137 0.1170 99%
Adding Marangoni, 2021 (k=209) 0.04 [0.04; 0.04] . 0.0138 0.1173 99%
Adding Marangoni, 2021 (k=210) 0.04 [0.04; 0.04] . 0.0141 0.1186 99%
Adding Marangoni, 2021 (k=211) 0.04 [0.04; 0.04] . 0.0142 0.1192 99%
Adding Marangoni, 2021 (k=212) 0.04 [0.04; 0.04] . 0.0148 0.1216 99%
Adding Marangoni, 2021 (k=213) 0.04 [0.04; 0.04] . 0.0149 0.1222 99%
Adding Druckler, 2021 (k=214) 0.04 [0.04; 0.04] . 0.0148 0.1219 99%
Adding Tielemans, 2021 (k=215) 0.04 [0.04; 0.04] . 0.0148 0.1216 99%
Adding Tielemans, 2021 (k=216) 0.04 [0.04; 0.04] . 0.0147 0.1213 99%
Adding Tielemans, 2021 (k=217) 0.04 [0.04; 0.04] . 0.0147 0.1210 99%
Adding Tielemans, 2021 (k=218) 0.04 [0.04; 0.04] . 0.0146 0.1208 99%
Adding Tyulenev, 2021 (k=219) 0.04 [0.04; 0.04] . 0.0145 0.1205 99%
Adding Aguirrebengoa, 2021 (k=220) 0.04 [0.04; 0.04] . 0.0148 0.1217 99%
Adding Andersson, 2021a (k=221) 0.04 [0.04; 0.04] . 0.0149 0.1220 99%
Adding Broad, 2021 (k=222) 0.04 [0.04; 0.04] . 0.0153 0.1236 99%
Adding Burton, 2021 (k=223) 0.04 [0.04; 0.04] . 0.0156 0.1247 99%
Adding Burton, 2021 (k=224) 0.04 [0.04; 0.04] . 0.0156 0.1247 99%
Adding Burton, 2021 (k=225) 0.04 [0.04; 0.04] . 0.0159 0.1263 99%
Adding Hatton, 2021 (k=226) 0.04 [0.04; 0.04] . 0.0164 0.1282 99%
Adding Hatton, 2021 (k=227) 0.04 [0.04; 0.04] . 0.0164 0.1280 99%
Adding Sultan, 2021 (k=228) 0.04 [0.04; 0.04] . 0.0165 0.1284 99%
Adding Trotman, 2021 (k=229) 0.04 [0.04; 0.04] . 0.0164 0.1281 99%
Common effect model 0.04 [0.04; 0.04] . 0.0164 0.1281 99%
-0.05
0
0.05

C. Oropharyngeal



Study	Proportion	95%-CI	P-value	Tau2	Tau	I2
Adding Robinson, 1974 (k=1)	0.02	[0.01; 0.03]	.	.	.	.
Adding Shahidullah, 1976 (k=2)	0.03	[0.02; 0.05]	.	0.0272	0.1649	95%
Adding Shahidullah, 1976 (k=3)	0.03	[0.02; 0.05]	.	0.0131	0.1146	91%
Adding Reimann, 1980 (k=4)	0.03	[0.02; 0.04]	.	0.0124	0.1112	88%
Adding Reimann, 1980 (k=5)	0.02	[0.02; 0.03]	.	0.0097	0.0987	85%
Adding Bovet, 1982 (k=6)	0.02	[0.01; 0.03]	.	0.0079	0.0889	82%
Adding Gonzalez, 1983 (k=7)	0.01	[0.00; 0.01]	.	0.0112	0.1059	93%
Adding Gonzalez, 1983 (k=8)	0.00	[0.00; 0.01]	.	0.0108	0.1042	93%
Adding Christophersen, 1988 (k=9)	0.00	[0.00; 0.01]	.	0.0094	0.0968	92%
Adding Christophersen, 1988 (k=10)	0.00	[0.00; 0.01]	.	0.0083	0.0909	91%
Adding Christophersen, 1988 (k=11)	0.00	[0.00; 0.01]	.	0.0080	0.0896	90%
Adding Stary, 1991 (k=12)	0.00	[0.00; 0.01]	.	0.0071	0.0844	89%
Adding Ross, 1991a (k=13)	0.01	[0.00; 0.01]	.	0.0064	0.0800	90%
Adding Ross, 1991a (k=14)	0.01	[0.01; 0.01]	.	0.0060	0.0772	90%
Adding Ross, 1991a (k=15)	0.01	[0.01; 0.01]	.	0.0056	0.0749	90%
Adding Ross, 1991a (k=16)	0.01	[0.01; 0.01]	.	0.0053	0.0727	90%
Adding Ross, 1991a (k=17)	0.01	[0.01; 0.01]	.	0.0048	0.0696	89%
Adding Ross, 1991a (k=18)	0.01	[0.01; 0.01]	.	0.0048	0.0690	89%
Adding Tomlinson, 1991 (k=19)	0.01	[0.01; 0.01]	.	0.0046	0.0679	89%
Adding Vlaspolder, 1993 (k=20)	0.01	[0.01; 0.01]	.	0.0044	0.0667	88%
Adding Vlaspolder, 1993 (k=21)	0.01	[0.01; 0.01]	.	0.0047	0.0686	88%
Adding Vlaspolder, 1993 (k=22)	0.01	[0.01; 0.01]	.	0.0045	0.0673	88%
Adding Vlaspolder, 1993 (k=23)	0.01	[0.01; 0.01]	.	0.0046	0.0677	87%
Adding Van der Snoek, 2004 (k=24)	0.01	[0.01; 0.01]	.	0.0046	0.0675	87%
Adding Van der Snoek, 2004 (k=25)	0.01	[0.01; 0.01]	.	0.0044	0.0663	86%
Adding Manavi, 2004 (k=26)	0.01	[0.00; 0.01]	.	0.0043	0.0659	86%
Adding Manavi, 2004 (k=27)	0.01	[0.01; 0.01]	.	0.0041	0.0641	86%
Adding Manavi, 2005 (k=28)	0.01	[0.01; 0.01]	.	0.0047	0.0685	86%
Adding Papadogeorgaki, 2006 (k=29)	0.01	[0.01; 0.01]	.	0.0051	0.0711	86%
Adding Heijman, 2007 (k=30)	0.00	[0.00; 0.01]	.	0.0049	0.0702	87%
Adding Benn, 2007 (k=31)	0.00	[0.00; 0.01]	.	0.0059	0.0769	88%
Adding Benn, 2007 (k=32)	0.00	[0.00; 0.01]	.	0.0061	0.0779	89%
Adding Benn, 2007 (k=33)	0.01	[0.00; 0.01]	.	0.0064	0.0799	89%
Adding Linhart, 2008 (k=34)	0.01	[0.00; 0.01]	.	0.0070	0.0835	91%
Adding Soni, 2008 (k=35)	0.01	[0.00; 0.01]	.	0.0068	0.0826	90%
Adding Soni, 2008 (k=36)	0.01	[0.00; 0.01]	.	0.0066	0.0812	90%
Adding Shipitsyna, 2009 (k=37)	0.01	[0.00; 0.01]	.	0.0067	0.0821	90%
Adding Annan, 2009 (k=38)	0.01	[0.01; 0.01]	.	0.0065	0.0808	90%
Adding Walsh, 2011b (k=39)	0.01	[0.01; 0.01]	.	0.0068	0.0825	90%
Adding Walsh, 2011b (k=40)	0.01	[0.01; 0.01]	.	0.0066	0.0812	90%
Adding Heiligenberg, 2011b (k=41)	0.01	[0.01; 0.01]	.	0.0064	0.0801	91%
Adding Heiligenberg, 2011b (k=42)	0.01	[0.01; 0.01]	.	0.0066	0.0810	91%
Adding Peters, 2011 (k=43)	0.01	[0.01; 0.01]	.	0.0064	0.0800	91%
Adding Peters, 2011 (k=44)	0.01	[0.01; 0.01]	.	0.0064	0.0797	91%
Adding Soni, 2011 (k=45)	0.01	[0.01; 0.01]	.	0.0062	0.0787	91%
Adding Bozicevic, 2012 (k=46)	0.01	[0.01; 0.01]	.	0.0060	0.0776	91%
Adding Skovgaard, 2012 (k=47)	0.01	[0.01; 0.01]	.	0.0059	0.0765	91%
Adding Skovgaard, 2012 (k=48)	0.01	[0.01; 0.01]	.	0.0058	0.0763	92%
Adding Heiligenberg, 2012 (k=49)	0.01	[0.01; 0.01]	.	0.0057	0.0753	92%
Adding Heiligenberg, 2012 (k=50)	0.01	[0.01; 0.01]	.	0.0055	0.0744	92%
Adding Koedijk, 2012 (k=51)	0.01	[0.01; 0.01]	.	0.0054	0.0738	92%
Adding Koedijk, 2012 (k=52)	0.02	[0.02; 0.02]	.	0.0053	0.0730	97%
Adding Reinton, 2013 (k=53)	0.02	[0.02; 0.02]	.	0.0052	0.0722	97%
Adding Jeverica, 2013 (k=54)	0.02	[0.02; 0.02]	.	0.0051	0.0713	97%
Adding Jeverica, 2013 (k=55)	0.02	[0.02; 0.02]	.	0.0050	0.0707	97%
Adding Jimenez, 2013 (k=56)	0.02	[0.02; 0.02]	.	0.0054	0.0731	97%
Adding Roberts, 2013 (k=57)	0.02	[0.02; 0.02]	.	0.0053	0.0730	97%
Adding Dudareva-Vizule, 2014 (k=58)	0.02	[0.02; 0.02]	.	0.0053	0.0730	97%
Adding Keaveney, 2014 (k=59)	0.02	[0.02; 0.02]	.	0.0054	0.0734	97%
Adding Keaveney, 2014 (k=60)	0.02	[0.02; 0.02]	.	0.0054	0.0735	97%
Adding De Vrieze, 2014 (k=61)	0.02	[0.02; 0.02]	.	0.0053	0.0728	97%
Adding De Vrieze, 2014 (k=62)	0.02	[0.02; 0.02]	.	0.0053	0.0729	97%
Adding Vahidnia, 2014 (k=63)	0.02	[0.02; 0.02]	.	0.0053	0.0727	97%
Adding Vahidnia, 2014 (k=64)	0.02	[0.02; 0.02]	.	0.0053	0.0725	97%
Adding Vahidnia, 2014 (k=65)	0.02	[0.02; 0.02]	.	0.0052	0.0723	96%
Adding Van Liere, 2014a (k=66)	0.02	[0.02; 0.02]	.	0.0051	0.0715	96%
Adding Van Liere, 2014a (k=67)	0.02	[0.02; 0.02]	.	0.0050	0.0707	96%
Adding Hagemann, 2014 (k=68)	0.02	[0.02; 0.02]	.	0.0050	0.0707	96%
Adding Perez-Hernandez, 2014 (k=69)	0.02	[0.02; 0.02]	.	0.0049	0.0701	96%
Adding Sprenger, 2014 (k=70)	0.02	[0.02; 0.02]	.	0.0049	0.0697	96%
Adding Sprenger, 2014 (k=71)	0.02	[0.02; 0.02]	.	0.0048	0.0693	96%
Adding Sprenger, 2014 (k=72)	0.02	[0.02; 0.02]	.	0.0048	0.0692	96%
Adding Dakshina, 2014 (k=73)	0.02	[0.02; 0.02]	.	0.0053	0.0731	96%
Adding Dakshina, 2014 (k=74)	0.02	[0.02; 0.02]	.	0.0058	0.0764	97%
Adding Fraser, 2014 (k=75)	0.02	[0.02; 0.02]	.	0.0058	0.0761	97%
Adding Plaas, 2015 (k=76)	0.02	[0.02; 0.02]	.	0.0063	0.0795	97%
Adding Marcus, 2015 (k=77)	0.02	[0.02; 0.02]	.	0.0063	0.0791	97%

Adding Spauwen, 2015 (k=78)	0.02	[0.02; 0.02]	.	0.0062	0.0786	97%
Adding Van Liere, 2015 (k=79)	0.02	[0.02; 0.02]	.	0.0222	0.1491	98%
Adding Van Rooijen, 2015 (k=80)	0.02	[0.02; 0.02]	.	0.0220	0.1482	98%
Adding Van Rooijen, 2015 (k=81)	0.02	[0.02; 0.02]	.	0.0219	0.1479	98%
Adding Van Rooijen, 2015 (k=82)	0.02	[0.02; 0.02]	.	0.0217	0.1472	98%
Adding Van Rooijen, 2015 (k=83)	0.02	[0.02; 0.02]	.	0.0215	0.1465	98%
Adding Verscheijden, 2015 (k=84)	0.02	[0.02; 0.02]	.	0.0213	0.1458	98%
Adding Verscheijden, 2015 (k=85)	0.02	[0.02; 0.02]	.	0.0210	0.1451	98%
Adding Verscheijden, 2015 (k=86)	0.02	[0.02; 0.02]	.	0.0208	0.1443	98%
Adding Verscheijden, 2015 (k=87)	0.02	[0.02; 0.02]	.	0.0206	0.1434	98%
Adding Verscheijden, 2015 (k=88)	0.02	[0.02; 0.02]	.	0.0203	0.1426	98%
Adding Verscheijden, 2015 (k=89)	0.02	[0.02; 0.02]	.	0.0201	0.1418	98%
Adding Lenart, 2015 (k=90)	0.02	[0.02; 0.02]	.	0.0200	0.1413	98%
Adding Lenart, 2015 (k=91)	0.02	[0.02; 0.02]	.	0.0198	0.1406	98%
Adding Lenart, 2015 (k=92)	0.02	[0.02; 0.02]	.	0.0196	0.1398	98%
Adding Garner, 2015 (k=93)	0.02	[0.02; 0.02]	.	0.0193	0.1391	98%
Adding Garner, 2015 (k=94)	0.02	[0.02; 0.02]	.	0.0192	0.1387	98%
Adding Garner, 2015 (k=95)	0.02	[0.02; 0.02]	.	0.0192	0.1385	98%
Adding Garner, 2015 (k=96)	0.02	[0.02; 0.02]	.	0.0191	0.1381	98%
Adding Garner, 2015 (k=97)	0.02	[0.02; 0.02]	.	0.0190	0.1378	98%
Adding Garner, 2015 (k=98)	0.02	[0.02; 0.02]	.	0.0189	0.1374	98%
Adding Thorsteinsson, 2016 (k=99)	0.02	[0.02; 0.02]	.	0.0189	0.1377	98%
Adding Jaureguy, 2016 (k=100)	0.02	[0.02; 0.02]	.	0.0188	0.1370	98%
Adding Sultan, 2016 (k=101)	0.02	[0.02; 0.02]	.	0.0190	0.1379	98%
Adding Edouard, 2017b (k=102)	0.02	[0.02; 0.02]	.	0.0189	0.1373	98%
Adding Fata, 2017 (k=103)	0.02	[0.02; 0.02]	.	0.0187	0.1366	98%
Adding Den Heijer, 2017 (k=104)	0.02	[0.02; 0.02]	.	0.0185	0.1359	98%
Adding Den Heijer, 2017 (k=105)	0.02	[0.02; 0.02]	.	0.0183	0.1353	98%
Adding Spinner, 2018 (k=106)	0.02	[0.02; 0.02]	.	0.0181	0.1346	98%
Adding Druckler, 2018 (k=107)	0.02	[0.02; 0.02]	.	0.0180	0.1341	98%
Adding Matser, 2018 (k=108)	0.02	[0.02; 0.02]	.	0.0178	0.1335	98%
Adding Van Rooijen, 2018 (k=109)	0.02	[0.02; 0.02]	.	0.0178	0.1332	98%
Adding Van Rooijen, 2018 (k=110)	0.02	[0.02; 0.02]	.	0.0176	0.1327	98%
Adding Van Rooijen, 2018 (k=111)	0.02	[0.02; 0.02]	.	0.0175	0.1323	98%
Adding Van Rooijen, 2018 (k=112)	0.02	[0.02; 0.03]	.	0.0173	0.1317	99%
Adding Dona, 2018 (k=113)	0.02	[0.02; 0.03]	.	0.0190	0.1379	99%
Adding Jeffery, 2018 (k=114)	0.02	[0.02; 0.03]	.	0.0190	0.1378	99%
Adding Rahib, 2019 (k=115)	0.02	[0.02; 0.03]	.	0.0189	0.1374	99%
Adding Hoornenborg, 2019 (k=116)	0.02	[0.02; 0.03]	.	0.0187	0.1368	99%
Adding Ribeiro, 2019 (k=117)	0.02	[0.02; 0.03]	.	0.0185	0.1362	99%
Adding De Salazar, 2019 (k=118)	0.02	[0.02; 0.03]	.	0.0184	0.1356	99%
Adding Cherkaoui, 2019 (k=119)	0.02	[0.02; 0.03]	.	0.0193	0.1390	99%
Adding De Baetselier, 2020 (k=120)	0.02	[0.02; 0.03]	.	0.0192	0.1386	99%
Adding Verougstraete, 2020 (k=121)	0.02	[0.02; 0.03]	.	0.0190	0.1380	99%
Adding Jansen, 2020 (k=122)	0.02	[0.02; 0.03]	.	0.0189	0.1373	99%
Adding Rich, 2020 (k=123)	0.02	[0.02; 0.03]	.	0.0187	0.1368	99%
Adding Rich, 2020 (k=124)	0.02	[0.02; 0.03]	.	0.0186	0.1362	99%
Adding Foschi, 2020 (k=125)	0.02	[0.02; 0.03]	.	0.0184	0.1358	99%
Adding Marangoni, 2020 (k=126)	0.02	[0.02; 0.03]	.	0.0198	0.1407	99%
Adding Achterbergh, 2020 (k=127)	0.03	[0.02; 0.03]	.	0.0196	0.1402	99%
Adding Achterbergh, 2020 (k=128)	0.03	[0.02; 0.03]	.	0.0195	0.1395	99%
Adding Druckler, 2020 (k=129)	0.03	[0.02; 0.03]	.	0.0193	0.1391	99%
Adding Druckler, 2020 (k=130)	0.03	[0.02; 0.03]	.	0.0193	0.1388	99%
Adding Druckler, 2020 (k=131)	0.03	[0.02; 0.03]	.	0.0192	0.1384	99%
Adding Druckler, 2020 (k=132)	0.03	[0.02; 0.03]	.	0.0190	0.1379	99%
Adding Nijhuis, 2020 (k=133)	0.03	[0.02; 0.03]	.	0.0189	0.1375	99%
Adding Nijhuis, 2020 (k=134)	0.02	[0.02; 0.03]	.	0.0188	0.1373	99%
Adding Slurink, 2020 (k=135)	0.03	[0.02; 0.03]	.	0.0187	0.1367	98%
Adding Slurink, 2020 (k=136)	0.03	[0.02; 0.03]	.	0.0185	0.1361	98%
Adding Slurink, 2020 (k=137)	0.03	[0.02; 0.03]	.	0.0184	0.1355	98%
Adding Slurink, 2020 (k=138)	0.03	[0.02; 0.03]	.	0.0182	0.1350	98%
Adding Slurink, 2020 (k=139)	0.03	[0.03; 0.03]	.	0.0181	0.1345	98%
Adding Slurink, 2020 (k=140)	0.03	[0.03; 0.03]	.	0.0181	0.1344	98%


Adding Van Liere, 2020 (k=141) 0.03 [0.03; 0.03] . 0.0212 0.1455 100%
Adding Almeida, 2020 (k=142) 0.03 [0.03; 0.03] . 0.0211 0.1451 100%
Adding Bernier, 2020 (k=143) 0.03 [0.03; 0.03] . 0.0210 0.1450 100%
Adding Ayerdi Aguirreb, 2020 (k=144) 0.03 [0.03; 0.03] . 0.0213 0.1461 100%
Adding Ayerdi Aguirreb, 2020 (k=145) 0.03 [0.03; 0.03] . 0.0212 0.1455 100%
Adding Kerry-Barnard, 2020 (k=146) 0.03 [0.03; 0.03] . 0.0212 0.1456 100%
Adding Kerry-Barnard, 2020 (k=147) 0.03 [0.03; 0.03] . 0.0212 0.1455 100%
Adding King, 2020 (k=148) 0.03 [0.03; 0.03] . 0.0212 0.1457 100%
Adding King, 2020 (k=149) 0.03 [0.03; 0.03] . 0.0213 0.1461 100%
Adding Wilson, 2020 (k=150) 0.03 [0.03; 0.03] . 0.0212 0.1455 100%
Adding De Baetselier, 2021b (k=151) 0.03 [0.03; 0.03] . 0.0210 0.1451 100%
Adding Farfour, 2021 (k=152) 0.03 [0.03; 0.03] . 0.0209 0.1446 100%
Adding Farfour, 2021 (k=153) 0.03 [0.03; 0.03] . 0.0208 0.1441 100%
Adding Morgat, 2021 (k=154) 0.03 [0.03; 0.03] . 0.0206 0.1436 100%
Adding Skaletz-Rorowski, 2021 (k=155) 0.03 [0.03; 0.03] . 0.0205 0.1431 100%
Adding Druckler, 2021 (k=156) 0.03 [0.03; 0.03] . 0.0203 0.1426 100%
Adding Tielemans, 2021 (k=157) 0.03 [0.03; 0.03] . 0.0202 0.1422 100%
Adding Tielemans, 2021 (k=158) 0.03 [0.03; 0.04] . 0.0201 0.1418 100%
Adding Tielemans, 2021 (k=159) 0.03 [0.03; 0.04] . 0.0202 0.1421 100%
Adding Tielemans, 2021 (k=160) 0.04 [0.03; 0.04] . 0.0202 0.1423 100%
Adding Tyulenev, 2021 (k=161) 0.04 [0.03; 0.04] . 0.0201 0.1418 100%
Adding Aguirrebengoa, 2021 (k=162) 0.04 [0.03; 0.04] . 0.0202 0.1422 100%
Adding Broad, 2021 (k=163) 0.04 [0.03; 0.04] . 0.0204 0.1428 100%
Adding Burton, 2021 (k=164) 0.04 [0.03; 0.04] . 0.0213 0.1461 100%
Adding Burton, 2021 (k=165) 0.04 [0.03; 0.04] . 0.0212 0.1456 99%
Adding Burton, 2021 (k=166) 0.04 [0.03; 0.04] . 0.0215 0.1466 99%
Adding Sultan, 2021 (k=167) 0.04 [0.03; 0.04] . 0.0216 0.1468 99%
Common effect model 0.04 [0.03; 0.04] . 0.0216 0.1468 99%
-0.04 -0.02 0 0.02 0.04

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