

Captions and Descriptions of Supplementary Figures

Figure S1. Forest plots of risk ratios and mean differences of oncological outcomes of the included studies in fixed-effect model, (A) Quirke quality of mesorectum to be complete, (B) circumferential resection margin, (C) positive circumferential resection margin, (D) positive distal resection margin, and (E) harvested lymph nodes. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; SD: standard deviation; M-H: Mantel-Haenszel; IV: inverse variance; CI: confidence interval.

Figure S2. Forest plots of risk ratios of Quirke quality of mesorectum, (A) nearly complete in random-effects model, (B) nearly complete in fixed-effect model, (C) incomplete in random-effects model, and (D) incomplete in fixed-effect model. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; M-H: Mantel-Haenszel; CI: confidence interval.

Figure S3. Forest plots of risk ratios of positive circumferential resection margin defined as within 1 mm, (A) random-effects model, and (B) fixed-effect model. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; M-H: Mantel-Haenszel; CI: confidence interval.

Figure S4. Forest plots of risk ratios and mean differences of subgroup analyses, (A) operative time by one team in TaTME, (B) intraoperative bleeding in random-effects model, (C) intraoperative bleeding in fixed-effect model, (D) intraoperative adjacent organ injury in random-effects model, (E) intraoperative adjacent organ injury in fixed-effect model, and (F) hospital stay without ERAS. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; SD: standard deviation; M-H: Mantel-Haenszel; IV: inverse variance; CI: confidence interval.

Figure S5. Forest plots of risk ratios of perioperative outcomes of the included studies in fixed-effect model, (A) conversion, (B) diverting ostomy, (C) splenic flexure mobilization, and (D) overall intraoperative complications. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; M-H: Mantel-Haenszel; CI: confidence interval.

Figure S6. Forest plots of risk ratios of short-term postoperative outcomes of the included studies in fixed-effect model, (A) overall postoperative complications, (B) anastomotic leakage, (C) prolonged postoperative ileus, (D) wound infection, (E) urinary retention, and (F) readmission. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; M-H: Mantel-Haenszel; CI: confidence interval.

Figure S7. Forest plots of risk ratios of short-term postoperative complications classified according to the Dindo-Clavien classification, (A) grade I in random-effects model, (B) grade I in fixed-effect model, (C) grade II in random-effects model, (D) grade II in fixed-effect model, (E) grade III in random-effects model, (F) grade III in fixed-effect model, (G) grade IV in random-effects model, and (H) grade IV in fixed-effect model. TaTME: transanal total mesorectal excision; LaTME: laparoscopic total mesorectal excision; M-H: Mantel-Haenszel; CI: confidence interval.

Figure S1

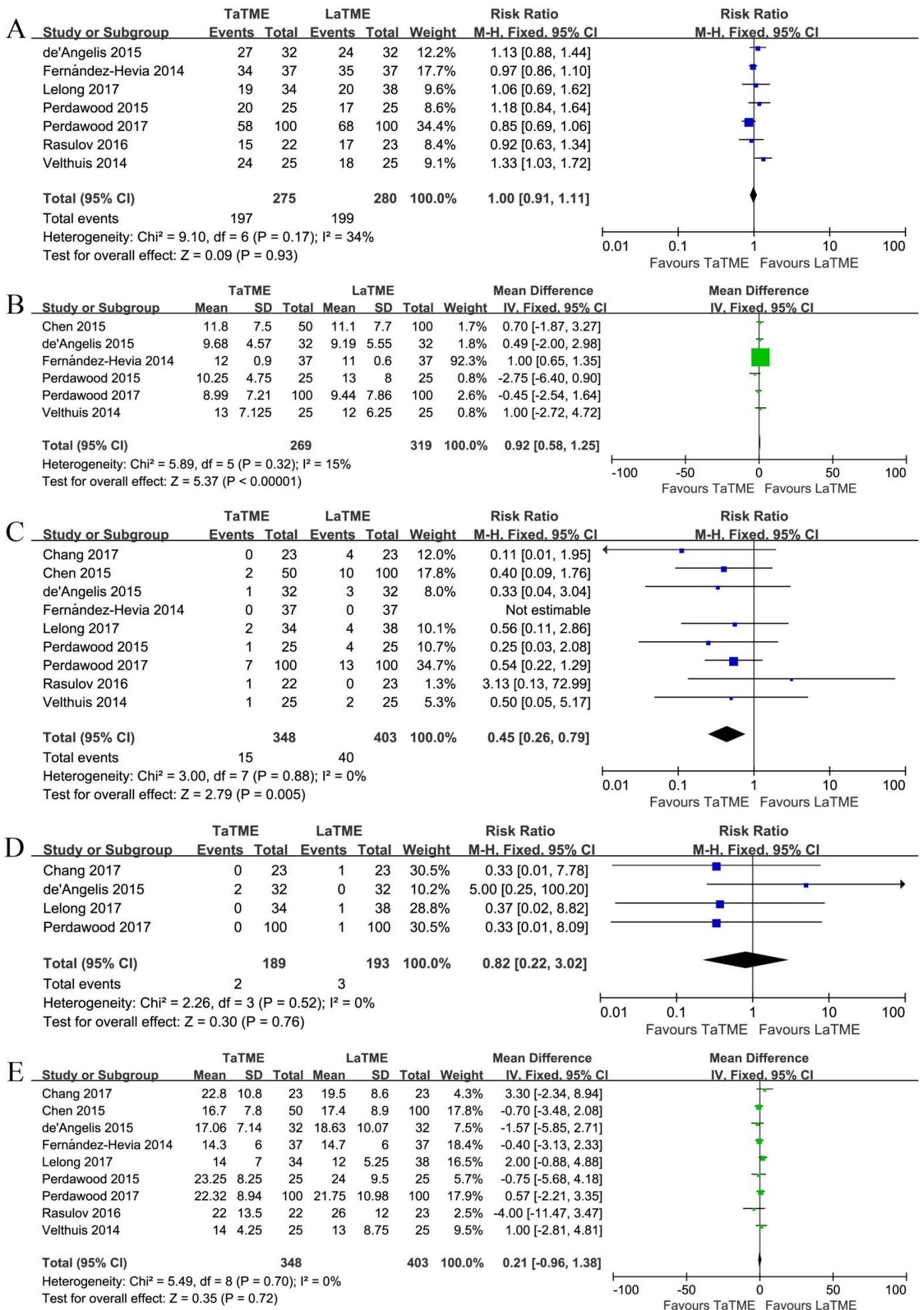


Figure S2

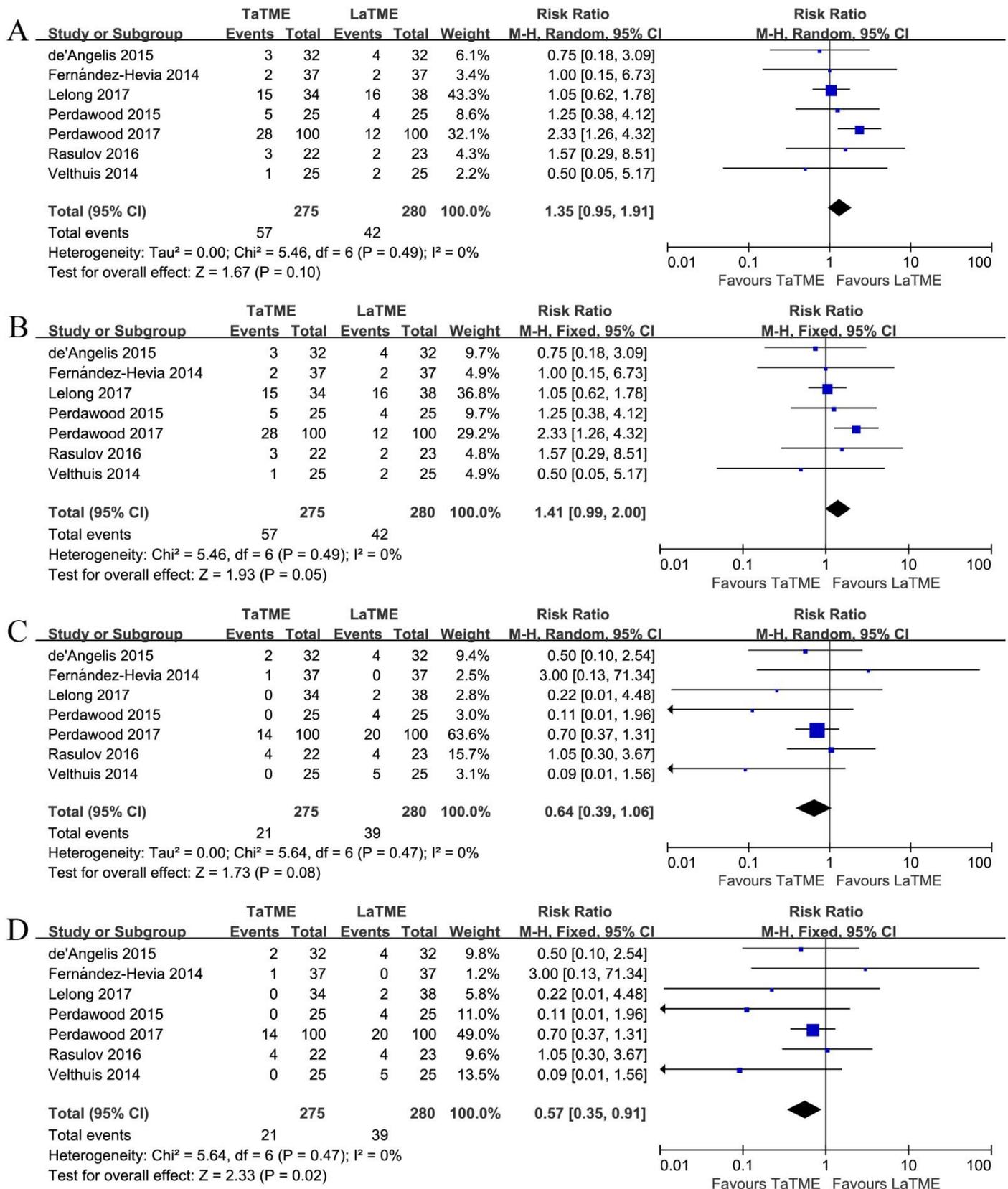


Figure S3

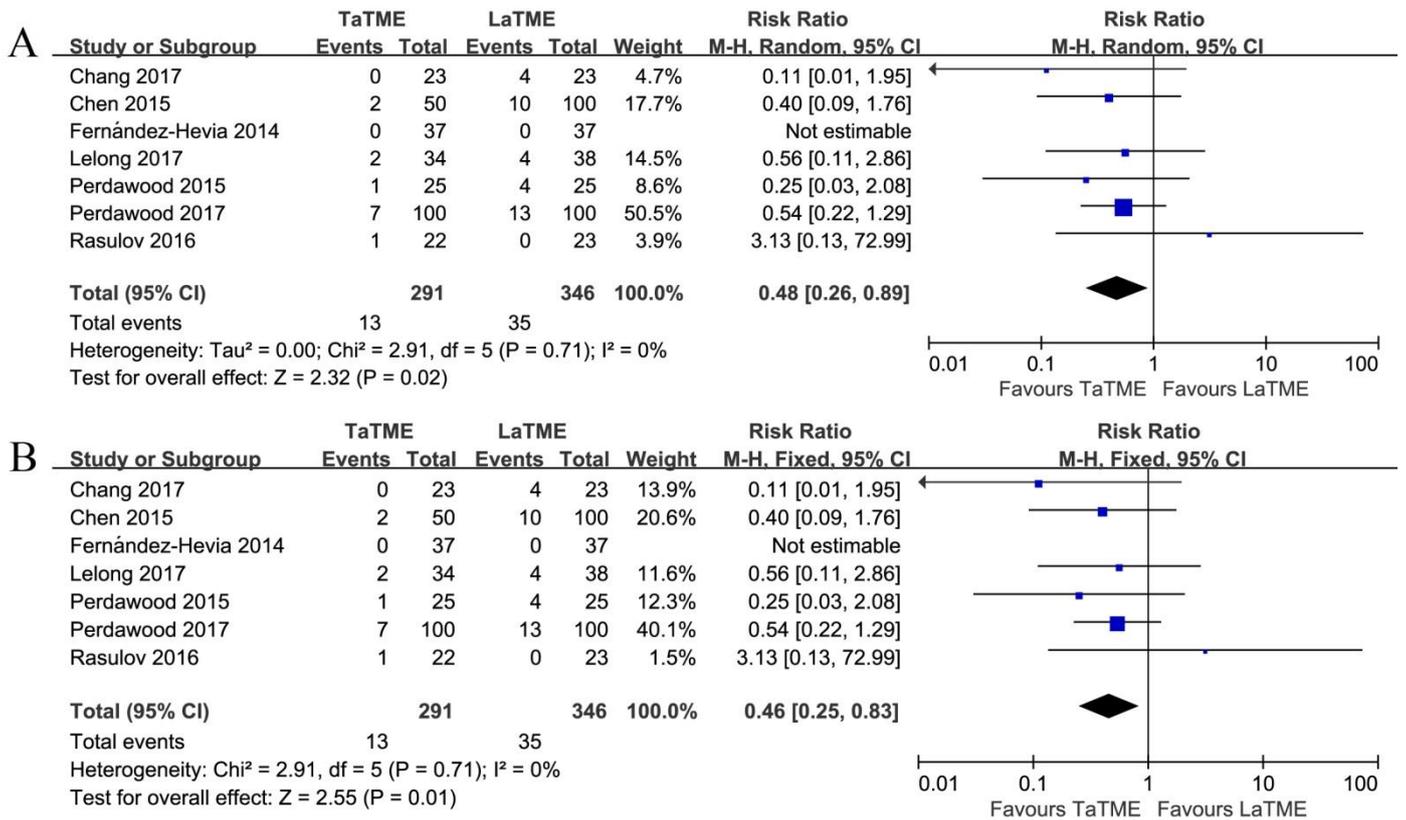


Figure S4

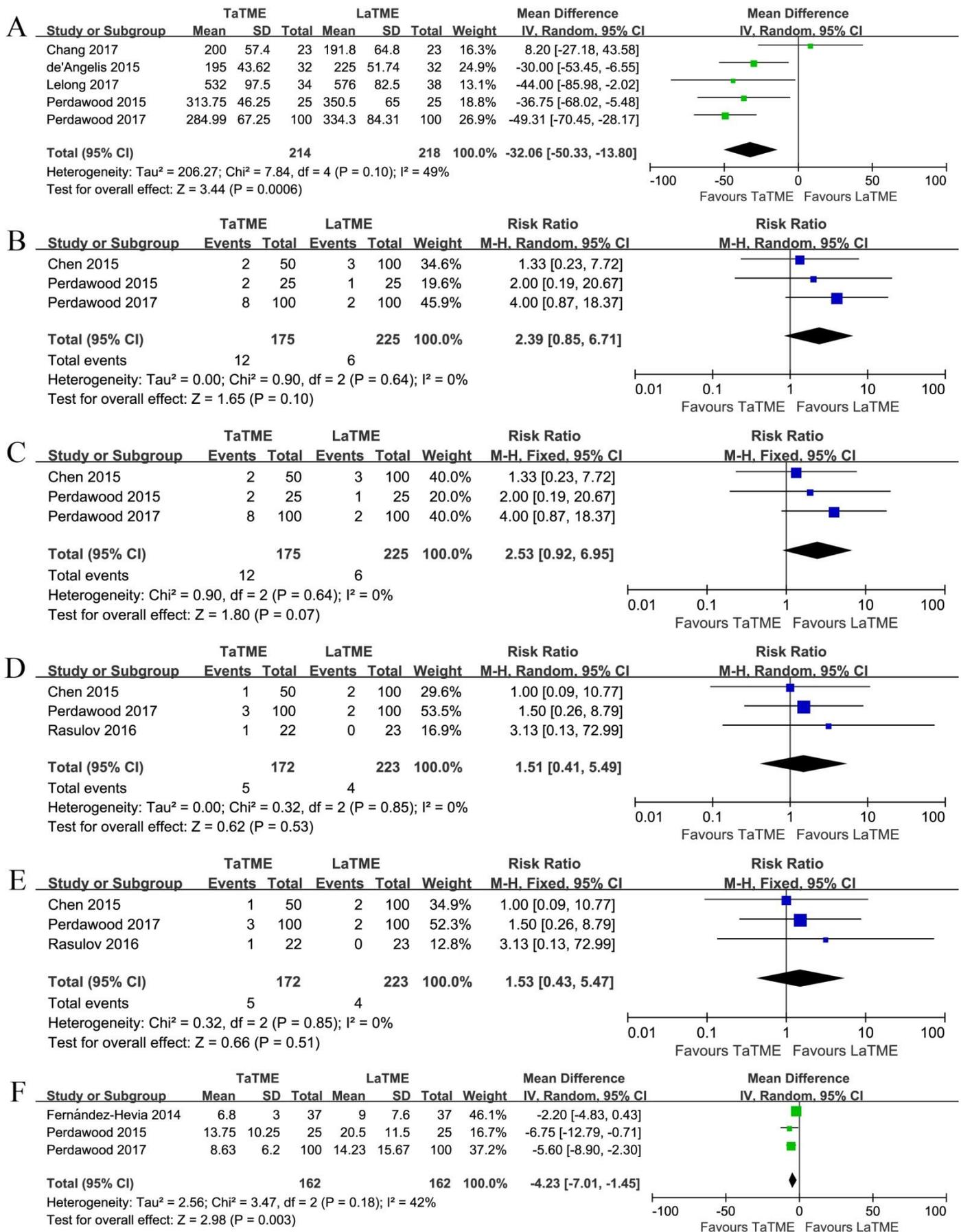


Figure S5

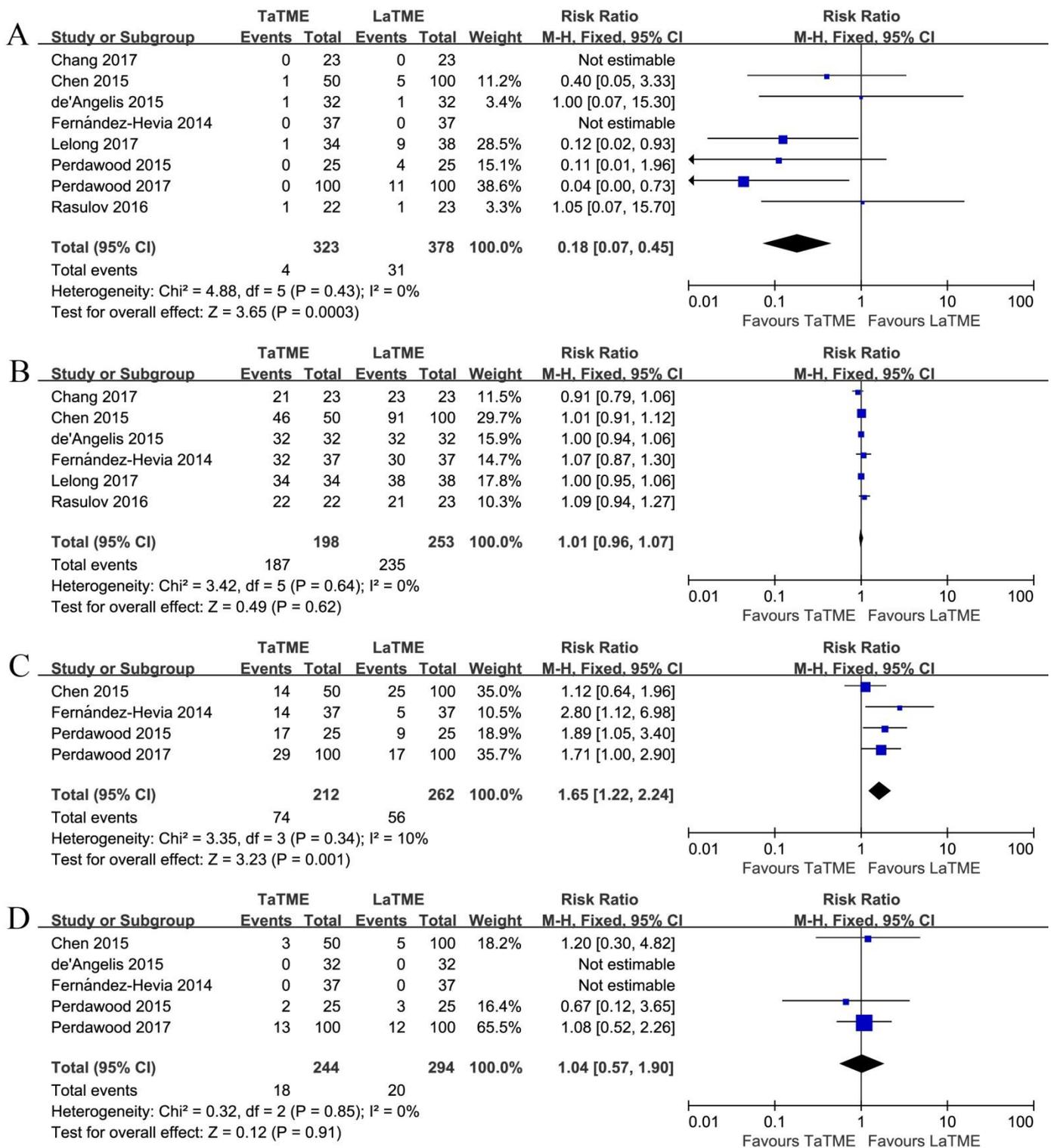


Figure S6

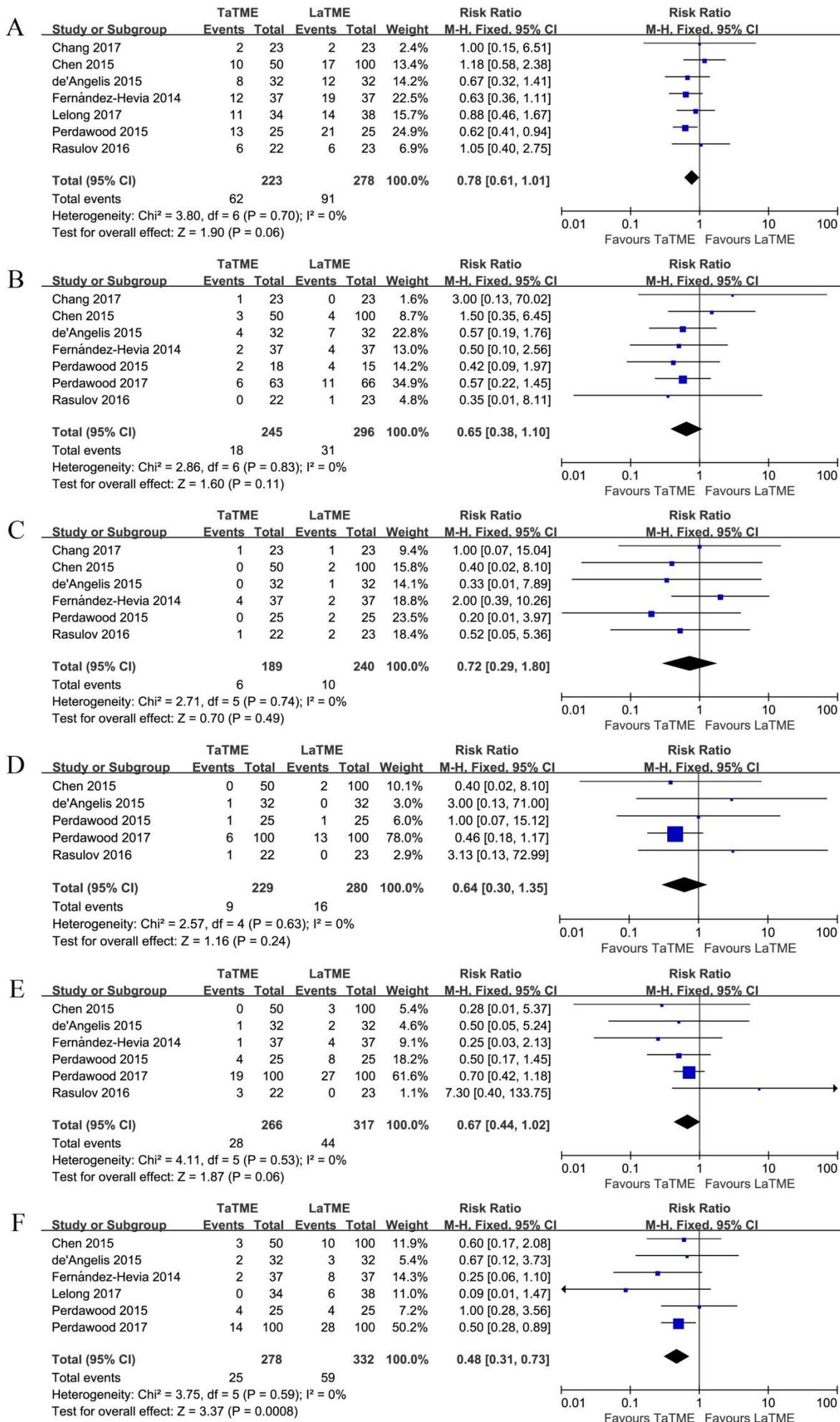


Figure S7

