

Table S1 Detailed PubMed search strategy

| Search terms | Pain sex-differences and opioids (or experimental findings) | Opioid side effects sex differences | Breast cancer anesthesia or breast surgery analgesia | Female and (preeclampsia or pre-eclampsia) and (biomarker or (cerebrospinal fluid and cerebral) or (placental growth factor or soluble fms-like tyrosine kinase 1 or sFlt-1/PIGF ratio) | Pregnancy and (cardiovascular disease or heart disease or hypertension) |
|---|---|---|---|---|---|
| Time frame | 1998–2022 | 2012–2022 | 2013–2022 | 2003–2022 | 2017–2022 |
| Number of articles | 1,623 | 418 | 1,756 | 1,946 | 1,231 |
| Number of articles included | 63 | 13 | 30 | 19 | 9 |
| Number of articles reviewed: full text screening | 68 | 50 | 63 | 50 | 18 |
| Number of articles reviewed: title/abstract screening | 70 | 100 | 100 | 80 | 72 |
| Number of articles excluded | 1,560 (filtered by article availability, relevance, weak interpretation of results, and/or confounding data) | 255 (filtered by article availability, relevance, resource type, reviews were preferred when available) | 1,656 (filtered by article availability, relevance, resource type, reviews were preferred when available) | 1,866 (filtered by article availability, relevance, resource type, reviews were preferred when available) | 1,159 (filtered by article availability, relevance, resource type, reviews were preferred when available) |
| Language | English only | English only | English only | English only | English only |
| Study types | Basic science, clinical study, clinical trials (I, II, III, and IV), brief review, multicenter study, systematic review, narrative reviews, and meta-analysis study | Classical article, clinical study, clinical trial, systematic review, narrative reviews | Classical article, clinical study, clinical trial, clinical trial, phase I, clinical trial, phase II, clinical trial, phase III, clinical trial, phase IV, clinical trial protocol, comparative study, controlled clinical trial, meta-analysis, multicenter study, observational study, randomized controlled trial, review, systematic review | Prospective and retrospective observational study, clinical study, brief reviews, systematic review, narrative reviews, meta-analysis | Classical article, clinical study, clinical trial, clinical trial, phase I, clinical trial, phase II, clinical trial, phase III, clinical trial, phase IV, clinical trial protocol, comparative study, controlled clinical trial, meta-analysis, multicenter study, observational study, randomized controlled trial, review, systematic review |