Supplementary material 2

Retrieval strategies for different databases:

Pubmed

(“breast” [Title/Abstract] OR “mastectomy” [Title/Abstract] OR “mammaplasty” [Title/Abstract]) AND (((“analgesics, opioid” [MeSH Terms] AND “free” [Title/Abstract]) OR “opioid free” [Title/Abstract]) AND (“anesthes\*” [Title/Abstract] OR “anaesthes\*” [Title/Abstract]))

Cochrane

#1 = ((breast OR mastectomy OR mammaplasty)): ti,ab,kw

#2 = ((opioid free OR opioid free anaesthesia)): ti,ab,kw

#3 = #1 AND #2

Web of Science

#1 = **((TS = (breast)) OR TS=(mastectomy)) OR TS = (mammaplasty)**

#2= **(TS = (opioid free)) OR TS = (opioid free anaesthesia)**

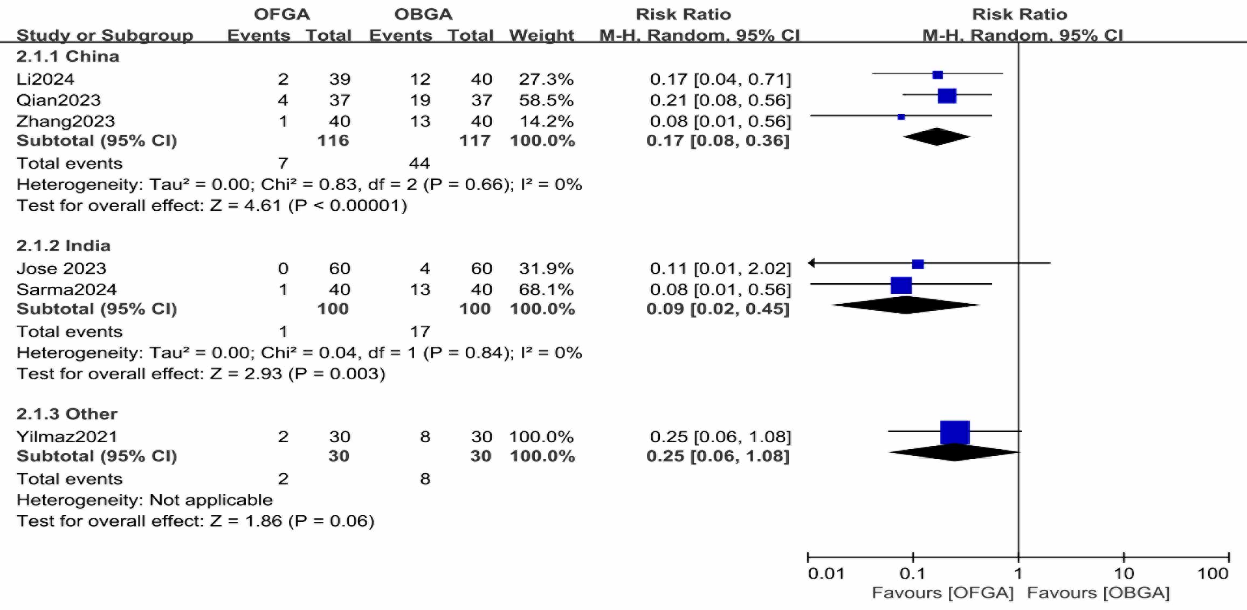
#3 = #1 AND #2

Embase

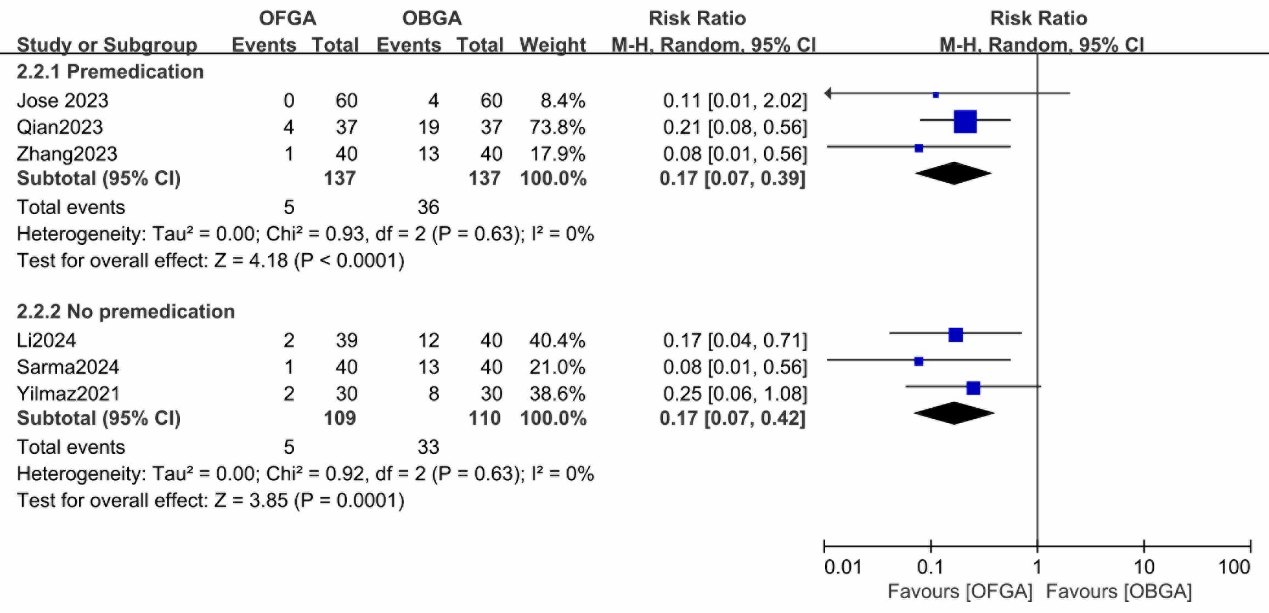
#1 = breast:ti,ab,kw OR mastectomy:ti,ab,kw OR mammaplasty:ti,ab,kw

#2 = “opioid free” OR ((“opioid”/exp OR opioid) AND free) OR “opioid free”: ti,ab,kw OR “opioid free anaesthesia”: ti,ab,kw

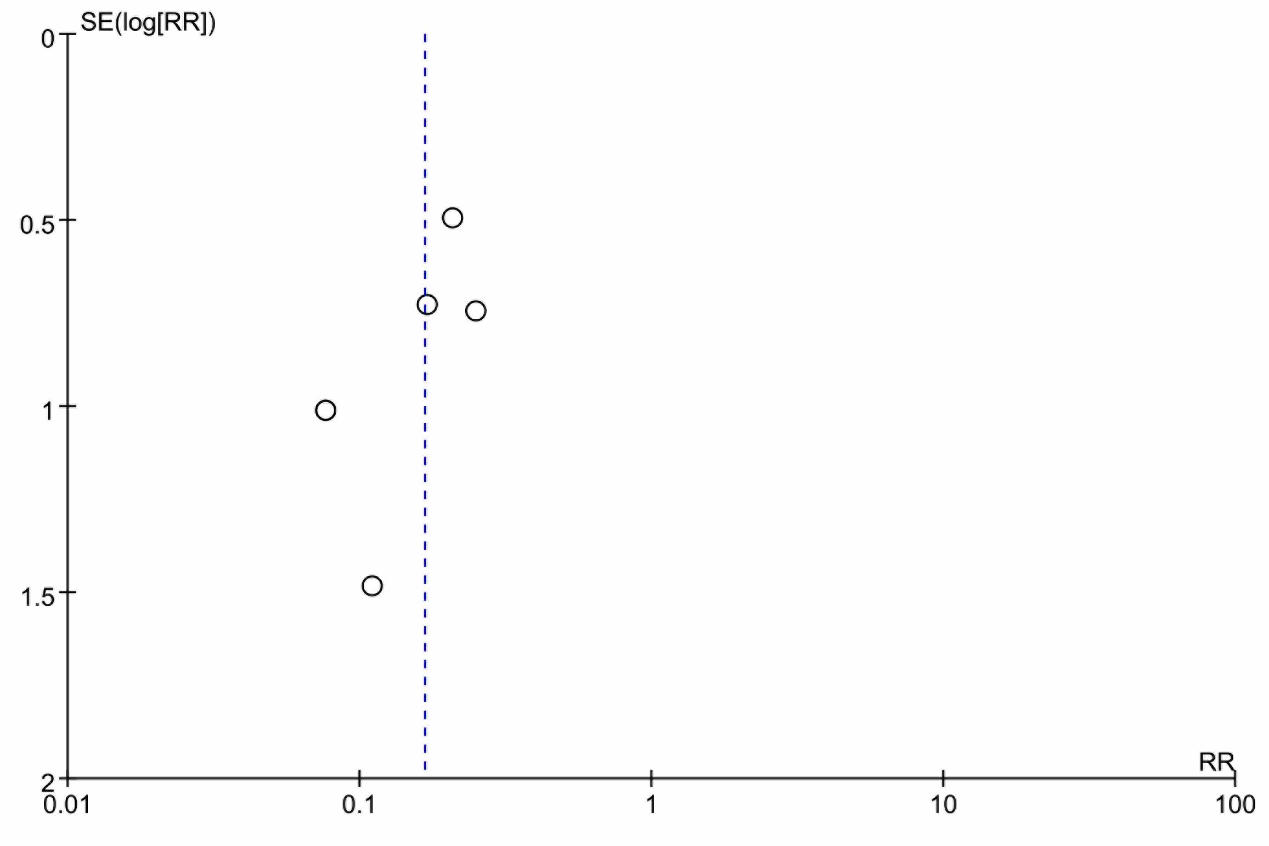
#3= #1 AND #2



**Supplementary Fig. 1. Subgroup analysis for the incidence of PONV between OFGA and OBGA groups according to different countries.** PONV, postoperative nausea and vomiting; OFGA, opioid-free general anesthesia; OFBA, opioid-based general anesthesia; M-H, mantel–haenszel; CI, confidence interval.



**Supplementary Fig. 2. Subgroup analysis for the incidence of PONV between OFGA and OBGA groups according to premedication.** PONV, postoperative nausea and vomiting; OFGA, opioid-free general anesthesia; OFBA, opioid-based general anesthesia; M-H, mantel–haenszel; CI, confidence interval.



**Supplementary Fig. 3. Funnel plot for the incidence of PONV.** PONV, postoperative nausea and vomiting.