Supplementary files

Table S1 Search Strategy in Pubmed

Population（Patients with lumbar disc herniation）	#1：((((lumbar disc herniation[Title/Abstract]) OR lumbar disc prolapse[Title/Abstract]) OR lumbar disc rupture[Title/Abstract]) OR lumbar intervertebral disc protrusion[Title/Abstract]) OR ldh[Title/Abstract]
Intervention（PTED）	#2：(((((((((percutaneous endoscopic lumbar discectomy[Title/Abstract]) OR percutaneous endoscopic discectomy[Title/Abstract]) OR minimally invasive transforaminal discectomy[Title/Abstract]) OR transforaminal endoscopic[Title/Abstract]) OR pted[Title/Abstract]) OR peld[Title/Abstract]) OR tessys[Title/Abstract]) OR yess[Title/Abstract]) OR peid[Title/Abstract]) OR percutaneous endoscopic interlaminar discectomy[Title/Abstract]
Comparision（MED and OD）	#3：((((((microdiscectomy[Title/Abstract]) OR micro-endoscopy[Title/Abstract]) OR microscopic diskectomy[Title/Abstract]) OR microendoscopy discectomy[Title/Abstract]) OR discectom[Title/Abstract]) OR microsurgical enucleation discectomy[Title/Abstract]) OR med[Title/Abstract] #4：((((((((((((((((((((fenestration discectomy[Title/Abstract]) OR open discectomy[Title/Abstract]) OR open lumbar discectomy[Title/Abstract]) OR standard discectomy[Title/Abstract]) OR traditional lumbar discectomy[Title/Abstract]) OR conventional lumbar discectomy[Title/Abstract]) OR vertebral plate resection[Title/Abstract]) OR hemilaminectomy[Title/Abstract]) OR semi-laminectomy[Title/Abstract]) OR disk excision from posterior approach[Title/Abstract]) OR vertebral plate decompression[Title/Abstract]) OR semi-lamina[Title/Abstract]) OR omni-posterior decompression[Title/Abstract]) OR omni-posterior resection[Title/Abstract]) OR small incision laminectomy[Title/Abstract]) OR laminectomy[Title/Abstract]) OR unilateral vertebral plate decompression[Title/Abstract]) OR transforaminal lumbar interbody fusion[Title/Abstract]) OR posterior lumbar interbody fusion[Title/Abstract]) OR tilf[Title/Abstract]) OR plif[Title/Abstract]
Study	#5: ((((((((((((randomized controlled trial[Title/Abstract]) OR controlled clinical trial[Title/Abstract]) OR randomized[Title/Abstract]) OR review study[Title/Abstract]) OR retrospective studies[Title/Abstract]) OR retrospective analysis[Title/Abstract]) OR retrospective control study[Title/Abstract]) OR retrospective cohort study[Title/Abstract]) OR retrospective case control study[Title/Abstract]) OR prospective study[Title/Abstract]) OR control study[Title/Abstract]) OR comparative study[Title/Abstract]) OR clinical trial[Title/Abstract]) OR clinic trial[Title/Abstract]

#1 AND #2 AND (#3 OR #4) AND #5

Supplementary Figure S1 Meta-analysis for surgical related indicators and postoperative curative effect

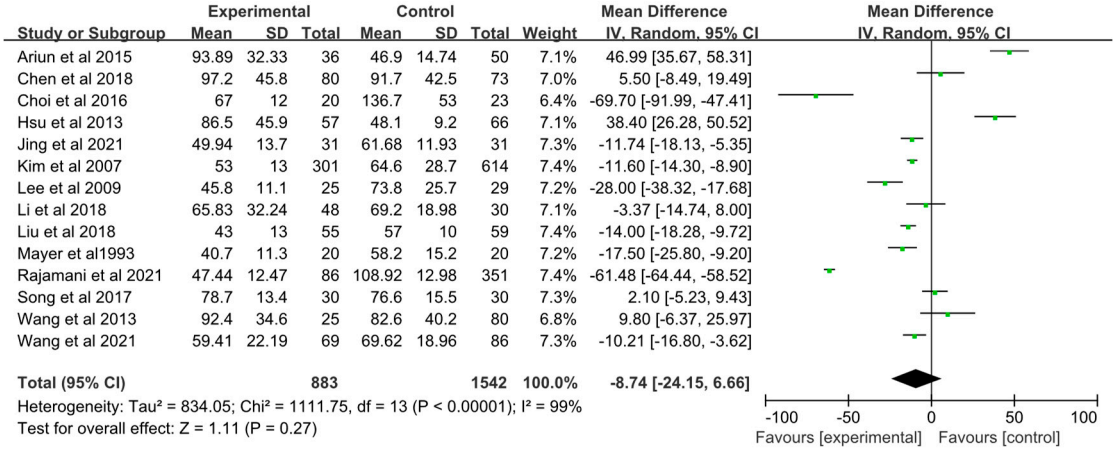


Figure S1a.Meta-analysis for duration of average operation time (min) between PTED and MED

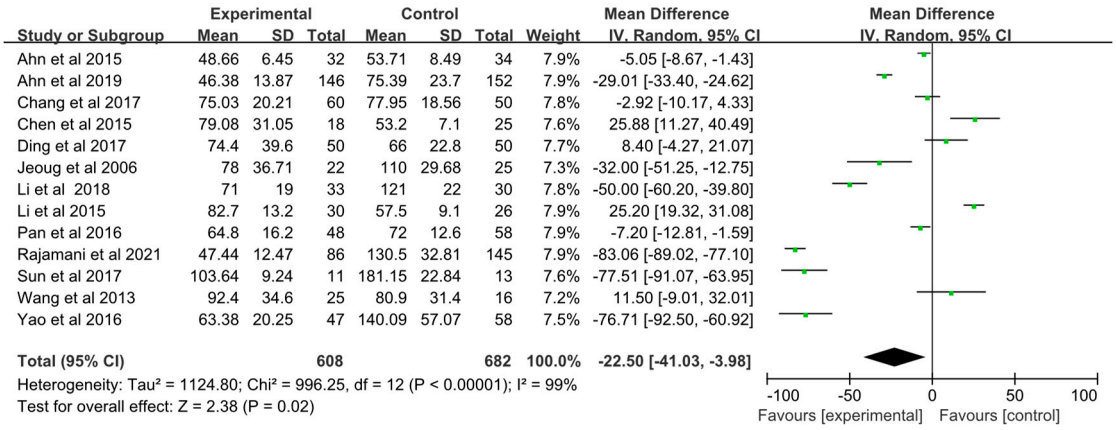


Figure S1b.Meta-analysis for duration of average operation time (min) between PTED and OD

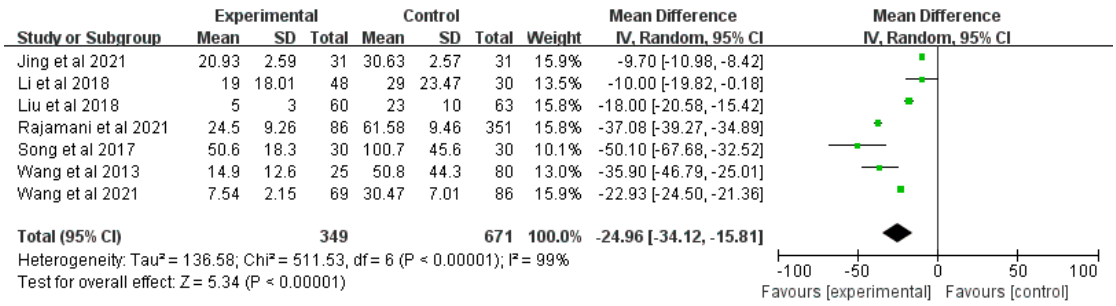


Figure S2a.Meta-analysis for duration of intraoperative blood loss (ml) between PTED and

MED

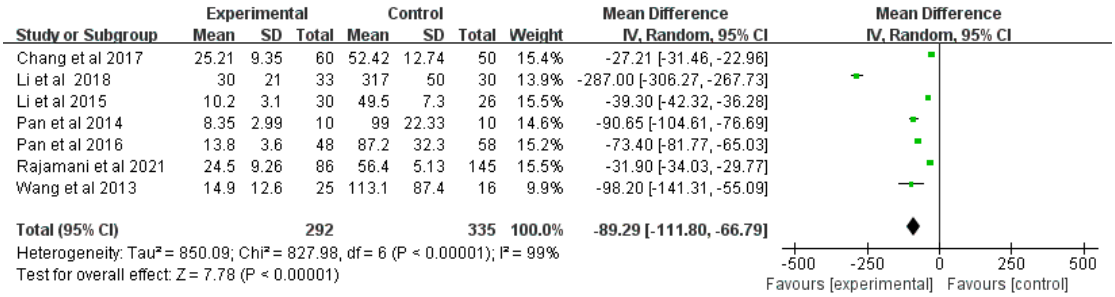


Figure S2b.Meta-analysis for duration of intraoperative blood loss (ml) between PTED and OD

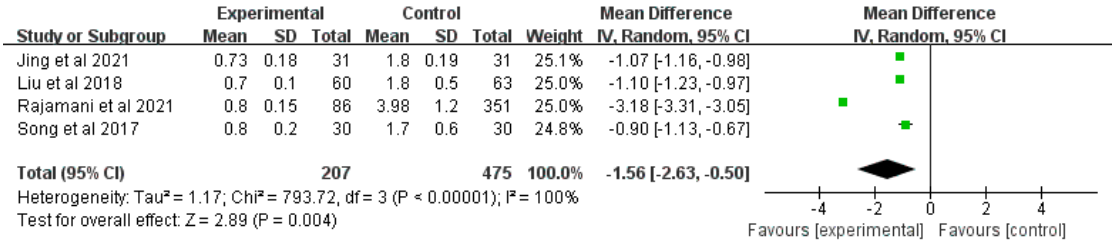


Figure S3a.Meta-analysis for size of incision(cm) between PTED and MED

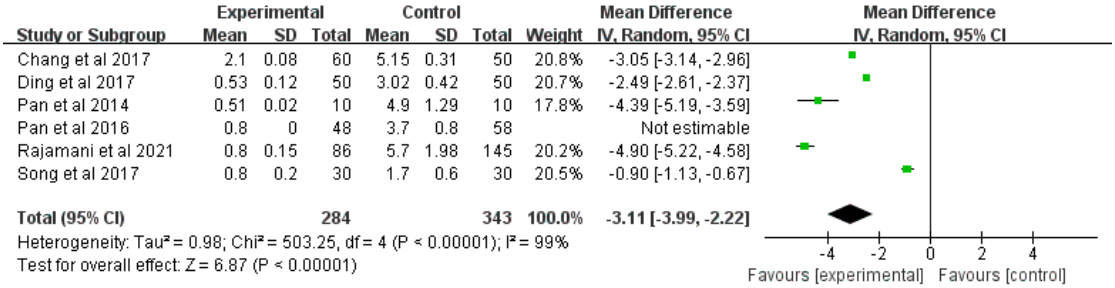


Figure S3b.Meta-analysis for size of incision(cm) between PTED and OD

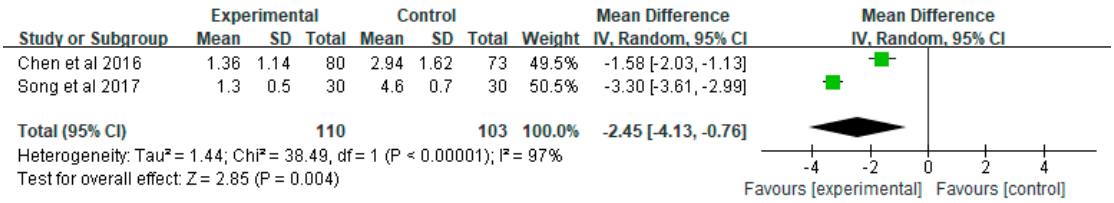


Figure S4a.Meta-analysis for postoperative bed rest time (day) between PTED and MED

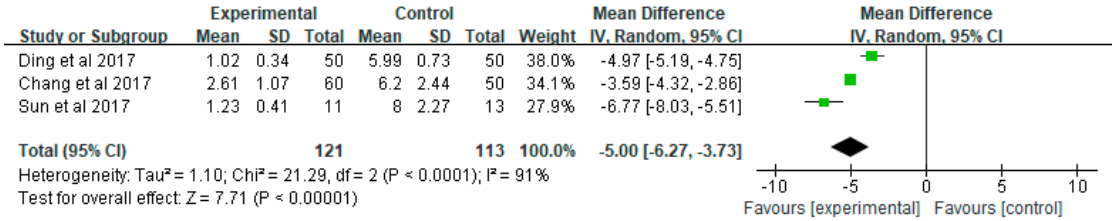


Figure S4b.Meta-analysis for postoperative bed rest time (day) between PTED and OD

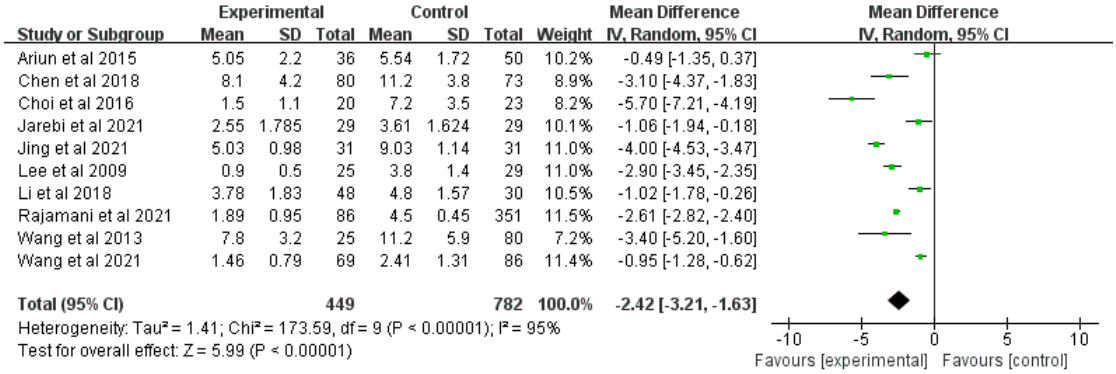


Figure S5a.Meta-analysis for hospitalization time between PTED and MED

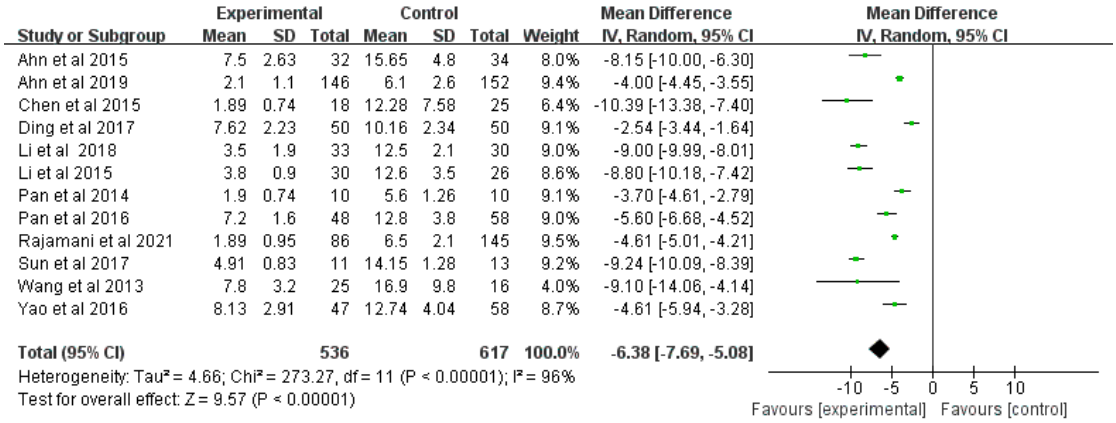


Figure S5b.Meta-analysis for hospitalization time between PTED and OD

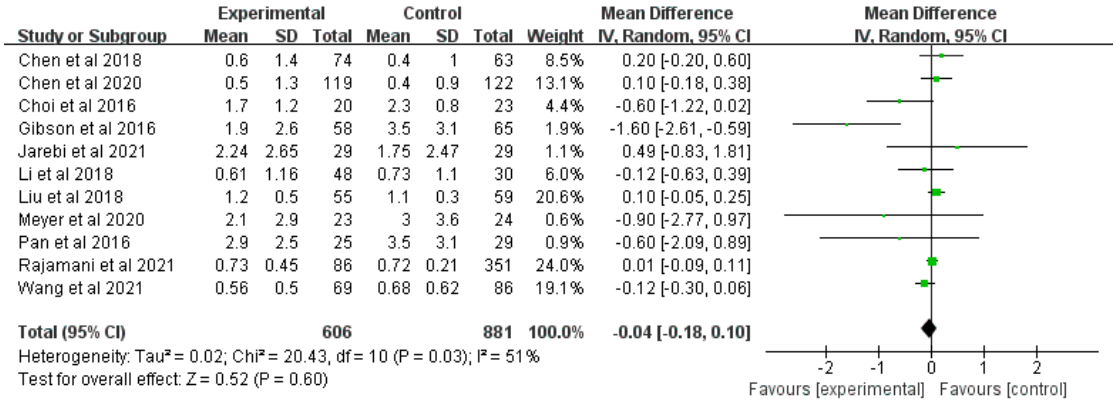


Figure S6a.Meta-analysis for VAS score of legs between PTED and MED

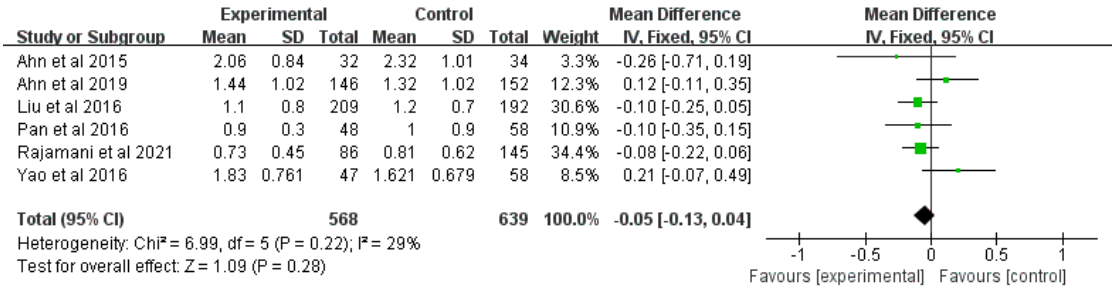


Figure S6b.Meta-analysis for VAS score of legs between PTED and OD

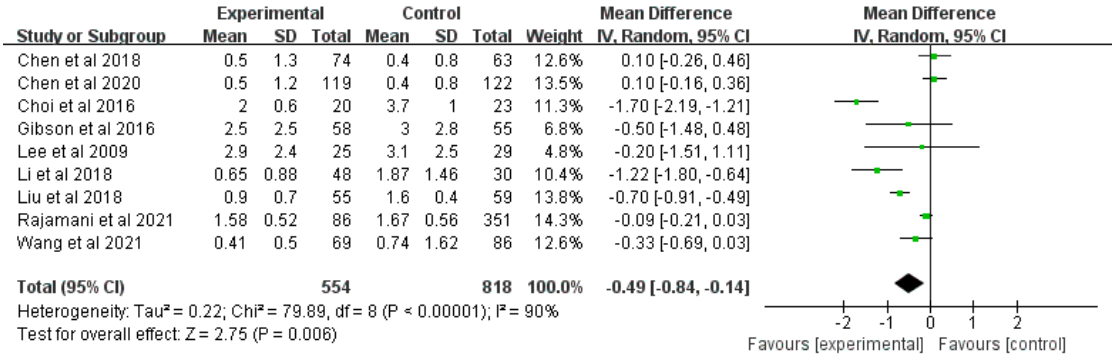


Figure S7a.Meta-analysis for VAS score of the low back between PTED and MED

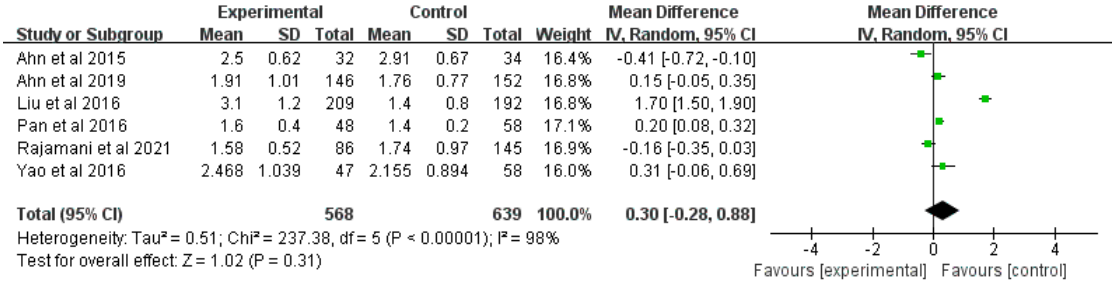


Figure S7b.Meta-analysis for VAS score of the low back between PTED and OD

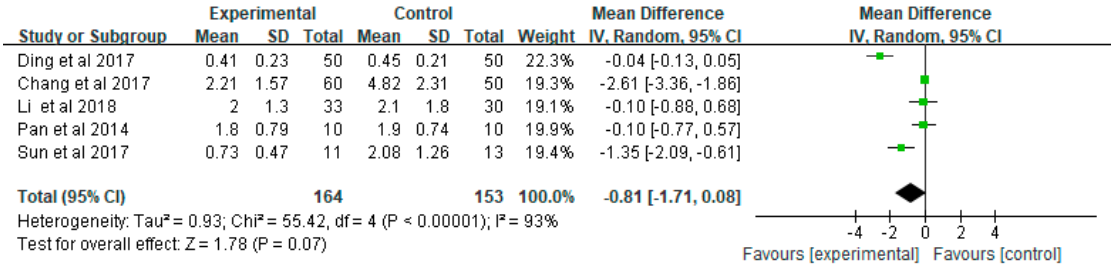


Figure S8. Meta-analysis for postoperative comprehensive VAS score between PTED and OD

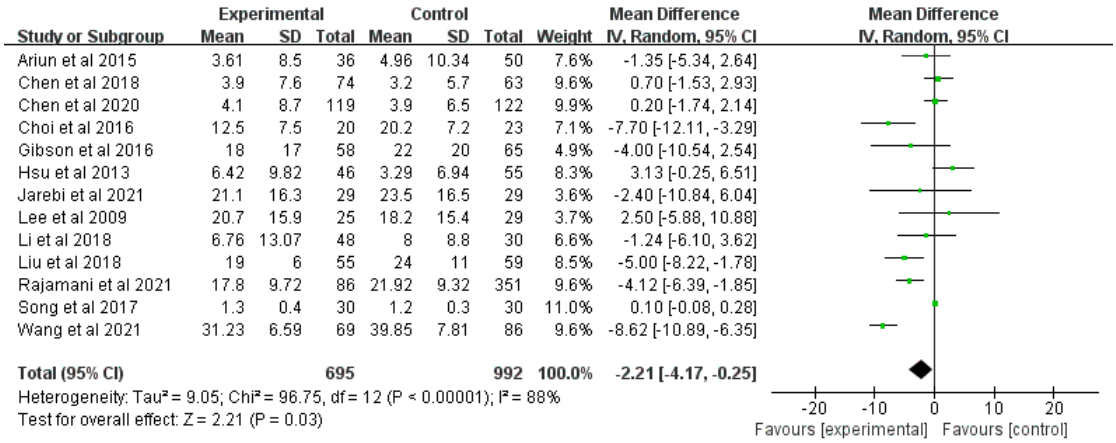


Figure S9a.Meta-analysis for postoperative ODI index between PTED and MED

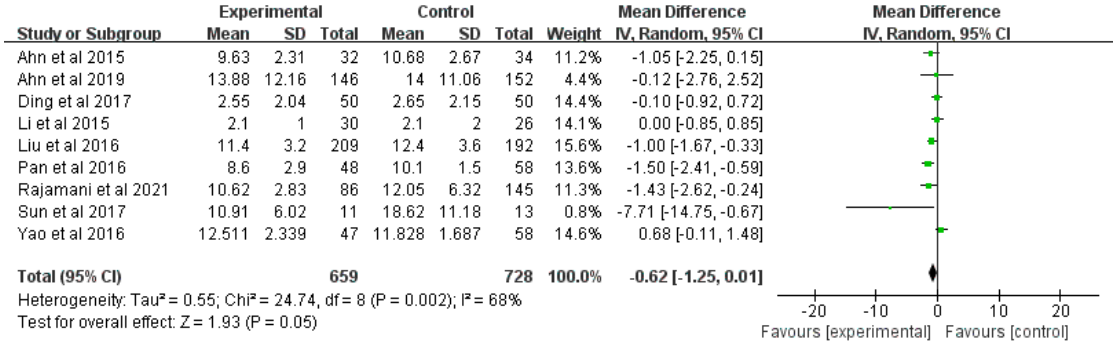


Figure S9b.Meta-analysis for postoperative ODI index between PTED and OD

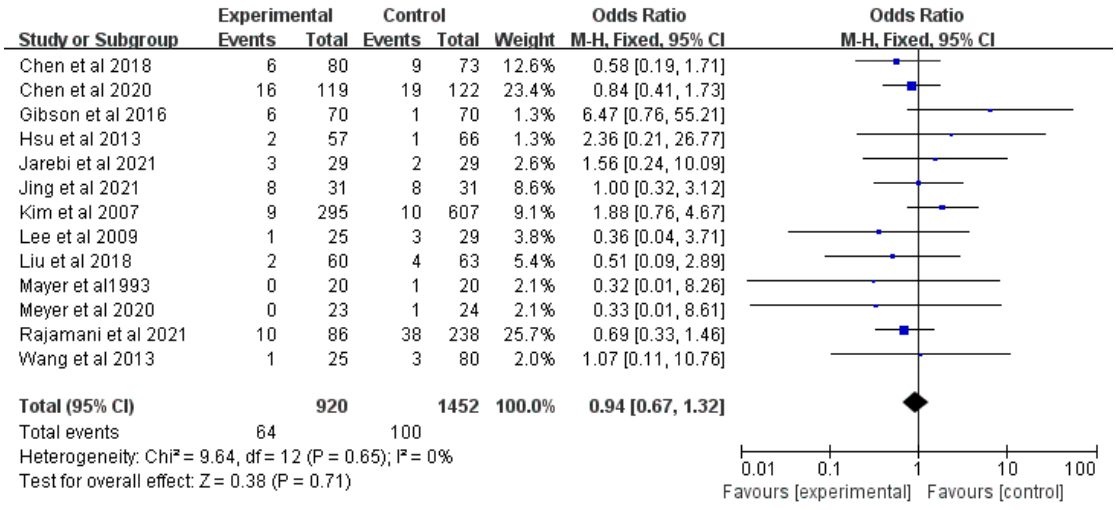


Figure S10a.Meta-analysis for incidence of complications between PTED and MED

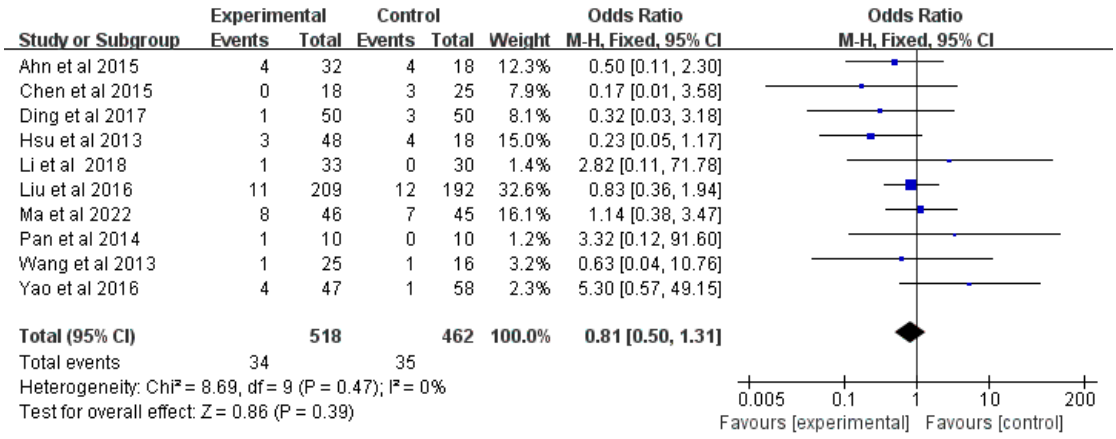


Figure S10b.Meta-analysis for incidence of complications between PTED and OD

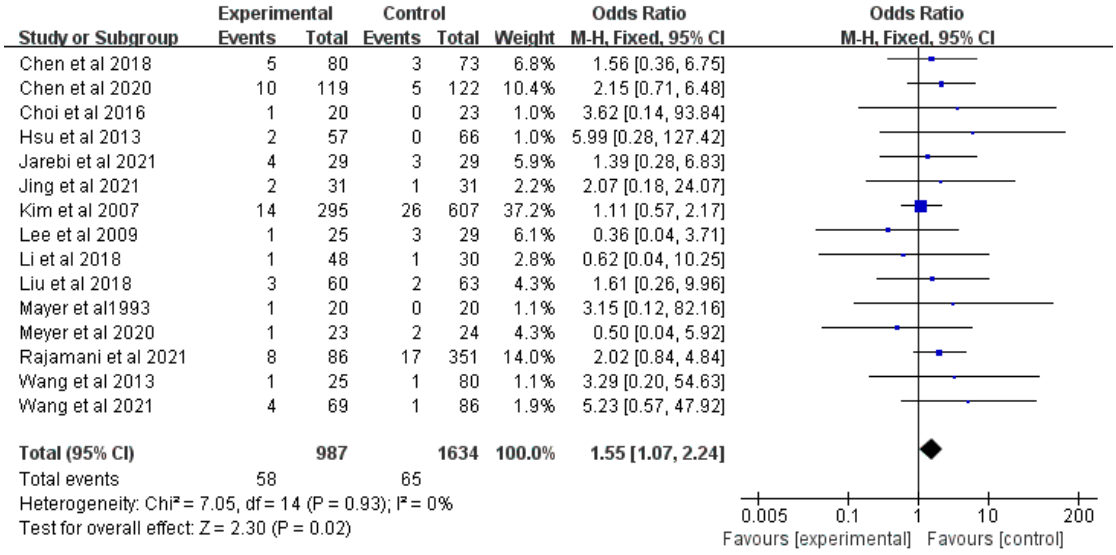


Figure S11a.Meta-analysis for incidence of recurrence between PTED and MED

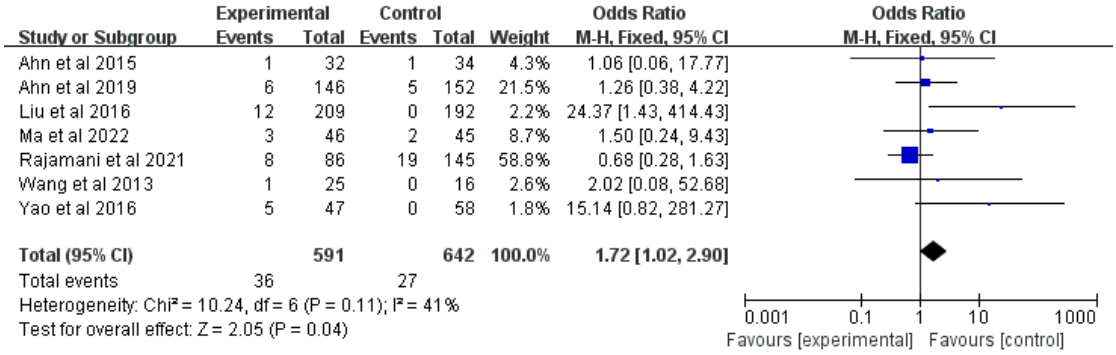


Figure S11b.Meta-analysis for incidence of recurrence between PTED and OD

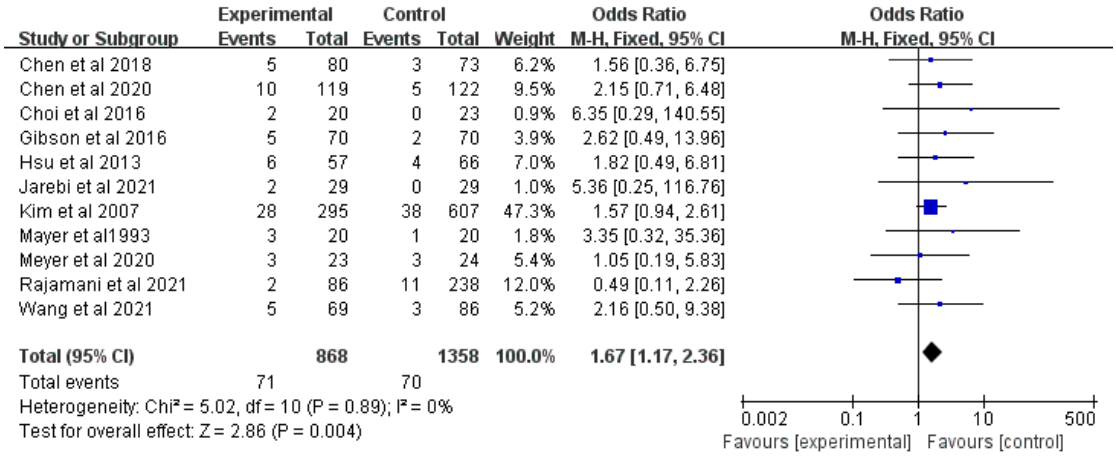


Figure S12a.Meta-analysis for revision rate between PTED and MED

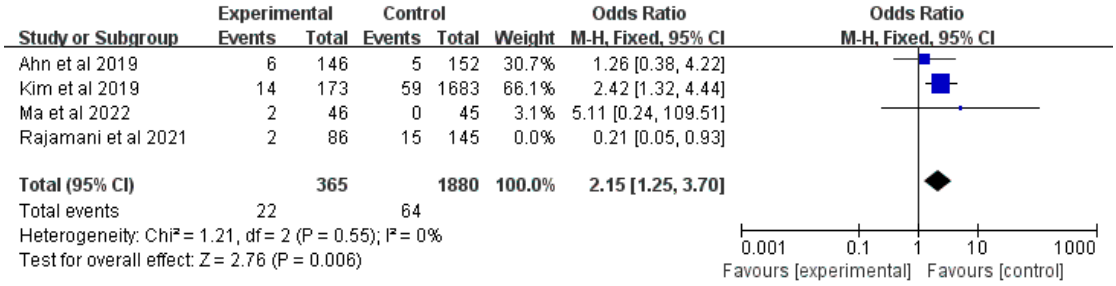


Figure S12b.Meta-analysis for revision rate between PTED and OD

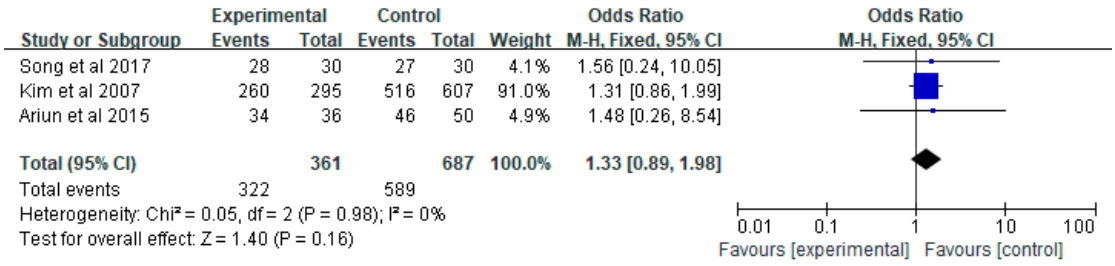


Figure S13a.Meta-analysis for excellent rate of operation between PTED and MED

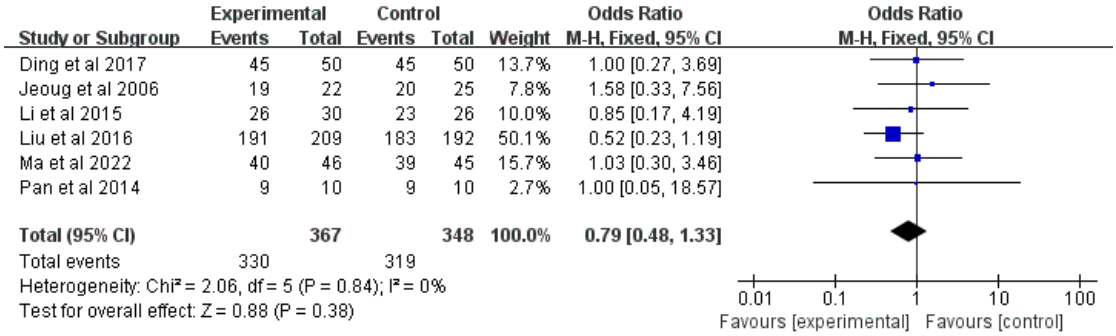
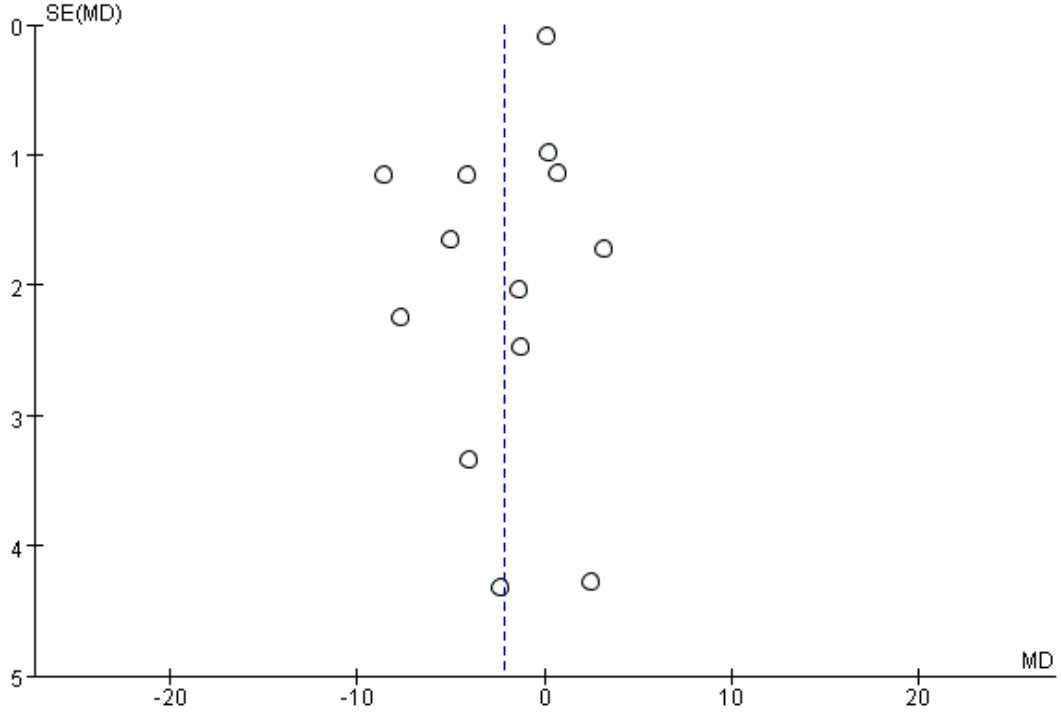


Figure S13b.Meta-analysis for excellent rate of operation between PTED and OD

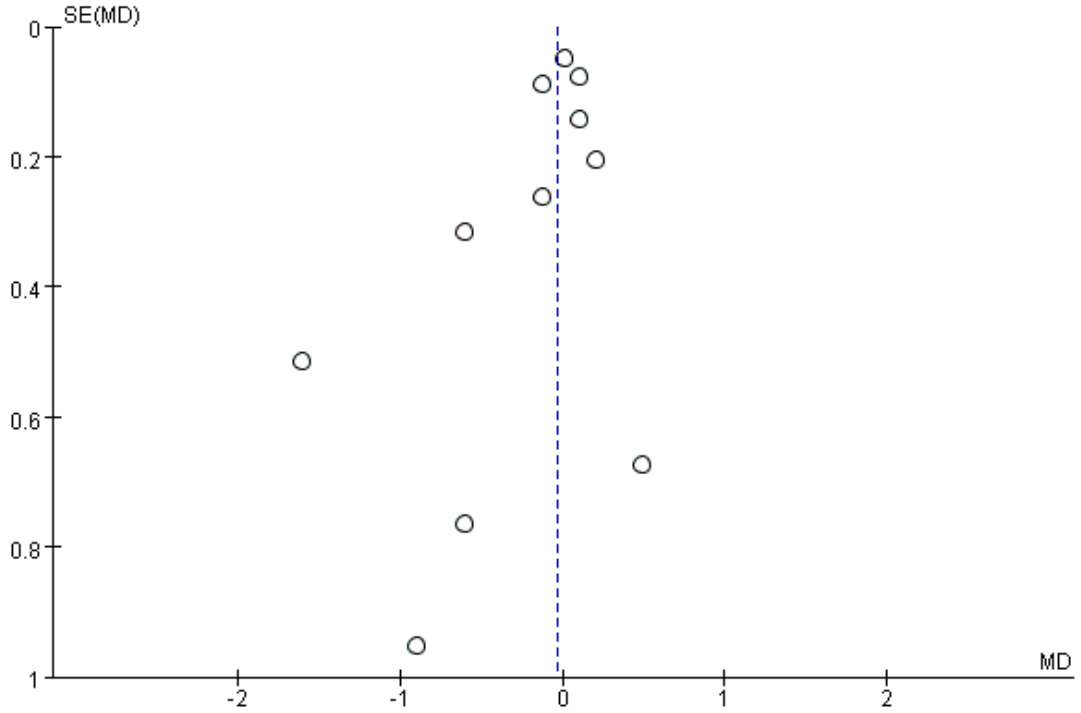
Supplementary Figure S2 Publication bias

1.PTED VS MED（A-H）：

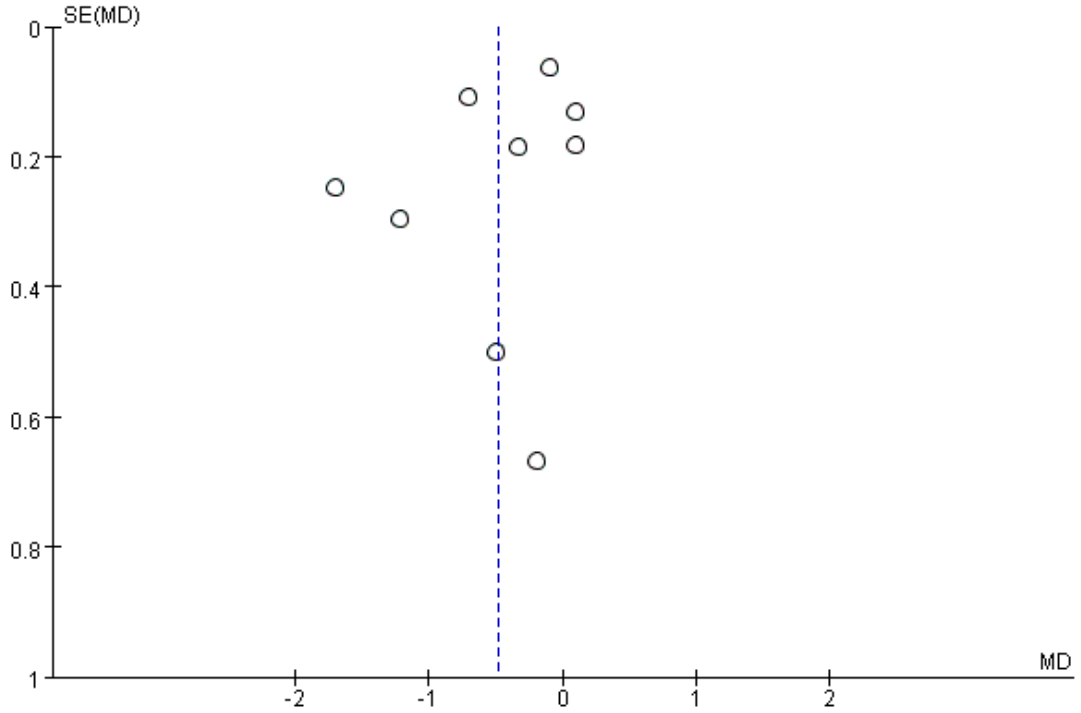
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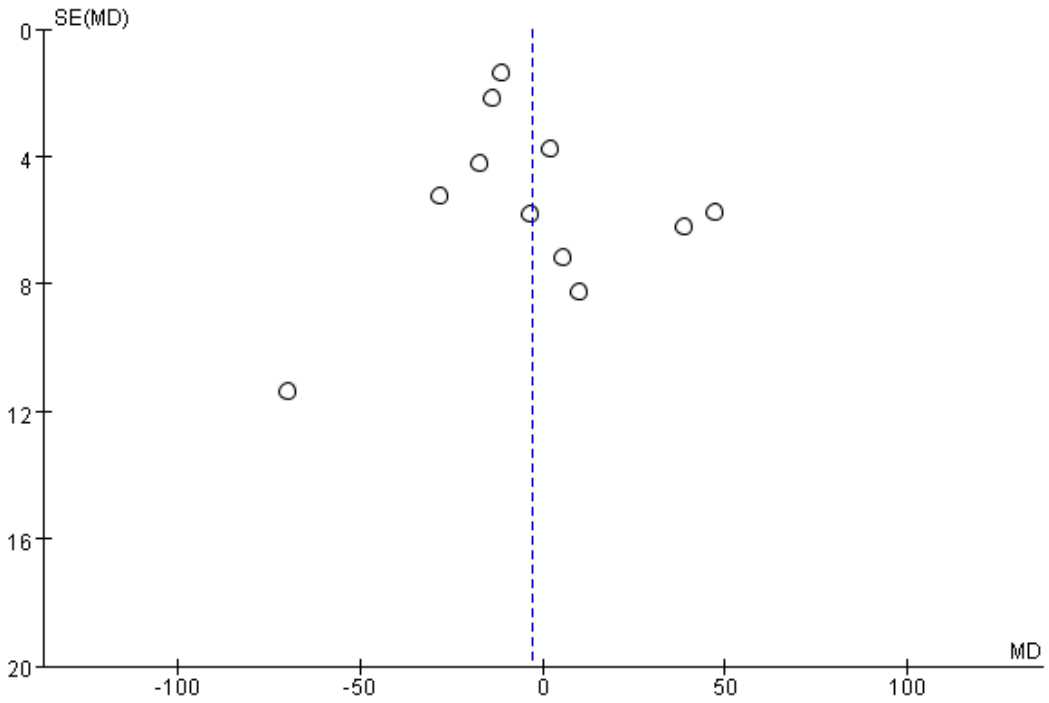
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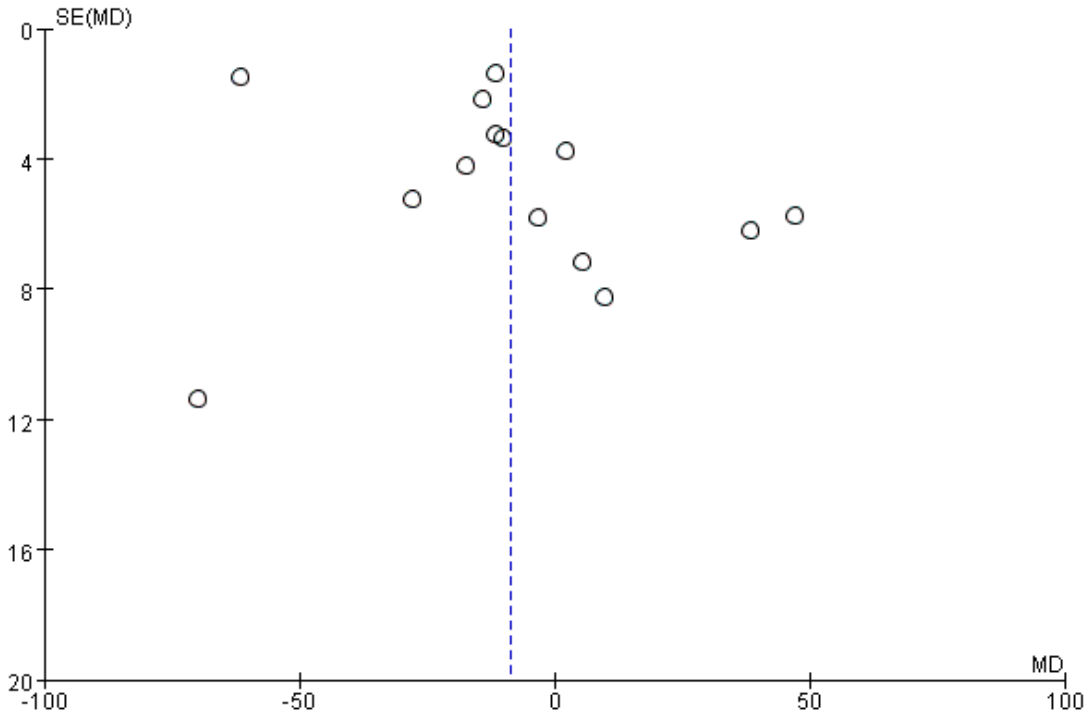
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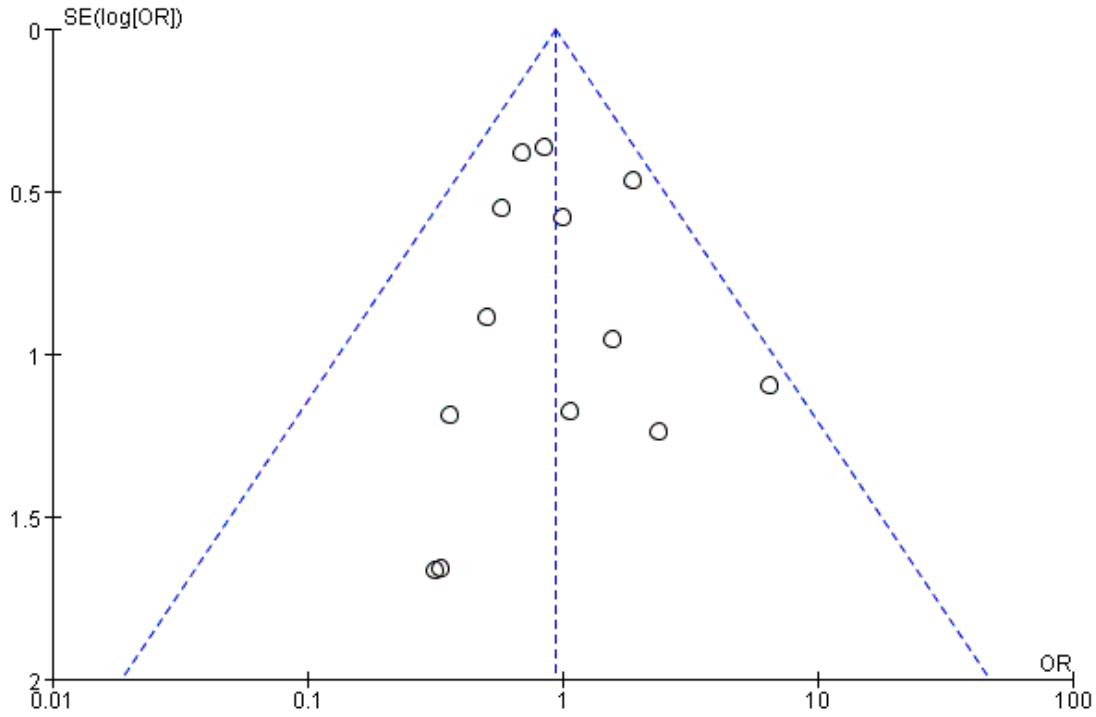
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MD

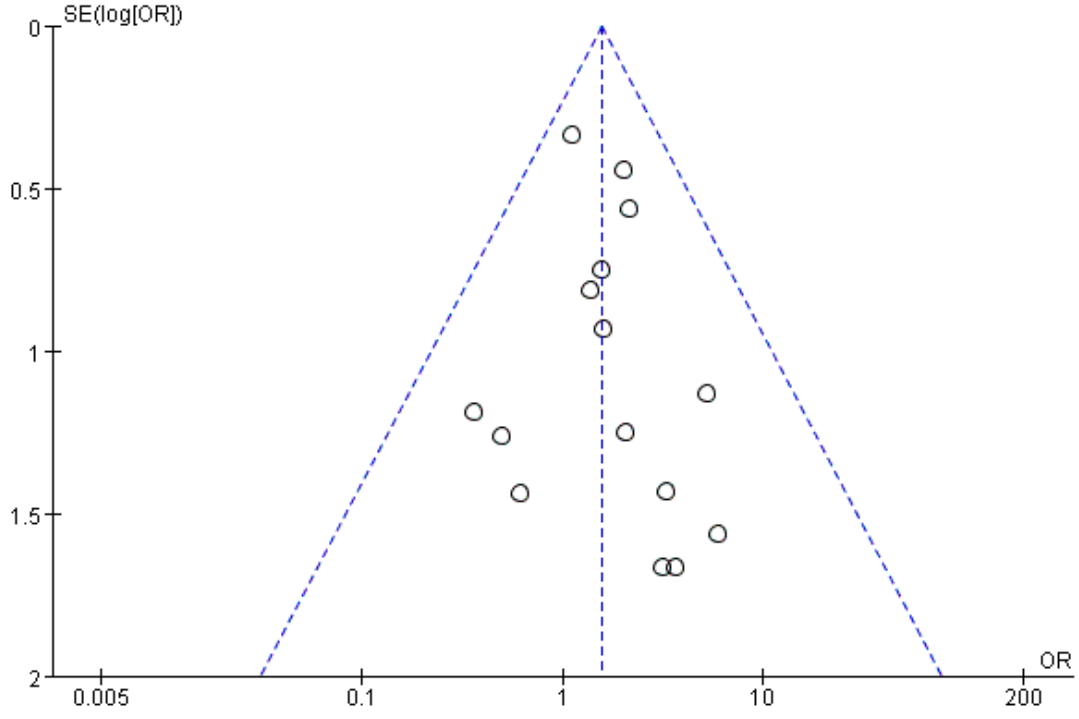
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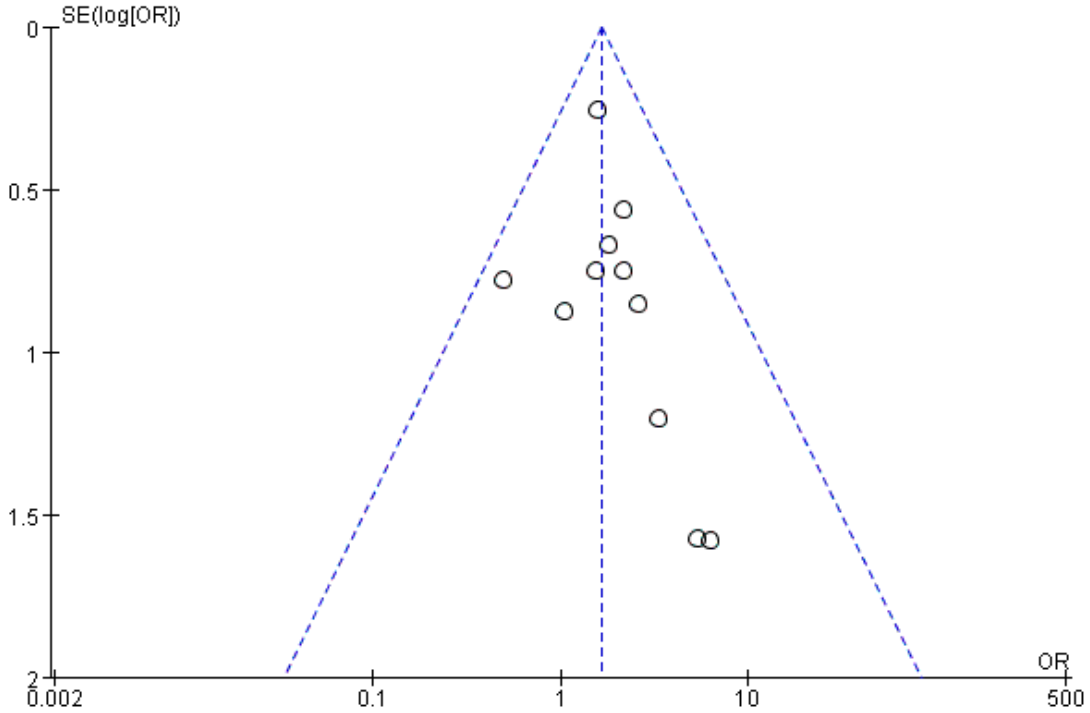
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0.1
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OR

G


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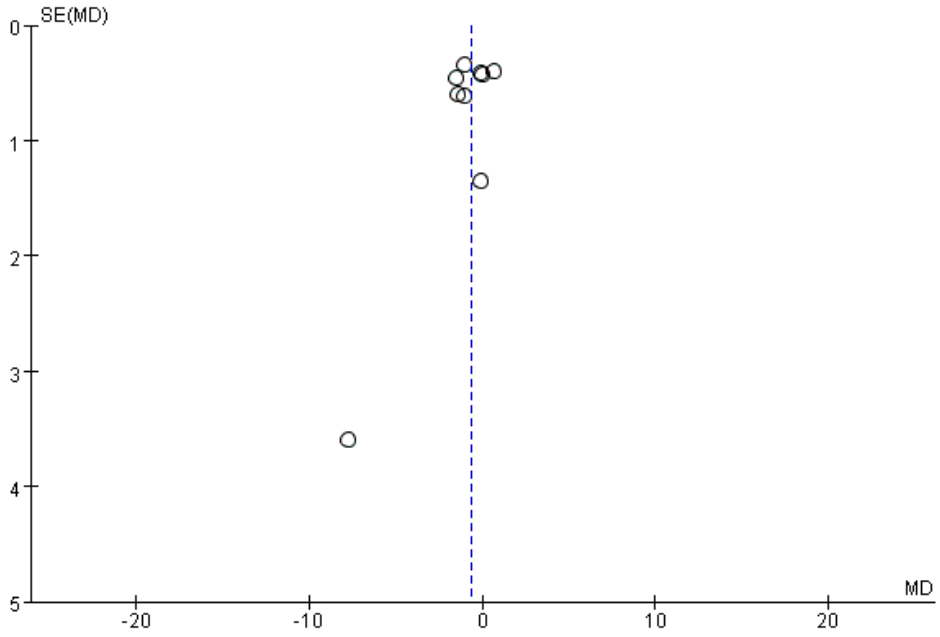
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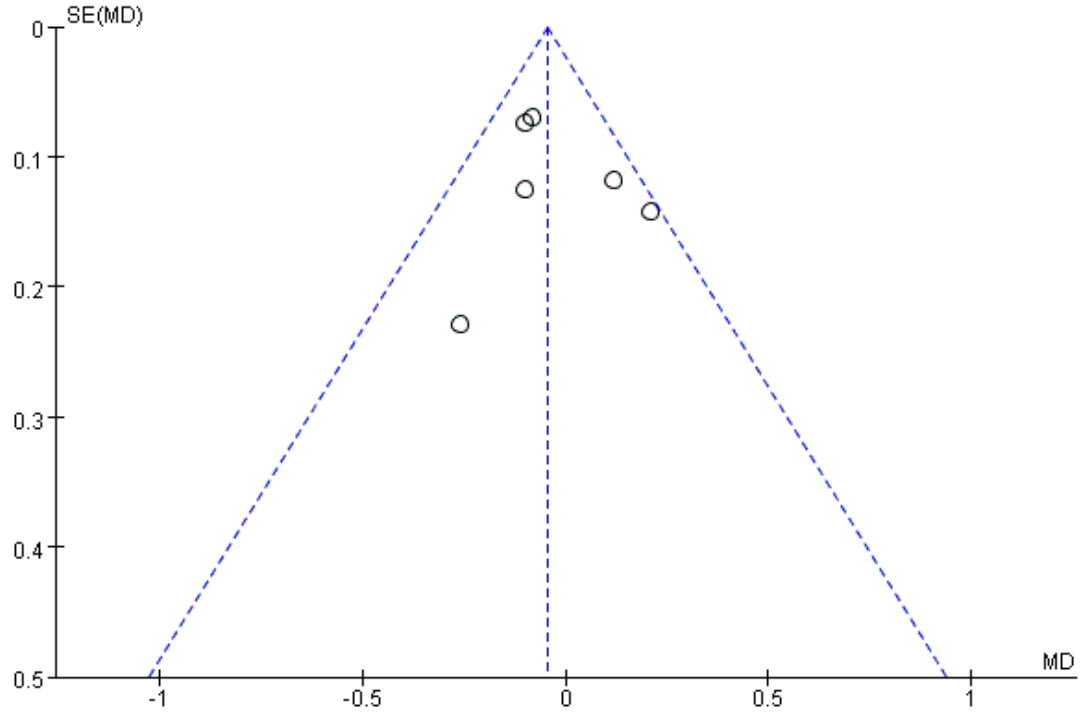
A：ODI index　　B：VAS leg pain score　　C：VAS waist/low back pain score　　D：The average operation time　　E：Average hospitalization time　　F：The incidence of postoperative complications　　G：Postoperative recurrence and residual rate　　H：　Rate of revision surgery

2. PTED VS OD (A-I):

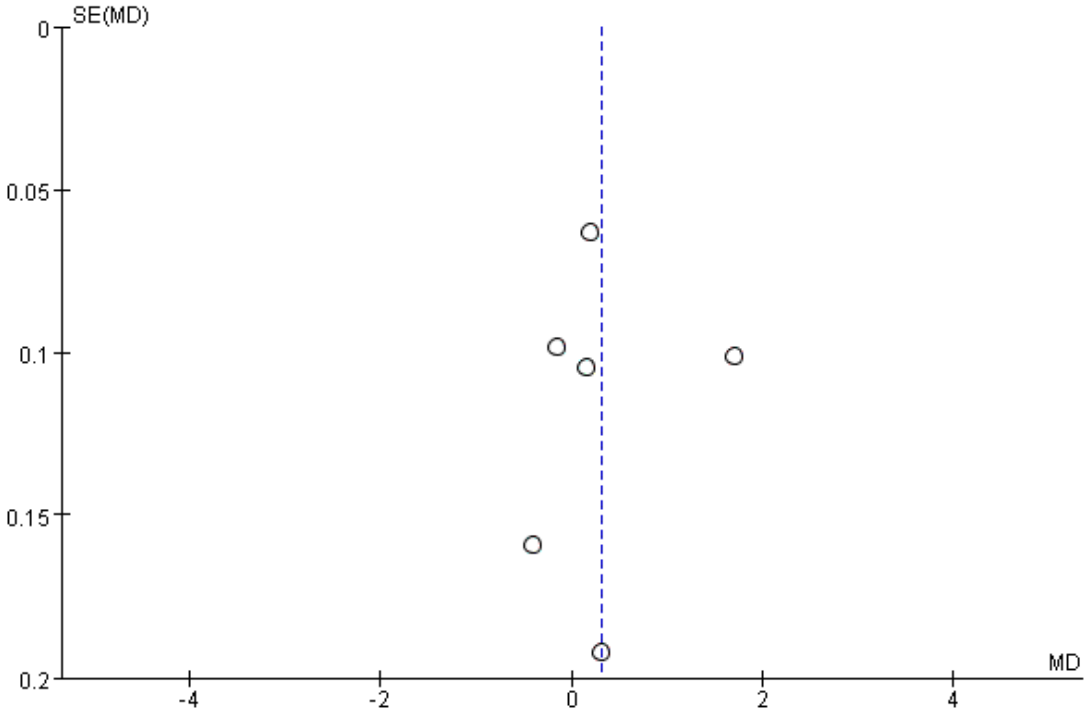
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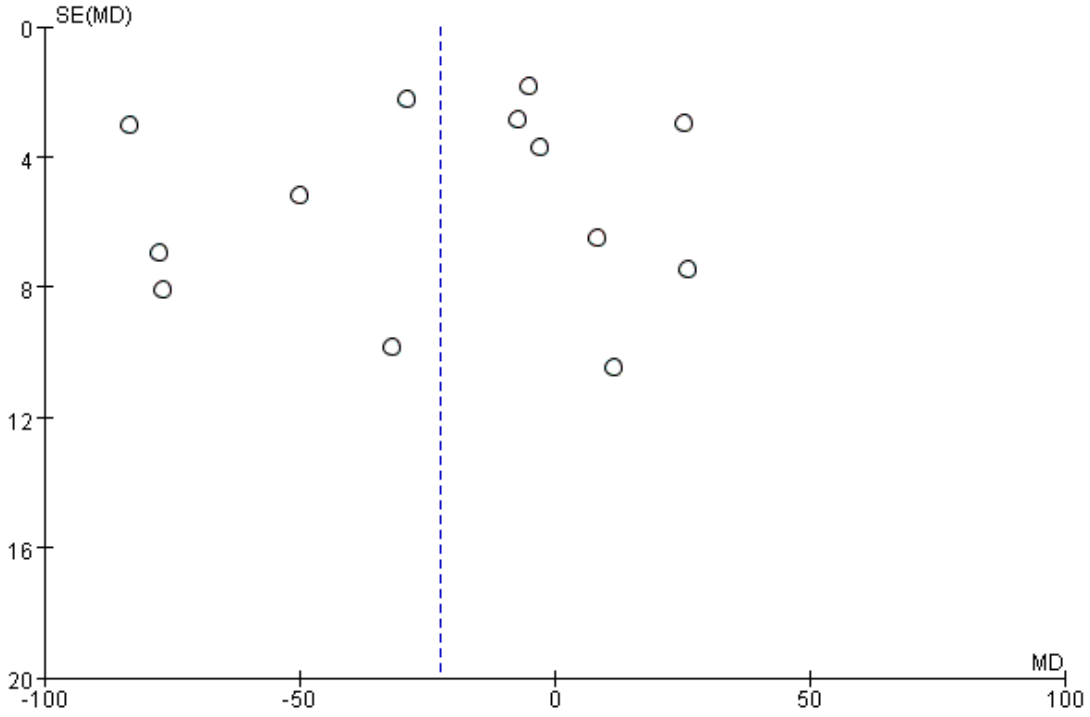
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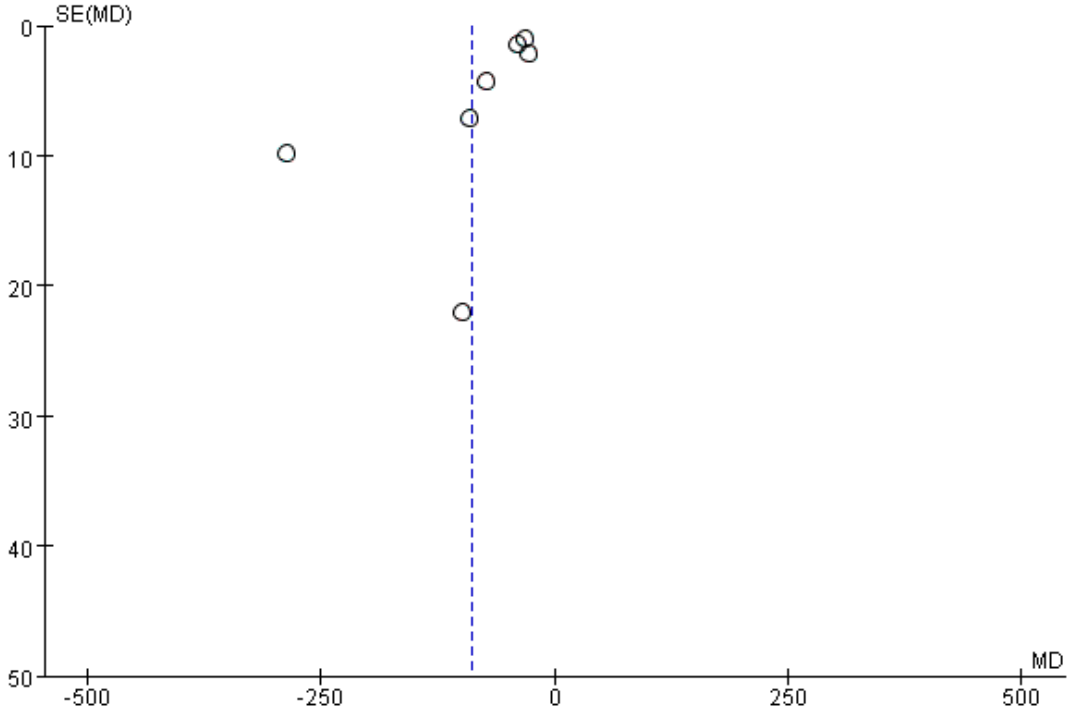
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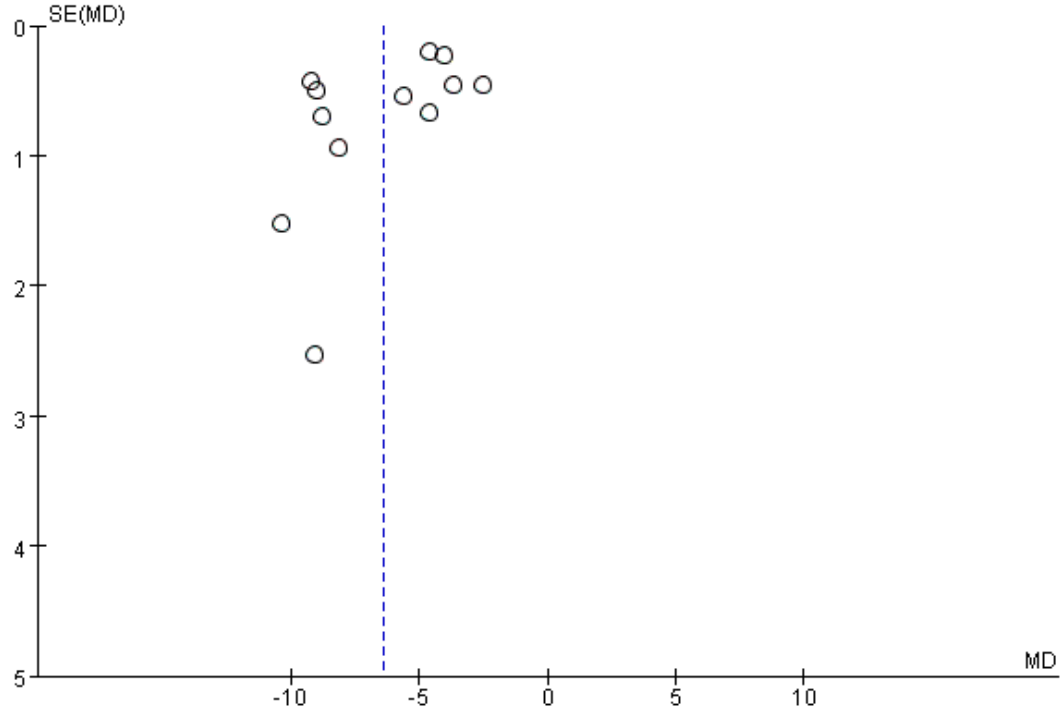
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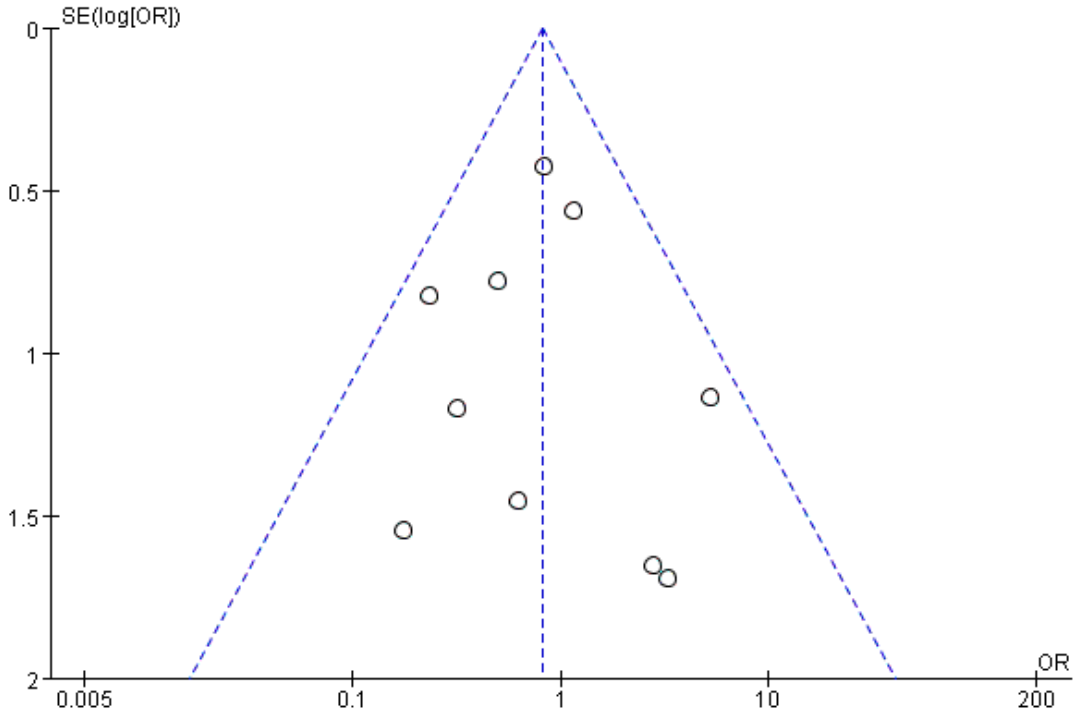
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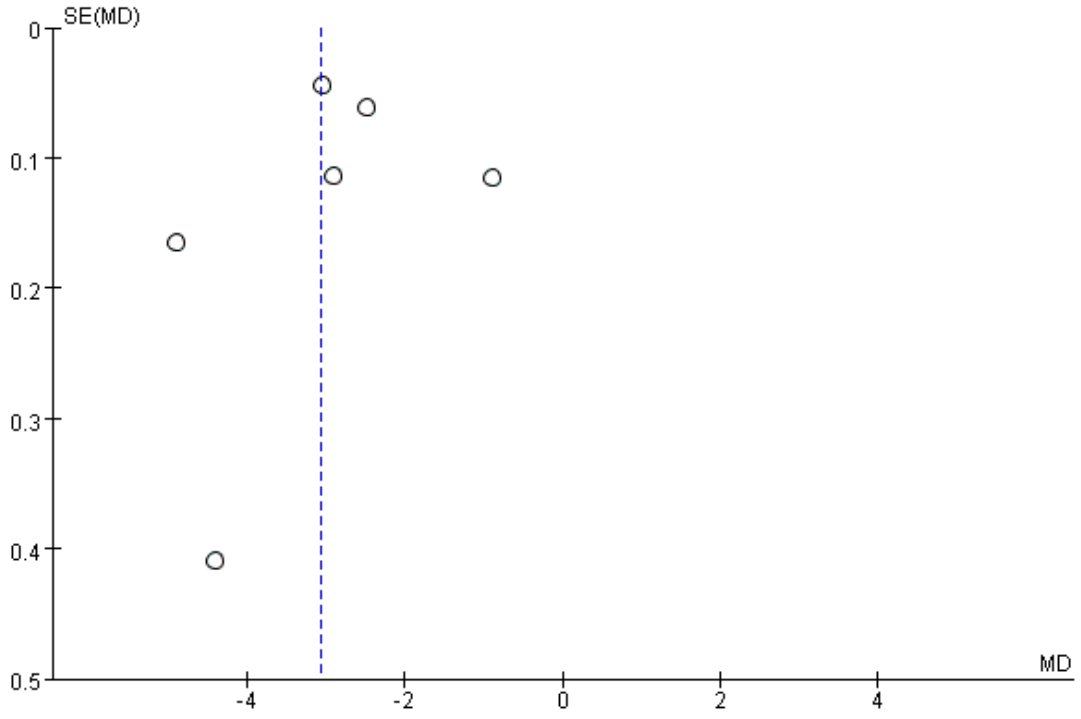
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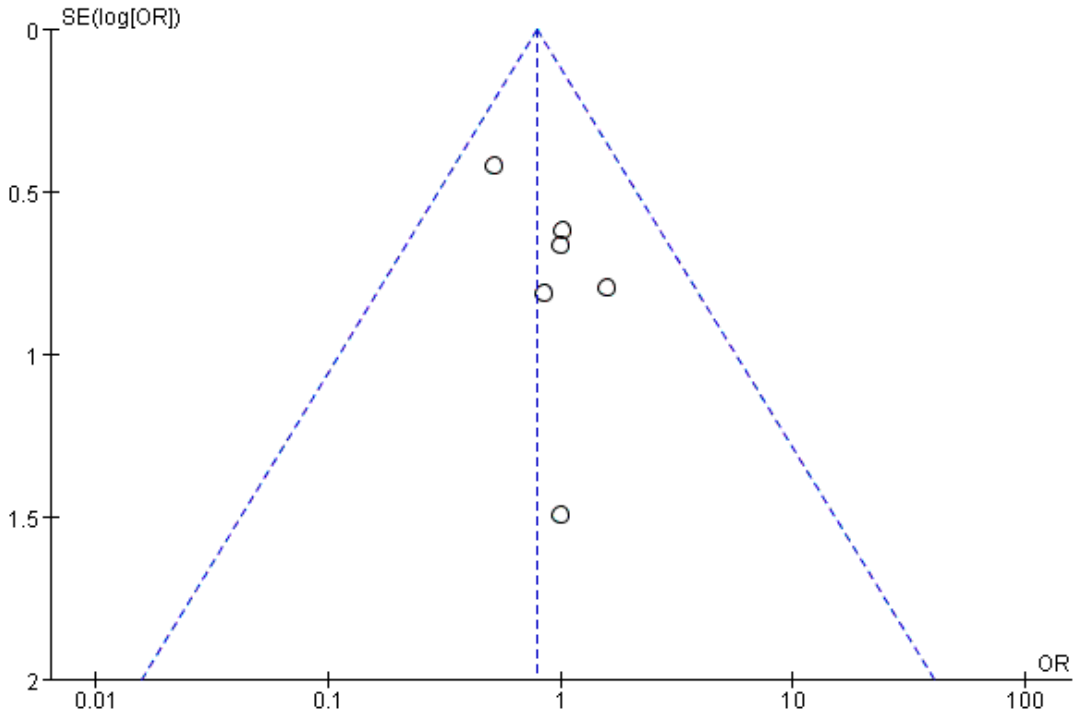
G



H



I



A：ODI index B：VAS leg pain score C: comprehensive VAS score D：The average operation time E：Intraoperatie blood loss F：Average hospitalization time G: The incidence of postoperative complications H：size of the incision I: rates of successful operation