**Supplementary material 1** Search strategies and restrictions

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| --- | --- | --- |
| Database | Limitation | Search formula\* |
| PubMed\* | All files | ("Brucella suis"[Mesh] OR Brucella melitensis biovar suis) AND ("Swine"[MeSH] OR Suidae OR Pigs OR Warthogs OR Wart Hogs OR Hog, Wart OR Hogs, Wart OR Wart Hog OR Phacochoerus) |
| Springer-Link | All files | “Brucella suis” and “pigs” |
| ScienceDirect | Keywords | “Brucella suis”, “swine”, “pig”, and “prevalence” |
| Web of Science | Keywords & Searched for the TOPIC | “Brucella suis”, “Swine”, and “prevalence” |
| CNKI | Advanced Search & Subject term & Fuzzy retrieval and synonym extension | “Brucella” (Chinese) or “Brucella spp.” (Chinese) or “Brucellosis” (Chinese) |
| Chongqing VIP | Advanced Search & Title or keyword & Fuzzy retrieval and synonym extension | “Brucella” (in Chinese) or “Brucellosis” (in Chinese) and “pigs” (in Chinese).” |
| WanFang | Papers in journals, degree theses, and conferences. Advanced Search & Title or keyword & Fuzzy retrieval and synonym extension | “Brucella” (in Chinese) and “pigs” (in Chinese), or Brucella spp. (in Chinese) and “pigs” (in Chinese), or “Brucellosis” (in Chinese) and “pigs” (in Chinese) |

\* The different search strategy was used because different databases have different retrieval logic.

In PubMed, we searched for Medical Subject Headings (MeSH terms; “Brucella suis” and “Swine”) and their entry terms (“Brucella melitensis biovar suis”, “Suidae”, “Pigs”, “Warthogs”, “Wart Hogs”, “Hog, Wart”, “Hogs, Wart”, “Wart Hog”, and “Phacochoerus”) for pigs and swine brucellosis from the “MeSH” option of PubMed. We used the Boolean operator “AND” to connect MeSH terms and “OR” to connect the entry terms. The MeSH terms and their entry terms were respectively combined with “OR” to obtain the search formulas A and B:

|  |
| --- |
| Search formula A: |
| ("Brucella suis"[Mesh] OR Brucella melitensis biovar suis) |
| Search formula B: |
| ("Swine"[MeSH] OR Suidae OR Pigs OR Warthogs OR Wart Hogs OR Hog, Wart OR Hogs, Wart OR Wart Hog OR Phacochoerus) |

Then the search formulas A and B were combined with “AND”, so the final search formula was presented as followed:

("Brucella suis"[Mesh] OR Brucella melitensis biovar suis) AND ("Swine"[MeSH] OR Suidae OR Pigs OR Warthogs OR Wart Hogs OR Hog, Wart OR Hogs, Wart OR Wart Hog OR Phacochoerus).

**Supplementary material 2** Items on the PRISMA checklist

|  |  |  |  |
| --- | --- | --- | --- |
| **Section/topic** | **#** | **Checklist item** | **Reported on page #** |
| **TITLE** |  |
| Title | 1 | Global comprehensive literature review and meta-analysis of *Brucella* spp. in swine based on publications from 2000- 2020 | 1 |
| **ABSTRACT** |  |
| Structured summary | 2 | Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number. | 1-2 |
| **INTRODUCTION** |  |
| Rationale | 3 | Describe the rationale for the review in the context of what is already known. | 3 |
| Objectives | 4 | Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS). | 3 |
| **METHODS** |  |
| Protocol and registration | 5 | Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number. | 4-5 |
| Eligibility criteria | 6 | Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale. | 4-5 |
| Information sources | 7 | Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched. | 4-5 |
| Search | 8 | Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated. | 4-5 |
| Study selection | 9 | State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis). | 4-5 |
| Data collection process | 10 | Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators. | 4-5 |
| Data items | 11 | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made. | 4-5 |
| Risk of bias in individual studies | 12 | Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis. | 4-5 |
| Summary measures | 13 | State the principal summary measures (e.g., risk ratio, difference in means). | 4-5 |
| Synthesis of results | 14 | Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I2) for each meta-analysis. | 4-5 |
| Risk of bias across studies | 15 | Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies). | 4-5 |
| Additional analyses | 16 | Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified. | 4-5 |
| **RESULTS** |  |  |  |
| Study selection | 17 | Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram. | 5-6, Figure 1 |
| Study characteristics | 18 | For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations. | 5-6, Tables S2 and S3 |
| Risk of bias within studies | 19 | Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12). | 5-6, Figures 2 and 3, Figures S1-S12 and Tables S2 and S3 |
| Results of individual studies | 20 | For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot. | 5-6, Figure 2 |
| Synthesis of results | 21 | Present results of each meta-analysis done, including confidence intervals and measures of consistency. | 5-6, Figure 2, Tables 2 and 3 |
| Risk of bias across studies | 22 | Present results of any assessment of risk of bias across studies (see Item 15). | 5-6, Tables 2 and 3, Table S2 and S3, Figures S1-S12 |
| Additional analysis | 23 | Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]). | 5-6, Tables 2 and 3, Figure 4 |
| **DISCUSSION** |  |  |  |
| Summary of evidence | 24 | Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers). | 6-9 |
| Limitations | 25 | Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias). | 9 |
| Conclusions | 26 | Provide a general interpretation of the results in the context of other evidence, and implications for future research. | 10 |
| **FUNDING** |  |  |  |
| Funding | 27 | Describe sources of funding for the systematic review and other support (e.g., supply of data); role of founders for the systematic review. | 10 |

*From:* Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(6): e1000097. doi:10.1371/journal.pmed1000097

For more information, visit: **www.prisma-statement.org**.

**Supplementary material 3** The code in R for this meta-analysis

|  |  |
| --- | --- |
| Logarithmic conversion (PNL) | rate<-transform [m1, log=log(event/n)];  shapiro.test(rate$log) |
| Logit transformation (PLOGIT) | rate<-transform{m1, logit=log[(event/n)/(1-event/n)]};  shapiro.test(rate$logit) |
| Arcsine transformation (PAS) | rate<-transform{m1, arcsin.size=asin[sqrt(event/(n+1))]};  shapiro.test(rate$arcsin) |
| Double-arcsine transformation (PFT) | rate<-transform{m1,darcsin=0.5\*[asin(sqrt(event/(n+1)))+asin((sqrt(event+1)/(n+1)))]};  shapiro.test(rate$darcsin) |
| No transformation (PRAW) | rate<-transform[m1, r= event/n];  shapiro.test(rate$r) |

|  |  |
| --- | --- |
| Forest plots | forest [meta1, xlim=c(-0.2, 0.8)] |
| Funnel chart | funnel (meta1) |
| Egger's test | metabias (meta1, method="linreg") |
| The sensitivity analysis | metainf (meta1, pooled = "random") forest (metainf (meta1, pooled = "random"), xlim=c(0, 0.3)) |
| Subgroup analysis | meta1<-metaprop(event, n, study, data=rate, sm="PLN", incr=0.5, allincr=TRUE, addincr=FALSE, title="", byvar= subgroup title, print.byvar=TRUE) |
| Meta-regression analysis | metareg (meta1, ~covariate title) |

**Supplementary material 4** Studies included in the meta-analysis

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study ID | Sampling time | Income level | Country | Detection methods | Positive samples/  total samples | Quality score | Quality level | |
| **Africa** |  |  |  |  |  |  | |  |
| Erume et al. (2016) | 2012.12-2013.7 | Low | Uganda | ELISA | 2/1665 | 5 | | High |
| Kristina et al. (2016) | 2012.12-2013.7 | Low | Uganda | Others | 1/1665 | 3 | | Middle |
| Khan et al. (2019) | 2017.03-2019.07 | Middle | Egypt | ELISA | 36/331 | 4 | | High |
| **America** |  |  |  |  |  |  | |  |
| Stoffregen et al. (2007) | 2002.10-2003.02 | High | USA | Others | 39/80 | 5 | | High |
| Corn et al. (2009) | 2006-2007 | High | USA | Others | 7/170 | 5 | | High |
| Meirelles-Bartoli et al. (2012) | 2006.07 | Middle | Brazil | RBPT | 254/271 | 3 | | Middle |
| Sandfoss et al. (2012) | 2007.09-2010.03 | High | USA | Others | 10/513 | 4 | | High |
| Musser et al. (2013) | 2005.4 | High | USA | Others | 4/40 | 3 | | Middle |
| Christopher et al. (2017) | 2015.02-2015.03 | High | USA | CFT | 1/47 | 4 | | High |
| He et al. (2017) | 2013.03 | High | USA | RBPT | 0/978 | 3 | | Middle |
| Pedersen et al. (2017) | 2015 | High | USA | Others | 49/376 | 4 | | High |
| Lama et al. (2018) | 2015.03-2016.08 | High | USA | PCR | 18/95 | 4 | | High |
| **Asia** |  |  |  |  |  |  | |  |
| He et al. (2000) | aUN | Middle | China | RBPT | 33/340 | 2 | | Middle |
| Pan et al. (2000) | 1992-1999 | Middle | China | RBPT | 3/3155 | 3 | | High |
| Li et al. (2001) | 1998-1999 | Middle | China | TAT | 34/325 | 3 | | High |
| Chen et al. (2001a) | 2000 | Middle | China | RBPT | 3/897 | 3 | | High |
| Chen et al. (2001b) | 1998-1999 | Middle | China | Others | 4/30 | 3 | | High |
| Gao et al. (2001) | 2000 | Middle | China | RBPT | 99/1113 | 4 | | High |
| Lu et al. (2002) | UN | Middle | China | RBPT | 46/30740 | 2 | | Middle |
| Cao et al. (2002) | UN | Middle | China | RBPT | 0/456 | 2 | | Middle |
| Li et al. (2002) | UN | Middle | China | Others | 0/486 | 2 | | Middle |
| Yang et al. (2002a) | 2000 | Middle | China | RBPT/TAT | 16/1732 | 4 | | High |
| Yang et al. (2002b) | 2001 | Middle | China | RBPT/TAT | 1/600 | 3 | | High |
| Ma et al. (2002) | 2001 | Middle | China | RBPT/TAT | 41/849 | 3 | | High |
| Liu (2003) | 2001-2002 | Middle | China | RBPT/TAT | 0/193 | 3 | | High |
| Liu et al. (2003) | 2000-2002 | Middle | China | RBPT | 0/30933 | 4 | | High |
| Cao et al. (2003) | UN | Middle | China | RBPT | 2/98 | 3 | | High |
| Li et al. (2003) | 2001 | Middle | China | TAT | 4/741 | 3 | | High |
| Yang et al. (2003a) | 1999-2001 | Middle | China | TAT | 0/300 | 3 | | High |
| Yang et al. (2003b) | 2002 | Middle | China | RBPT | 0/36 | 3 | | High |
| Wei et al. (2003) | 2002 | Middle | China | Others | 28/788 | 4 | | High |
| He et al. (2004) | 2004 | Middle | China | RBPT | 0/526 | 3 | | High |
| Zhu et al. (2004) | 2000-2002 | Middle | China | RBPT/TAT | 3/1543 | 3 | | High |
| Wang (2004) | 2003 | Middle | China | TAT | 0/120 | 3 | | High |
| Suo et al. (2004) | 2002 | Middle | China | TAT | 0/106 | 3 | | High |
| Jiang et al. (2004) | 2002.07-08 | Middle | China | RBPT | 1/123 | 3 | | High |
| Gao et al. (2004) | 2000-2003 | Middle | China | RBPT | 0/1200 | 4 | | High |
| Xu et al. (2004) | 2000-2003 | Middle | China | Others | 0/2595 | 3 | | High |
| Zhang (2006) | 1989-1995 | Middle | China | RBPT/TAT | 0/2242 | 3 | | High |
| Zhang et al. (2006) | 2005 | Middle | China | RBPT | 0/989 | 3 | | High |
| Miao et al. (2006) | 2003-2005 | Middle | China | RBPT/TAT | 0/32941 | 4 | | High |
| Chen et al. (2006) | 2005-2006 | Middle | China | RBPT | 0/941 | 3 | | High |
| Xu et al. (2007) | 1983-2004 | Middle | China | UN | 0/37329 | 2 | | Middle |
| Wang (2007) | 2004.12.21-2006.12.20 | Middle | China | RBPT | 0/1257 | 3 | | High |
| Zhong et al. (2007) | UN | Middle | China | TAT | 1/141 | 2 | | Middle |
| Zhang et al. (2008) | 2001-2007 | Middle | China | RBPT | 0/10260 | 4 | | High |
| Wen et al. (2008) | 2006.12.11 | Middle | China | RBPT | 0/119 | 3 | | High |
| Xiao (2008) | 2000-2007 | Middle | China | RBPT | 203/11324 | 4 | | High |
| Yuan et al. (2008) | 2006.5-2007.7 | Middle | China | UN | 1/980 | 3 | | High |
| Luo et al. (2009) | 2007 | Middle | China | RBPT/TAT | 3/720 | 3 | | High |
| Chen (2009) | 2006-2008 | Middle | China | RBPT | 0/4083 | 3 | | High |
| Yu (2010) | 1995-2008 | Middle | China | RBPT/TAT | 0/2056 | 3 | | High |
| Cao et al. (2010) | 2005-2008 | Middle | China | RBPT/TAT | 2/803 | 3 | | High |
| Zhou (2011) | 2001-2004 | Middle | China | RBPT/TAT | 24/274 | 3 | | High |
| Zhou et al. (2011) | 2009.2-2010.12 | Middle | China | RBPT | 0/404 | 2 | | Middle |
| Ha et al. (2011) | 2011.04-06 | Middle | China | RBPT | 0/41 | 3 | | High |
| Zhang et al. (2011) | UN | Middle | China | Others | 0/100 | 2 | | Middle |
| Li et al. (2011) | 1996-2010 | Middle | China | RBPT/TAT | 27/25069 | 4 | | High |
| Yang et al. (2011) | UN | Middle | China | RBPT | 14/302 | 2 | | Middle |
| Wang et al. (2011) | 2003-2009 | Middle | China | RBPT/TAT | 0/102 | 4 | | High |
| Xu (2011) | 2004-2009 | Middle | China | RBPT/TAT | 0/3990 | 3 | | High |
| Guo et al. (2011) | 2006-2010 | Middle | China | RBPT/TAT | 0/296 | 3 | | High |
| Huang et al. (2011) | 2006-2010 | Middle | China | RBPT | 38/1734 | 3 | | High |
| Li et al. (2012) | 2009-2011 | Middle | China | RBPT | 1/10123 | 3 | | High |
| Li (2012a) | 1990-2012 | Middle | China | RBPT | 2/3810 | 4 | | High |
| Li (2012b) | UN | Middle | China | RBPT | 0/200 | 2 | | Middle |
| Gong et al. (2012) | 2008-2011 | Middle | China | RBPT | 0/700 | 4 | | High |
| Wang et al. (2012) | 2000 | Middle | China | RBPT | 29/1187 | 3 | | High |
| Wu et al. (2012) | UN | Middle | China | Others | 37/831 | 2 | | Middle |
| Liu et al. (2012) | UN | Middle | China | RBPT | 4/800 | 2 | | Middle |
| Zuo et al. (2013) | 2008-2012 | Middle | China | RBPT | 0/6158 | 2 | | Middle |
| Zhang (2013) | 2011-2013 | Middle | China | RBPT | 28/564 | 3 | | High |
| Wang et al. (2013) | 1980-2011 | Middle | China | RBPT | 300/22148 | 4 | | High |
| Tao et al. (2013) | 2011 | Middle | China | RBPT | 0/200 | 3 | | High |
| He (2014) | 2012-2013 | Middle | China | RBPT | 0/2280 | 4 | | High |
| Liu et al. (2014) | 2013.1 | Middle | China | TAT | 1/1197 | 3 | | High |
| Lu et al. (2014) | 2009-2013 | Middle | China | RBPT/TAT | 0/2773 | 2 | | Middle |
| You et al. (2014) | 2011-2013 | Middle | China | RBPT | 1/2668 | 3 | | High |
| Wang (2014) | 2013 | Middle | China | RBPT/TAT | 1/901 | 3 | | High |
| Qin (2014) | 2013.01-2013.12 | Middle | China | RBPT | 5/100 | 4 | | High |
| Xie et al. (2014) | 2013.01-2014.03 | Middle | China | RBPT | 0/2217 | 3 | | High |
| Song et al. (2015) | 2014 | Middle | China | RBPT/TAT | 37/675 | 3 | | High |
| Ying. (2015) | 2014.04-2014.09 | Middle | China | RBPT/TAT | 0/1150 | 3 | | High |
| Qin et al. (2015) | 2012-2014 | Middle | China | RBPT | 0/548 | 4 | | High |
| Pu et al. (2015) | 2014 | Middle | China | RBPT/TAT | 0/433 | 3 | | High |
| Kang et al. (2015) | 2014-2015 | Middle | China | RBPT | 0/303 | 4 | | High |
| Zhang et al. (2016) | 2012-2013 | Middle | China | RBPT | 2/1131 | 3 | | High |
| Yang et al. (2016) | 2014.04-2015.04 | Middle | China | RBPT | 0/550 | 3 | | High |
| Tao et al. (2016) | 2015 | Middle | China | TAT | 2/1629 | 3 | | High |
| Liu et al. (2017) | 2016.03-2016.05 | Middle | China | ELISA | 10/600 | 4 | | High |
| Huang et al. (2017) | UN | Middle | China | TAT | 0/154 | 3 | | High |
| Jia et al. (2017) | 2012 | Middle | China | RBPT | 19/1639 | 4 | | High |
| Tao et al. (2017) | 2016 | Middle | China | RBPT | 0/1636 | 3 | | High |
| Wei et al. (2017) | 2012 | Middle | China | RBPT | 18/3343 | 3 | | High |
| Xu et al. (2017) | 2015-2016 | Middle | China | RBPT/TAT | 0/1490 | 4 | | High |
| Zhou (2017) | 2016 | Middle | China | RBPT | 0/30 | 4 | | High |
| Bao et al. (2018) | 2015-2017 | Middle | China | RBPT/TAT | 0/4170 | 3 | | High |
| Chen et al. (2018) | 2012-2016 | Middle | China | RBPT/TAT | 7/20221 | 3 | | High |
| Li et al. (2019a) | 2018.08-2018.11 | Middle | China | RBPT | 0/751 | 3 | | High |
| Li et al. (2019b) | UN | Middle | China | RBPT/ELISA | 18/287 | 3 | | High |
| Shome et al. (2019) | UN | Middle | India | Others | 236/575 | 3 | | Middle |
| Lv et al. (2020) | 2016-2018 | Middle | China | RBPT | 0/1470 | 3 | | High |
| **Europe** |  |  |  |  |  |  | |  |
| Cvetnic et al. (2003) | 1996-1998 | Middle | Croatia | Others | 329/2245 | 4 | | High |
| Dahouk et al. (2005) | 1995-1996 | High | Germany | ELISA | 168/763 | 4 | | High |
| Bergagna et al. (2009) | 2001-2007 | High | Italy | Others | 448/2267 | 4 | | High |
| Cvetnić et al. (2009) | 2000-2004 | Middle | Croatia | Others | 864/93531 | 4 | | High |
| Špičić et al. (2010) | 2008 | Middle | Croatia | RBPT | 181/28520 | 3 | | Middle |
| Wu et al. (2011) | 2008.3-2010.1 | High | Switzerland | Others | 121/252 | 4 | | High |
| Grégoire et al. (2012) | 2003-2007 | High | Belgium | ELISA | 641/1168 | 4 | | High |
| Hälli et al. (2012) | 2005-2008 | High | Finland | RBPT | 0/280 | 3 | | Middle |
| Risco et al. (2012) | 2004.10.12-2005.2.28 | High | Spain | ELISA | 121/204 | 4 | | High |
| Cristian et al. (2014) | 2007-2010 | High | Italy | RBPT | 406/1251 | 4 | | High |
| Cristian et al. (2015) | 2009.11.1-2010.1.31 | High | Italy | ELISA | 35/570 | 4 | | High |
| Giulia et al. (2015) | 2009 | High | Italy | RBPT | 25/28 | 3 | | Middle |
| Bertelloni et al. (2018) | 2015.09-2015.12 | High | Italy | Others | 1/1212 | 4 | | High |
| Grantina‑Ievina et al. (2018) | 2015.01-2016.04 | High | Latvia | Others | 235/1044 | 4 | | High |
| Malmsten et al. (2018) | 2013.01-2015.12 | High | Sweden | UN | 0/286 | 4 | | High |
| **Oceania** |  |  |  |  |  |  | |  |
| C Ridoutt et al. (2014) | 2012-2013 | High | Australia | RBPT | 7/238 | 3 | | Middle |
| Pearson et al. (2014) | UN | High | Australia | CFT | 9/83 | 2 | | Middle |

aUN: Unclear.

**Table S5** Included studies and their quality scores

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study No.** | **Reference ID** | **No. tested** | **No. positive** | **Prevalence** | **Random sampling or not** | **Detection method clearly or not** | **Sampled method detailedly or not** | **Sampled time clearly or not** | **Four or more risk factors or not** | **Score** | **Study Quality** |
| 1 | Li et al. (2012) | 10123 | 1 | 0.01% | aN | bY | N | Y | Y | 3 | high |
| 2 | Li (2012a) | 3810 | 2 | 0.05% | Y | Y | N | Y | Y | 4 | high |
| 3 | Li (2012b) | 200 | 0 | 0.00% | Y | Y | N | N | N | 2 | middle |
| 4 | Gong et al. (2012) | 700 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 5 | Zuo et al. (2013) | 6158 | 0 | 0.00% | N | Y | N | Y | N | 2 | middle |
| 6 | Zhang (2013) | 564 | 28 | 4.96% | N | Y | N | Y | Y | 3 | high |
| 7 | Wang et al. (2013) | 22148 | 300 | 1.35% | Y | Y | N | Y | Y | 4 | high |
| 8 | Wang et al. (2012) | 1187 | 29 | 2.44% | N | Y | N | Y | Y | 3 | high |
| 9 | Wu et al. (2012) | 831 | 37 | 4.45% | N | Y | N | N | Y | 2 | middle |
| 10 | Tao et al. (2013) | 200 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 11 | He (2014) | 2280 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 12 | Liu et al. (2014) | 1197 | 1 | 0.08% | N | Y | N | Y | Y | 3 | high |
| 13 | Lu et al (2014) | 2773 | 0 | 0.00% | N | Y | N | Y | N | 2 | middle |
| 14 | You et al (2014) | 2668 | 1 | 0.04% | N | Y | N | Y | Y | 3 | high |
| 15 | Wang (2014) | 901 | 1 | 0.11% | N | Y | N | Y | Y | 3 | high |
| 16 | Qin. (2014) | 100 | 5 | 5.00% | Y | Y | N | Y | Y | 4 | high |
| 17 | Xie et al. (2014) | 2217 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 18 | Song et al. (2015) | 675 | 37 | 5.48% | N | Y | N | Y | Y | 3 | high |
| 19 | Ying. (2015) | 1150 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 20 | Qin et al. (2015) | 548 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 21 | Zhang et al. (2016) | 1131 | 2 | 0.18% | N | Y | N | Y | Y | 3 | high |
| 22 | Yang et al. (2016) | 550 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 23 | Pu et al. (2015) | 433 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 24 | Tao et al. (2016) | 1629 | 2 | 0.12% | N | Y | N | Y | Y | 3 | high |
| 25 | Liu et al. (2017) | 600 | 10 | 1.67% | Y | Y | N | Y | Y | 4 | high |
| 26 | He et al. (2000) | 340 | 33 | 9.71% | N | Y | N | N | Y | 2 | middle |
| 27 | Li et al. (2001) | 325 | 34 | 10.46% | N | Y | N | Y | Y | 3 | high |
| 28 | Pan et al. (2000) | 3155 | 3 | 0.10% | N | Y | N | Y | Y | 3 | high |
| 29 | Chen et al. (2001a) | 897 | 3 | 0.33% | N | Y | N | Y | Y | 3 | high |
| 30 | Chen et al. (2001b) | 30 | 4 | 13.33% | N | Y | N | Y | Y | 3 | high |
| 31 | Gao et al. (2001) | 1113 | 99 | 8.89% | Y | Y | N | Y | Y | 4 | high |
| 32 | Lu et al. (2002) | 30740 | 46 | 0.15% | N | Y | N | N | Y | 2 | middle |
| 33 | Cao et al. (2002) | 456 | 0 | 0.00% | N | Y | N | N | Y | 2 | middle |
| 34 | Li et al. (2002) | 486 | 0 | 0.00% | N | Y | N | N | Y | 2 | middle |
| 35 | Yang et al. (2002a) | 1732 | 16 | 0.92% | Y | Y | N | Y | Y | 4 | high |
| 36 | Yang et al. (2002b) | 600 | 1 | 0.17% | N | Y | N | Y | Y | 3 | high |
| 37 | Ma et al. (2002) | 849 | 41 | 4.83% | N | Y | N | Y | Y | 3 | high |
| 38 | Liu (2003) | 193 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 39 | Liu et al. (2003) | 30933 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 40 | Cao et al. (2003) | 98 | 2 | 2.04% | Y | Y | N | N | Y | 3 | high |
| 41 | Li et al. (2003) | 741 | 4 | 0.54% | N | Y | N | Y | Y | 3 | high |
| 42 | Yang et al. (2003a) | 300 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 43 | Yang et al. (2003b) | 36 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 44 | Wei et al. (2003) | 788 | 28 | 3.55% | Y | Y | N | Y | Y | 4 | high |
| 45 | He et al. (2004) | 526 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 46 | Zhu et al. (2004) | 1543 | 3 | 0.19% | N | Y | N | Y | Y | 3 | high |
| 47 | Wang (2004) | 120 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 48 | Suo et al. (2004) | 106 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 49 | Jiang et al. (2004) | 123 | 1 | 0.81% | N | Y | N | Y | Y | 3 | high |
| 50 | Gao et al. (2004) | 600 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 51 | Kang et al. (2015) | 303 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 52 | Xu et al. (2004) | 2595 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 53 | Bao et al. (2018) | 4170 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 54 | Chen et al. (2018) | 20221 | 7 | 0.03% | N | Y | N | Y | Y | 3 | high |
| 55 | Huang et al. (2017) | 154 | 0 | 0.00% | Y | Y | N | N | Y | 3 | high |
| 56 | Jia et al. (2017) | 1639 | 19 | 1.16% | Y | Y | N | Y | Y | 4 | high |
| 57 | Li et al. (2019a) | 751 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 58 | Li et al. (2019b) | 287 | 18 | 6.27% | Y | Y | N | N | Y | 3 | high |
| 59 | Tao et al. (2017) | 1636 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 60 | Wei et al. (2017) | 3343 | 18 | 0.54% | N | Y | N | Y | Y | 3 | high |
| 61 | Xu et al. (2017) | 1490 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 62 | Zhou (2017) | 30 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 63 | lv et al. (2020) | 1470 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 64 | Zhang (2006) | 2242 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 65 | Zhang et al. (2006) | 989 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 66 | Miao et al. (2006) | 32941 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 67 | Chen et al. (2006) | 941 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 68 | Xu et al. (2007) | 37329 | 40 | 0.11% | N | N | N | Y | Y | 2 | middle |
| 69 | Wang (2007) | 1257 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 70 | Zhong et al. (2007) | 141 | 1 | 0.71% | N | Y | N | N | Y | 2 | middle |
| 71 | Zhang et al. (2008) | 10260 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 72 | Wen et al. (2008) | 119 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 73 | Xiao (2008) | 11324 | 203 | 1.79% | Y | Y | N | Y | Y | 4 | high |
| 74 | Yuan et al. (2008) | 980 | 1 | 0.10% | Y | N | N | Y | Y | 3 | high |
| 75 | Yu (2010) | 2056 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 76 | Cao et al. (2010) | 803 | 2 | 0.25% | N | Y | N | Y | Y | 3 | high |
| 77 | Luo et al. (2009) | 720 | 3 | 0.42% | N | Y | N | Y | Y | 3 | high |
| 78 | Chen (2009) | 4083 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 79 | Zhou (2011) | 274 | 24 | 8.76% | N | Y | N | Y | Y | 3 | high |
| 80 | Zhou et al. (2011) | 404 | 0 | 0.00% | N | Y | N | Y | N | 2 | middle |
| 81 | Ha et al. (2011) | 41 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 82 | Zhang et al. (2011) | 100 | 0 | 0.00% | N | Y | N | N | Y | 2 | middle |
| 83 | Li et al. (2011) | 25069 | 27 | 0.11% | Y | Y | N | Y | Y | 4 | high |
| 84 | Yang et al. (2011) | 302 | 14 | 4.64% | N | Y | N | N | Y | 2 | middle |
| 85 | Wang et al. (2011) | 102 | 0 | 0.00% | Y | Y | N | Y | Y | 4 | high |
| 86 | Xu (2011) | 3990 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 87 | Guo et al. (2011) | 296 | 0 | 0.00% | N | Y | N | Y | Y | 3 | high |
| 88 | Huang et al. (2011) | 1734 | 38 | 2.19% | N | Y | N | Y | Y | 3 | high |
| 89 | Liu et al. (2012) | 800 | 4 | 0.50% | N | Y | N | N | Y | 2 | middle |
| 90 | He et al. (2017) | 978 | 0 | 0.00% | N | Y | N | Y | Y | 3 | middle |
| 91 | Musser et al (2013) | 40 | 4 | 10.00% | N | Y | N | Y | Y | 3 | middle |
| 92 | Pearson et al. (2014) | 83 | 9 | 10.84% | N | Y | N | N | Y | 2 | middle |
| 93 | Ridoutt,et al (2014) | 238 | 7 | 2.94% | N | Y | N | Y | Y | 3 | middle |
| 94 | Barlozzari et al. (2015) | 28 | 25 | 89.29% | N | Y | N | Y | Y | 3 | middle |
| 95 | Pilo et al. (2015) | 570 | 35 | 6.14% | N | Y | Y | Y | Y | 4 | high |
| 96 | Pilo et al. (2014) | 1251 | 406 | 32.45% | N | Y | Y | Y | Y | 4 | high |
| 97 | Erume et al. (2016) | 1665 | 1 | 0.06% | N | Y | N | Y | Y | 3 | middle |
| 98 | Cleveland et al. (2017) | 47 | 1 | 2.13% | N | Y | Y | Y | Y | 4 | high |
| 99 | Cvetnic et al. (2003) | 2245 | 329 | 14.65% | N | Y | Y | Y | Y | 4 | high |
| 100 | AL Dahouk et al. (2005 | 763 | 168 | 22.02% | N | Y | Y | Y | Y | 4 | high |
| 101 | Bertelloni et al. (2018) | 1212 | 1 | 0.08% | N | Y | Y | Y | Y | 4 | high |
| 102 | Grantina‑Ievina et al. (2018) | 1044 | 235 | 22.51% | N | Y | Y | Y | Y | 4 | high |
| 103 | Khan et al. (2019) | 331 | 36 | 10.88% | N | Y | Y | Y | Y | 4 | high |
| 104 | Lama et al. (2018) | 95 | 18 | 18.95% | N | Y | Y | Y | Y | 4 | high |
| 105 | Malmsten et al. (2018) | 286 | 0 | 0.00% | N | Y | Y | Y | Y | 4 | high |
| 106 | Shome et al. (2019) | 575 | 236 | 41.04% | N | Y | Y | N | Y | 3 | middle |
| 107 | Stoffregen et al. (2007) | 80 | 39 | 48.75% | Y | Y | Y | Y | Y | 5 | high |
| 108 | Corn et al. (2009) | 170 | 7 | 4.12% | Y | Y | Y | Y | Y | 5 | high |
| 109 | Grégoire et al. (2012) | 1168 | 641 | 54.88% | Y | N | Y | Y | Y | 4 | high |
| 110 | Špičić et al. (2010) | 28520 | 181 | 0.63% | N | Y | N | Y | Y | 3 | middle |
| 111 | Hälli et al. (2012) | 280 | 0 | 0.00% | N | Y | N | Y | Y | 3 | middle |
| 112 | Meirelles-Bartoli et al. (2012) | 271 | 254 | 93.73% | N | Y | N | Y | Y | 3 | middle |
| 113 | Sandfoss et al. (2012) | 513 | 10 | 1.95% | N | Y | Y | Y | Y | 4 | high |
| 114 | Cvetnić et al. (2009) | 93531 | 864 | 0.92% | N | Y | Y | Y | Y | 4 | high |
| 115 | Wu et al. (2011) | 252 | 121 | 48.0% | N | Y | Y | Y | Y | 4 | high |
| 116 | Pedersen et al. (2017) | 376 | 49 | 13.0% | N | Y | Y | Y | Y | 4 | high |
| 117 | Bergagna et al. (2009) | 2267 | 448 | 19.8% | N | Y | Y | Y | Y | 4 | high |
| 118 | Erume et al. (2016) | 1665 | 2 | 0.1% | Y | Y | Y | Y | Y | 5 | high |
| 119 | Risco et al. (2012) | 204 | 121 | 59.3% | N | Y | Y | Y | Y | 4 | high |
| aN: No;  bY: Yes. | | | | | | | | | | | | | | |
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**Supplementary material 6** Table ofEgger’s test for publication bias

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| slope | bias | se. bias | t | df | p-value |  |
| 0.040 | 4.885 | 1.393 | 3.507 | 117 | 0.001 |  |

**Supplementary material 7** Figure of Egger’s test for publication bias

0

100

200

300

400

500

600

0

10

20

30

40

50

60

Inverse of standard error

Standardised treatment effect (z-score)

**Supplementary material 8** Funnel plot with a trim and fill analysis for the publication bias test

-1.0

-0.5

0.0

0.5

1.0

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 9** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by continent

0.0

0.5

1.0

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 10** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by sampling years

0.0

0.5

1.0

0.10

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 11** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by income level

0.0

0.5

1.0

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 12** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by detection method

0.0

0.5

1.0

0.15

0.10

0.05

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 13** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by season

0.0

0.2

0.4

0.6

0.8

1.0

1.2

1.4

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 14** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by gender

0.0

0.5

1.0

0.15

0.10

0.05

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 15** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by age

-0.4

-0.2

0.0

0.2

0.4

0.6

0.20

0.15

0.10

0.05

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 16** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by feeding mode

0.0

0.2

0.4

0.6

0.8

1.0

1.2

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 17** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by pig classification

-0.2

0.0

0.2

0.4

0.6

0.8

0.15

0.10

0.05

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 18** Funnel plot with pseudo 95% confidence intervals for the examination of publication bias by study quality

0.0

0.5

1.0

0.08

0.06

0.04

0.02

0.00

Freeman-Tukey Double Arcsine Transformed Proportion

Standard Error

**Supplementary material 19** Results of the sensitivity analysis. After omitting one study at a time, the random effects model was used to reanalyze the remaining studies to verify the impact of one study on the overall results.

