

Appendix 1: Full search strategies

MEDLINE ALL (Ovid)

Ovid MEDLINE(R) ALL <1946 to August 24, 2022>

1 exp tuberculosis/ or mycobacterium tuberculosis/ 225118
2 (tuberculo* or tb).mp,bt,cl. 301582
3 or/1-2 301984
4 exp Tuberculin Test/ 14176
5 exp Interferon-gamma Release tests/ 1855
6 (mantoux or ((ppd or tb or tuberculin) adj (reaction or skin test* or survey* or test*)) or
purified protein derivative* or tst).mp,bt,cl. 24176
7 ((IFN or Interferon) adj2 release adj (assay* or test*)).mp,bt,cl. 3349
8 igra?.mp,bt,cl. 1713
9 (qft or quantiferon*).mp,bt,cl. 2380
10 (tspot or t spot).mp,bt,cl. 309
11 or/4-10 26728
12 3 and 11 16339
13 latent tuberculosis/ 3641
14 ((laten* adj5 (tb or tuberculo*)) or ltbi).mp,bt,cl. 8151
15 or/12-14 21002
16 clinical study/ or exp clinical trial/ or clinical trial protocol/ or comparative study.pt. or
observational study/ or comparative study/ or multicenter study/ or exp case-control studies/ or exp
cohort studies/ 4848534
17 exp risk/ or incidence/ or odds ratio/ or prevalence/ or disease progression/ 1914592
18 (group* or population* or subgroup*).mp,bt,cl. 6244416
19 (case control or cohort or experimental or follow up or followup or longitudinal or
nonrandom* or observational* or prospective* or random* or rct or retrospective* or
trial?).mp,bt,cl. 7201095
20 (inciden* or odds ratio? or outcome* or prevalen* or progression or rate or reactivat* or
risk).mp,bt,cl. or compar*.ti,kf,bt,cl. 8915580
21 16 or 17 or 18 or 19 or 20 15269815
22 3 and 11 and 2110461
23 22 not (case reports or editorial).pt. 9744
24 23 not (exp animals/ not humans.sh.) 8877
8,877 records on August 25, 2022

Embase 1947 - (Ovid)

Embase Classic+Embase <1947 to 2022 August 25>

1 exp *tuberculosis/ or *mycobacterium tuberculosis/ 208724
2 (tuberculo* or tb).ti,ab,kf. 332117
3 1 or 2 353460
4 tuberculin test/ 28065
5 Interferon-gamma Release Assay/ 4530
6 (mantoux or ((ppd or tb or tuberculin) adj (reaction or skin test* or survey* or test*)) or
purified protein derivative* or tst).mp. 42099
7 ((IFN or Interferon) adj2 release adj (assay* or test*)).mp. 5862
8 igra?.mp. 2909
9 (qft or quantiferon*).mp. 5373

10 (tspot or t spot).mp. 875
 11 or/4-10 47486
 12 3 and 11 28860
 13 latent tuberculosis/ 7255
 14 ((laten* adj5 (tb or tuberculo*)) or ltbi).mp. 12629
 15 or/12-14 35382
 16 clinical study/ or exp case control study/ or exp clinical trial/ or exp longitudinal study/ or
 major clinical study/ or prospective study/ or retrospective study/ or cohort analysis/ 7096762
 17 exp risk/ or exp incidence/ or odds ratio/ or exp prevalence/ or virus reactivation/
 3906361
 18 (group* or population* or subgroup*).mp. 8853614
 19 (case control or cohort or experimental or follow up or followup or longitudinal or
 nonrandom* or observational* or prospective* or random* or rct or retrospective* or trial?).mp.
 9802772
 20 (inciden* or odds ratio? or outcome* or prevalen* or progression or rate or reactivat* or
 risk).ti,ab,kf. or compar*.ti,kf. 11008741
 21 or/16-20 20246510
 22 15 and 21 24675
 23 22 not (case report/ or exp case study/ or editorial.pt.) 21863
 24 23 not (mathematical model* or economic evaluation* or economic analysis or case report
 or case series or case study or qualitative study).ti. 21763
 25 24 not ((exp animal/ or animal experiment/ or nonhuman/) not (exp human/ or human
 experiment/)) 20222
 20,222 records on August 26, 2022

Global Health 1973 - (Ovid)

Global Health <1973 to 2022 Week 33>

1 exp tuberculosis/ or mycobacterium tuberculosis/ 63566
 2 (tuberculo* or tb).mp. 74347
 3 or/1-2 74347
 4 tuberculin/ 2714
 5 (mantoux or ((ppd or tb or tuberculin) adj (reaction or skin test* or survey* or test*)) or
 purified protein derivative* or tst).mp. 5411
 6 ((IFN or Interferon) adj2 release adj (assay* or test*)).mp. 1597
 7 igma?.mp. 1064
 8 (qft or quantiferon*).mp. 1471
 9 (tspot or t spot).mp. 305
 10 or/4-9 7668
 11 3 and 10 5901
 12 ((laten* adj5 (tb or tuberculo*)) or ltbi).mp. 4165
 13 11 or 12 8014
 14 risk/ or risk assessment/ or risk factors/ or exp risk groups/ 418475
 15 (group* or population* or subgroup*).mp. 1239564
 16 case-control studies/ or exp clinical trials/ or "controls (experimental)"/ or experimental
 design/ or exp longitudinal studies/ 214517
 17 (case control or cohort or experimental or follow up or followup or longitudinal or
 nonrandom* or observational* or prospective* or random* or rct or retrospective* or trial?).mp.
 926975
 18 exp incidence/ 115282

19 (inciden* or odds ratio? or outcome* or prevalen* or progression or rate or reactivat* or risk).mp. or compar*.ti. 1593890
20 or/14-19 2368154
21 13 and 20 6685
22 21 not (editorial.pt. or (mathematical model* or economic evaluation* or economic analysis or case report or case series or case study or qualitative study).ti.) 6623
6,623 records on August 26, 2022

Web of Science Core Collection

((TS=(tuberculo* OR tb) AND (TS=(mantoux OR ((ppd OR tb OR tuberculin) NEAR/1 (reaction OR "skin test*" OR survey* OR test*)) OR "purified protein derivative*" OR tst) OR TS=((IFN NEAR/2 ("release assay*" OR test*)) OR (Interferon NEAR/2 ("release assay*" OR test*))) OR TS=(igra*) OR TS=(qft OR quantiferon*) OR TS=(tspot OR "t spot"))) OR TS=((laten* NEAR/5 (tb OR tuberculo*)) OR Itbi)) AND (TS= (group* OR population* OR subgroup*) OR TS=("case control" OR cohort OR experimental OR "follow up" OR followup OR longitudinal OR nonrandom* OR observational* OR prospective* OR random* OR rct OR retrospective* OR trial*) OR TS=(inciden* OR "odds ratio*" OR outcome* OR prevalen* OR progression OR rate OR reactivat* OR risk) OR TI=(compar*)) NOT TI=("mathematical model*" OR "economic evaluation*" OR "economic analysis" OR "case report" OR "case series" OR "case study" OR "qualitative study")
12,327 records on August 25, 2022

CENTRAL (Cochrane Library)

((tuberculo* OR tb):ti,ab,kw AND ((mantoux OR ((ppd OR tb OR tuberculin) NEAR/1 (reaction OR skin next test* OR survey* OR test*)) OR purified next protein next derivative* OR tst):ti,ab,kw OR ((IFN NEAR/2 (release next assay* OR test*)) OR (Interferon NEAR/2 (release next assay* OR test*)):ti,ab,kw OR (igra*):ti,ab,kw OR (qft OR quantiferon*):ti,ab,kw OR (tspot OR "t spot"):ti,ab,kw)) OR ((laten* NEAR/5 (tb OR tuberculo*)) OR Itbi):ti,ab,kw)
Limit: Trials
1,036 records on August 26, 2022

Clinialtrials.gov

Condition or disease: tuberculosis OR tb OR Itbi
Other terms: (latent OR incidence OR "odds ratio" OR outcomes OR prevalence OR progression OR rate OR reactivation OR risk OR "general population" OR factors OR screening)
1,054 records on August 31, 2022 with the correction of the Boolean operator in the "condition or disease" line

International Clinical Trials Registry Platform (WHO) <https://trialssearch.who.int/>

Condition: tuberculosis OR tb OR Itbi
Intervention: latent OR incidence OR odds ratio OR outcomes OR prevalence OR progression OR rate OR reactivation OR risk OR general population OR factors OR screening
Status: All
71 records on August 26, 2022

Europe PMC

((tuberculo* OR tb OR Itbi) AND ((mantoux OR ((ppd OR tb OR tuberculin) AND (reaction OR survey* OR test*)) OR ("purified protein" AND derivative*) OR tst) OR ((IFN AND ((release AND assay*) OR

test*)) OR (Interferon AND ((release AND assay*) OR test*)) OR (igra*) OR (qft OR quantiferon*) OR (tspot OR "t spot")) OR ((laten* AND (tb OR tuberculo*)) OR Itbi)) AND ((group* OR population* OR subgroup*) OR ("case control" OR cohort OR experimental OR "follow up" OR followup OR longitudinal OR nonrandom* OR observational* OR prospective* OR random* OR rct OR retrospective* OR trial*) OR (inciden* OR "odds ratio" OR "odds ratios" OR outcome* OR prevalen* OR progression OR rate OR reactivat* OR risk)) AND (SRC:PPR) NOT TITLE:("mathematical model" OR "mathematical models" OR "economic evaluation" OR "economic evaluations" OR "economic analysis" OR "case report" OR "case series" OR "case study" OR "qualitative study")
1,940 records on August 31, 2022