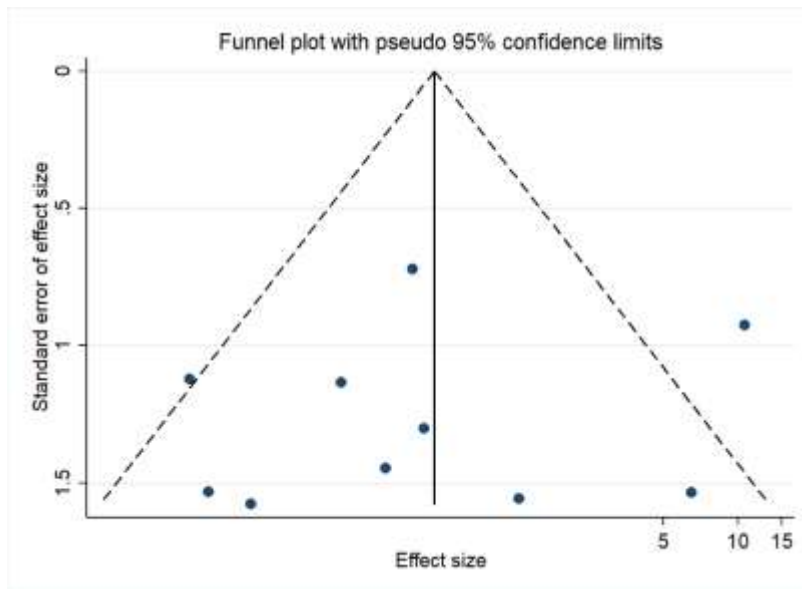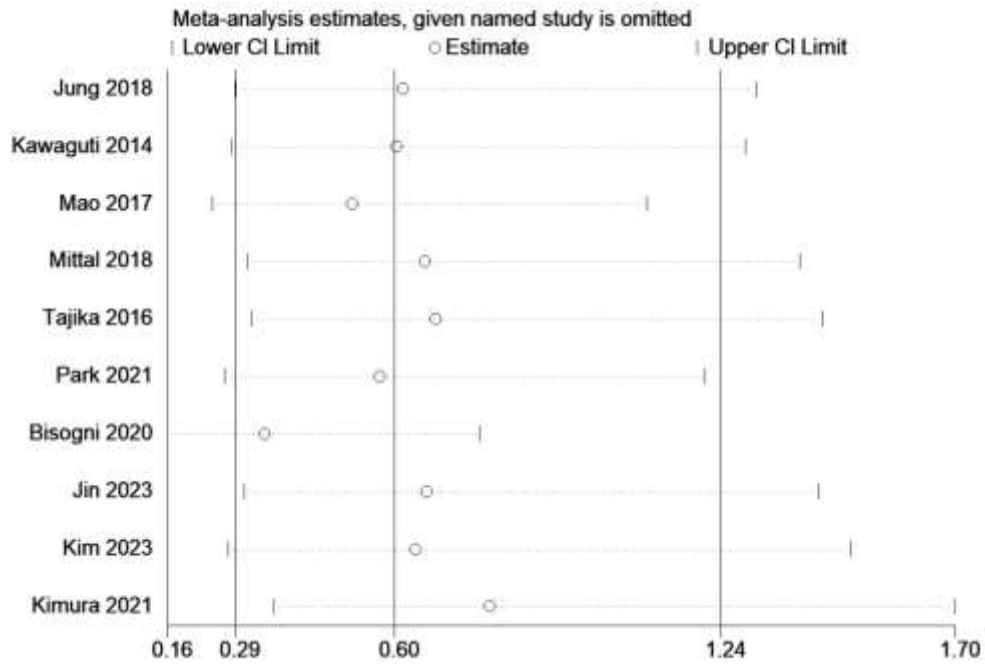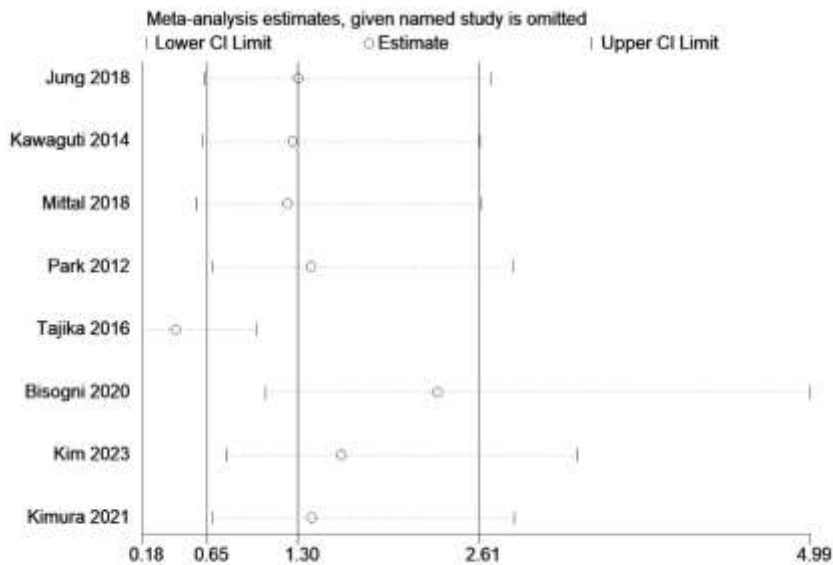**Supplementary material**. Search strategy

("endoscopic mucosal resection"[MeSH Terms] OR ("endoscopic"[All Fields] AND "mucosal"[All Fields] AND "resection"[All Fields]) OR "endoscopic mucosal resection"[All Fields] OR ("endoscopic"[All Fields] AND "submucosal"[All Fields] AND "dissection"[All Fields]) OR "endoscopic submucosal dissection"[All Fields]) AND ("transanal endoscopic surgery"[MeSH Terms] OR ("transanal"[All Fields] AND "endoscopic"[All Fields] AND "surgery"[All Fields]) OR "transanal endoscopic surgery"[All Fields]) AND ("rectal neoplasms"[MeSH Terms] OR ("rectal"[All Fields] AND "neoplasms"[All Fields]) OR "rectal neoplasms"[All Fields] OR ("rectal"[All Fields] AND "tumours"[All Fields]) OR "rectal tumours"[All Fields])
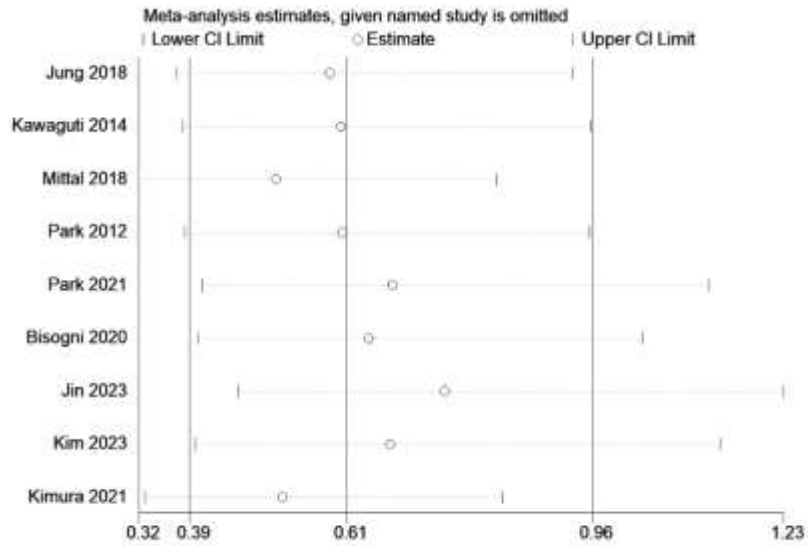

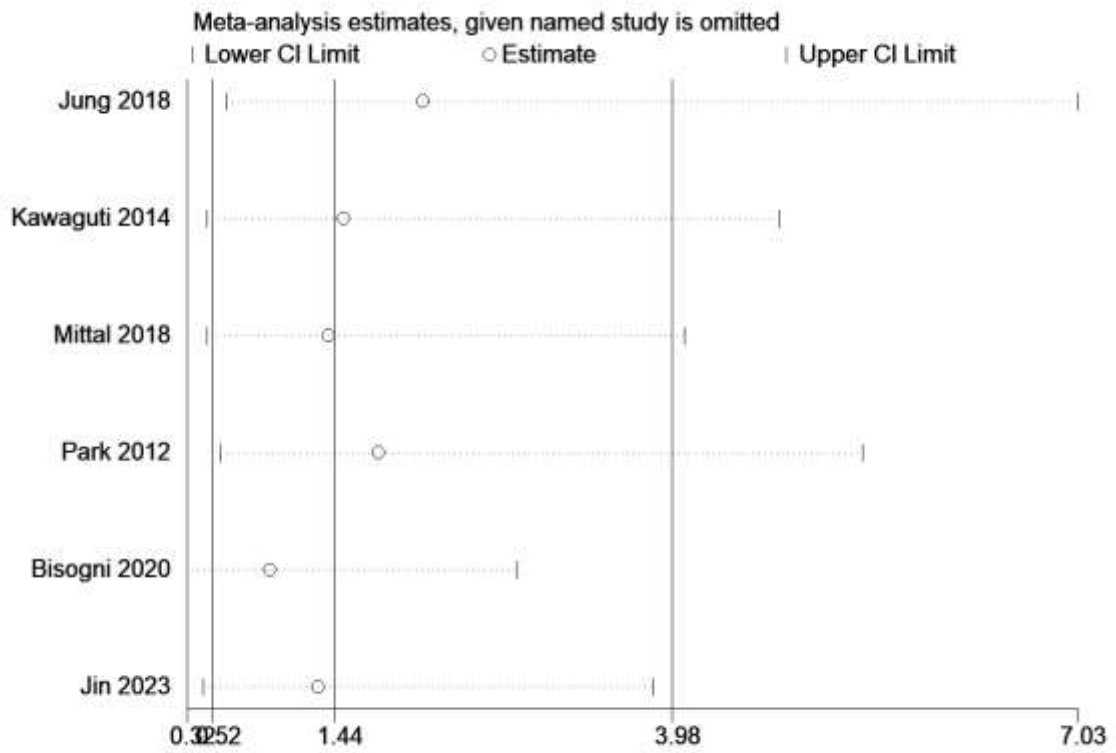**Supplementary Figure 1 Funnel plot for recurrence outcome.**

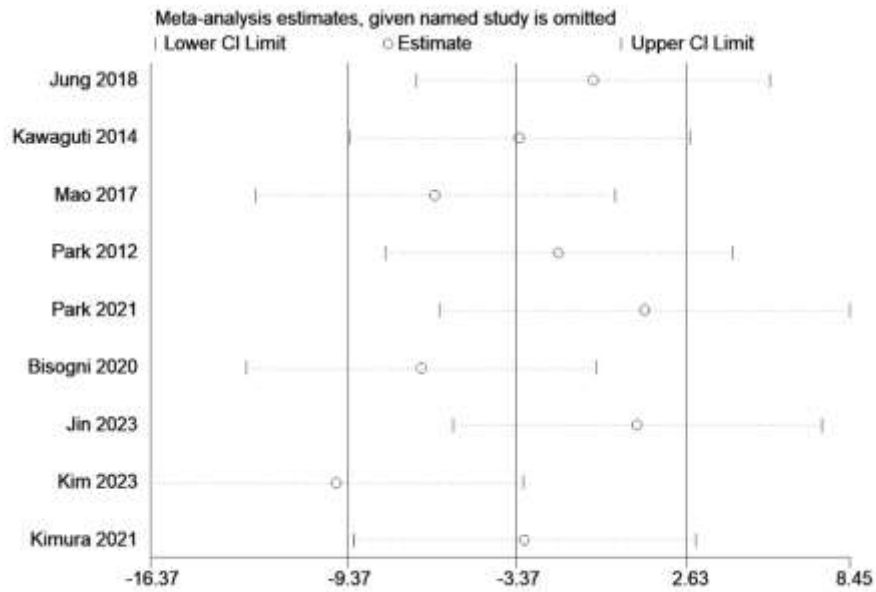Supplementary Figure 2 Sensitivity analysis for recurrence outcome.

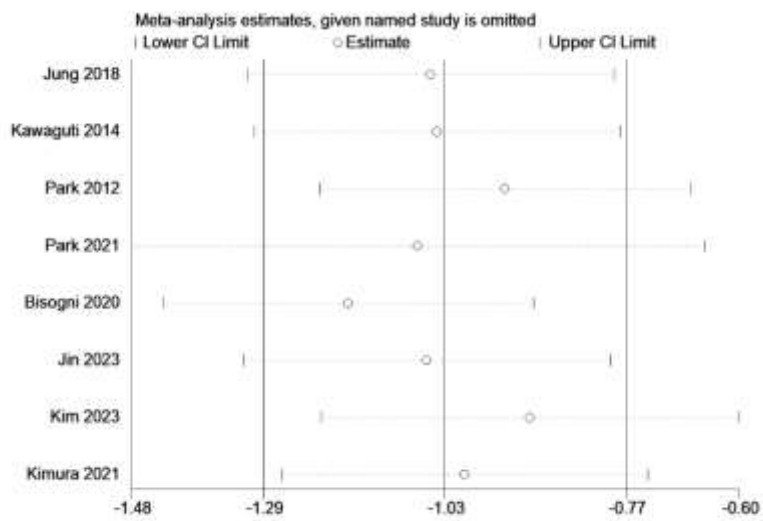Supplementary Figure 3 Sensitivity analysis for en bloc resection outcome.

Supplementary Figure 4 Sensitivity analysis for R0 resection outcome.

Supplementary Figure 5 Sensitivity analysis for R0 resection outcome.

Supplementary Figure 6 Sensitivity analysis for R0 resection outcome.

Supplementary Figure 7 Sensitivity analysis for hospital stay length.