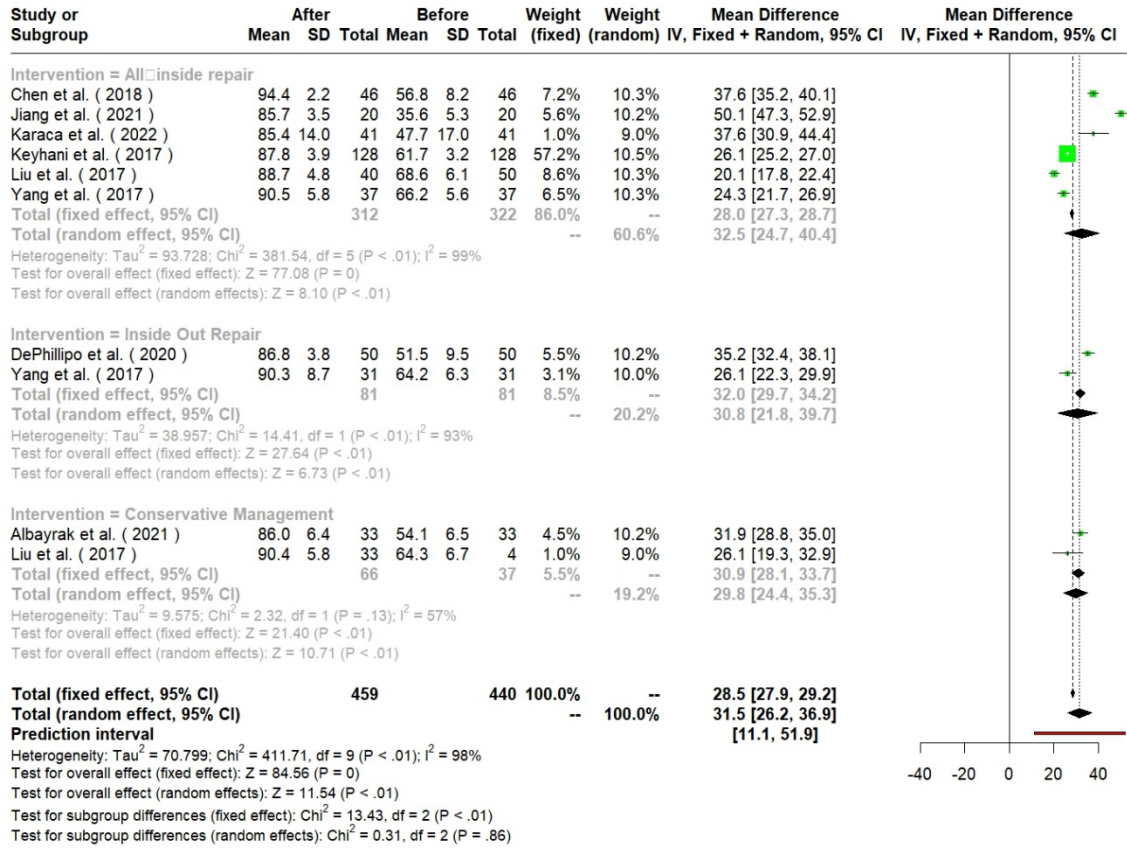


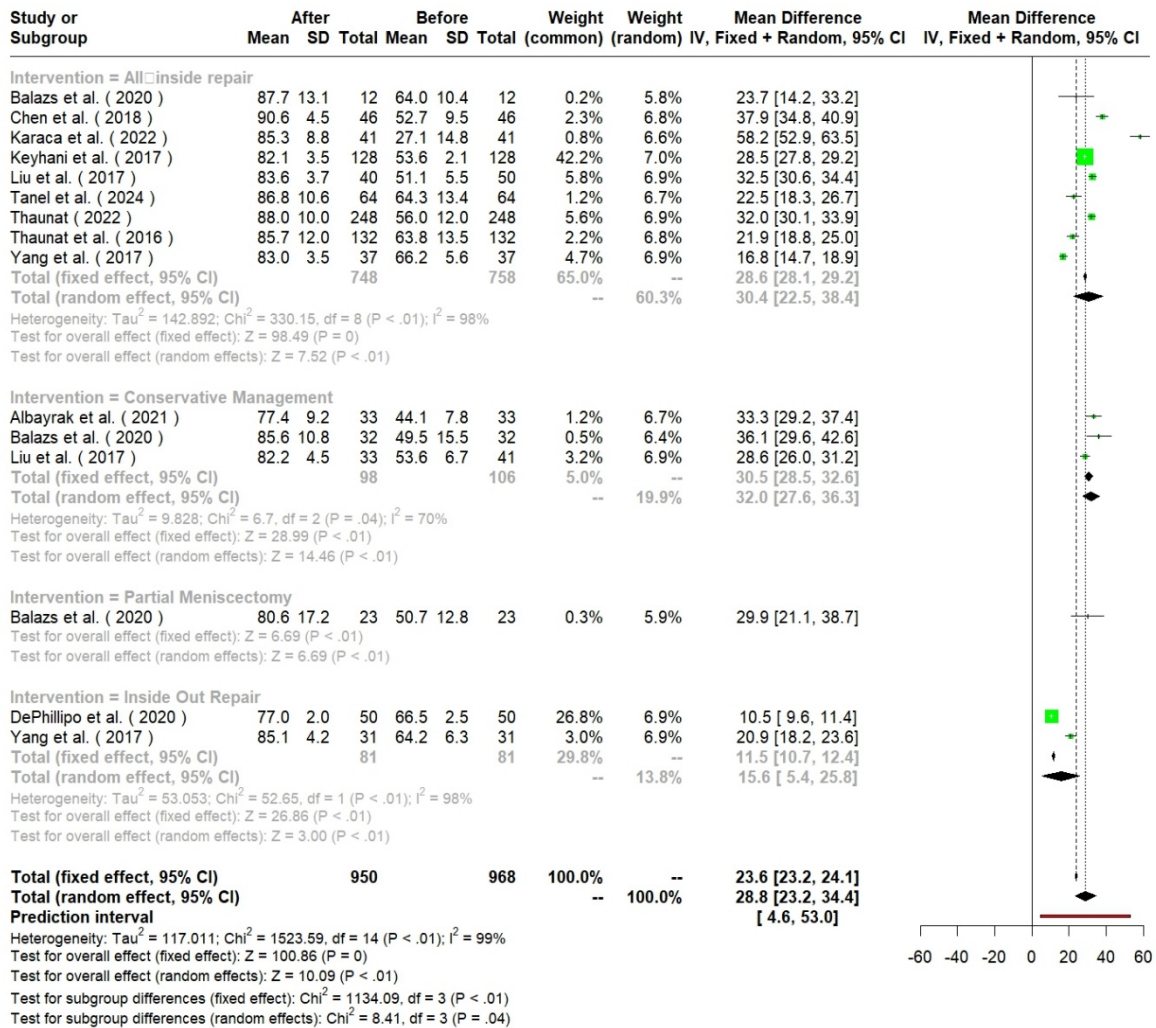
## Supplementary materials

**Figure 1.** The pooled Lysholm scores among different subgroups



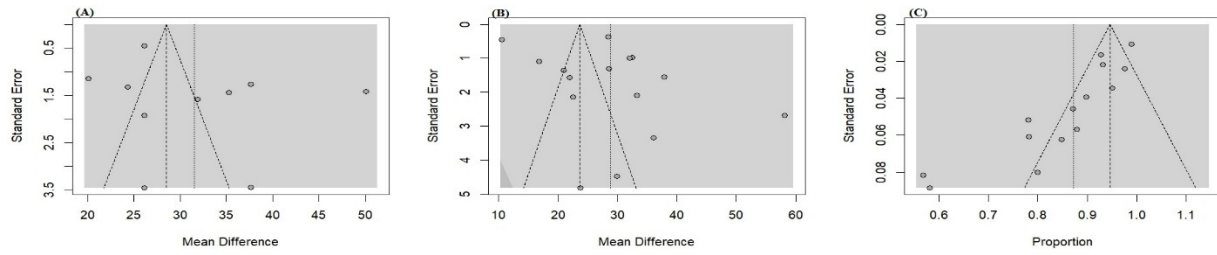
Pooled mean difference (MD) in Lysholm score (postoperative minus preoperative) for each study and overall, stratified by treatment subgroup (e.g., all-inside repair [AIR], inside-out repair [IO], partial meniscectomy [PM], and conservative management [CM]) using a random-effects model. Squares represent study effects (size proportional to weight) and diamonds represent pooled effects; horizontal lines indicate 95% confidence intervals (CI).

**Figure 2.** The pooled IKDC scores among different subgroups



Pooled mean difference (MD) in IKDC score (postoperative minus preoperative) for each study and overall, stratified by treatment subgroup (AIR, IO, PM, CM) using a random-effects model. Squares indicate individual study estimates (weighted by precision) and diamonds indicate pooled estimates; horizontal lines show 95% CI.

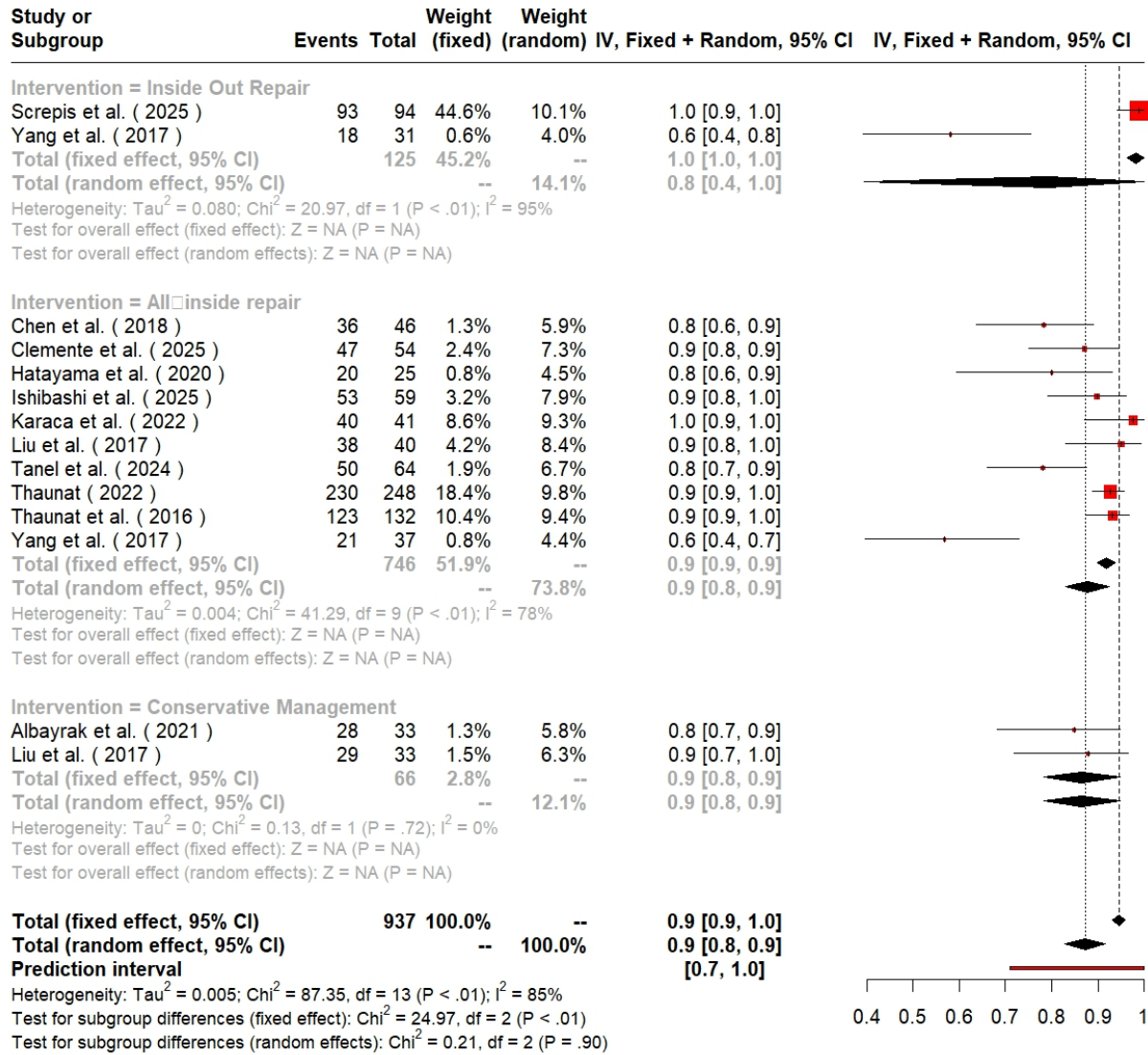
**Figure 3.** The funnel plots assessing publication



(A) Lysholm Score; (B) IKDC Improvement; (C) Succus Rate.

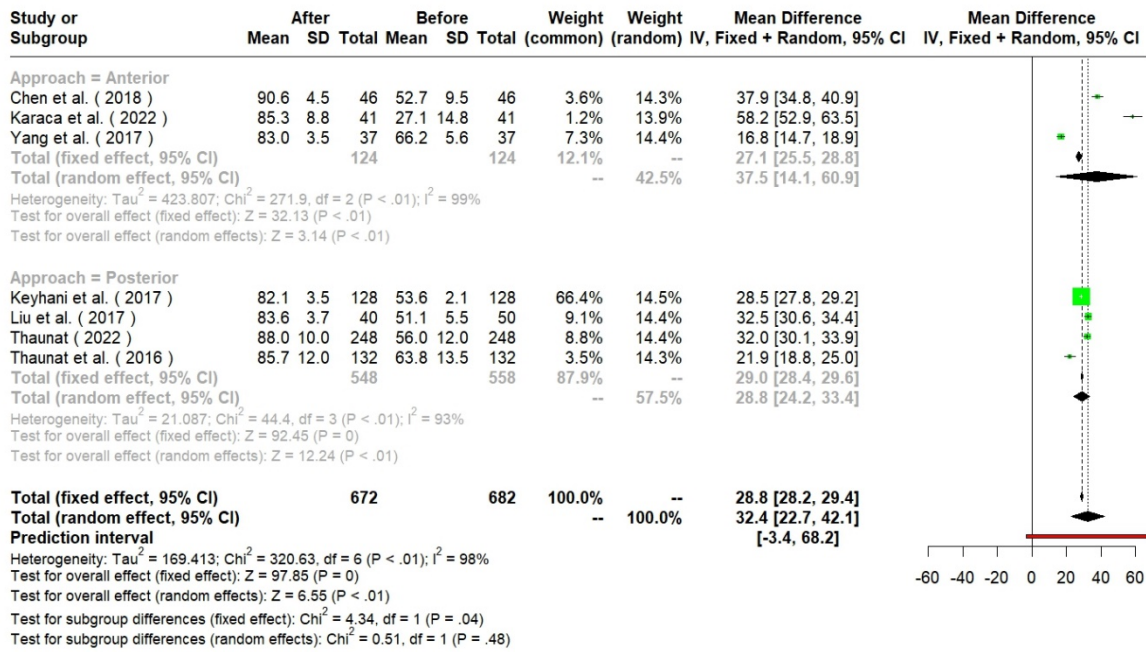
Funnel plots of effect size versus standard error for (A) Lysholm score improvement, (B) IKDC score improvement, and (C) treatment success rate. Visual symmetry was used to assess potential publication bias/small-study effects.

**Figure 4.** The pooled IKDC scores among different subgroups



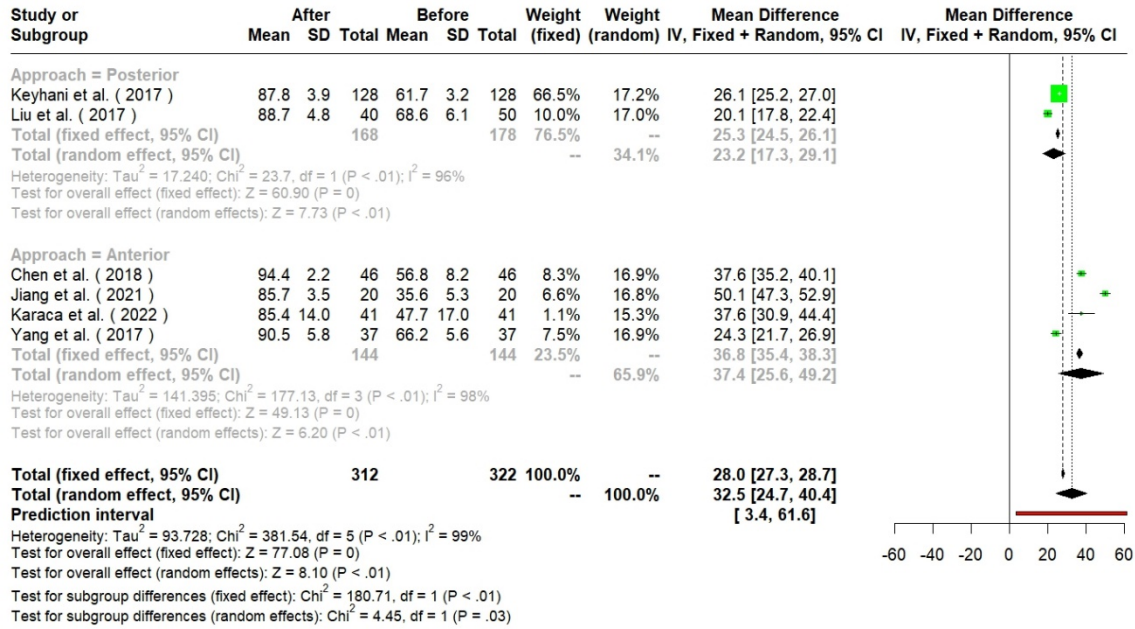
Study-specific success proportions and the pooled overall success estimate calculated with a random-effects model. Points/squares represent individual study proportions (weighted by precision) and the diamond represents the pooled proportion; horizontal lines indicate 95% CI. Success definitions follow each study's criteria as reported.

**Figure 5.** The pooled IKDC scores among posterior versus anterior subgroups



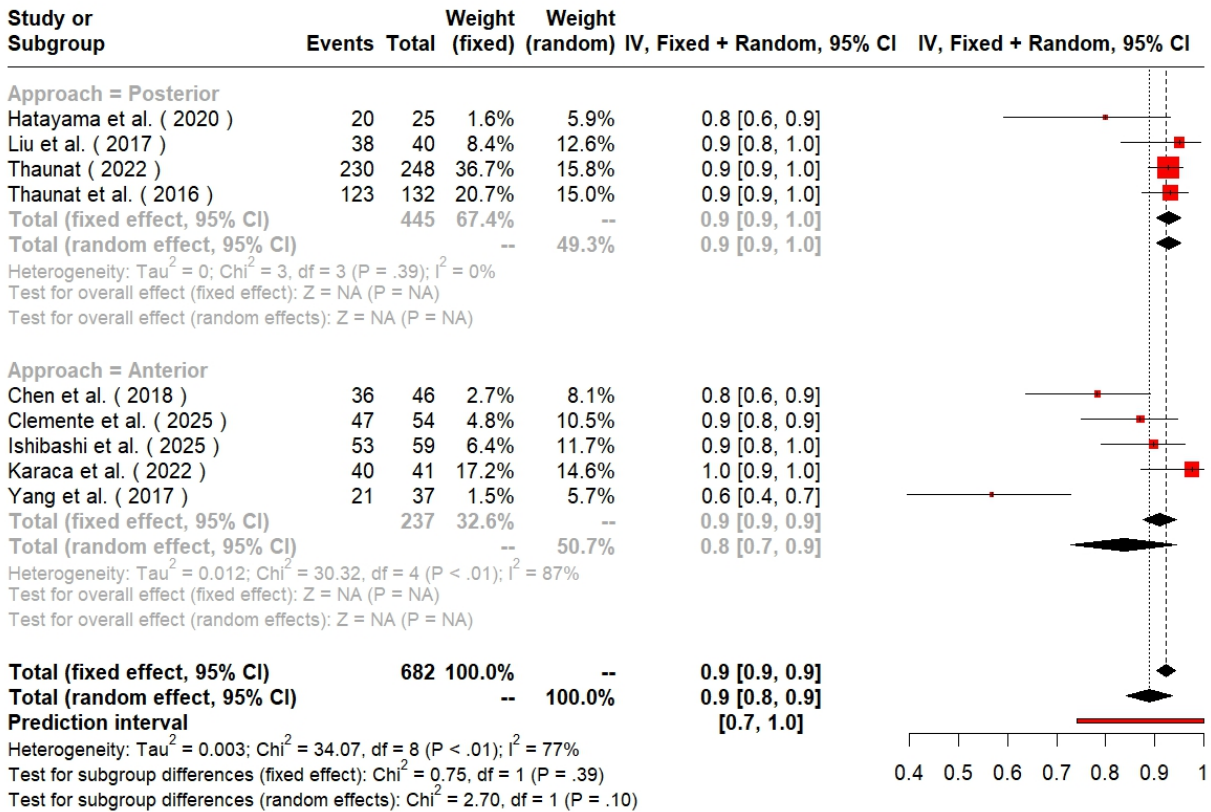
Subgroup meta-analysis of IKDC mean difference (postoperative minus preoperative) stratified by surgical approach (posterior vs anterior) for all-inside repair studies using a random-effects model. Diamonds represent subgroup and overall pooled effects; 95% CI shown by horizontal lines.

**Figure 6.** The pooled Lysholm scores among posterior versus anterior subgroups



Subgroup meta-analysis of Lysholm mean difference (postoperative minus preoperative) stratified by approach (posterior vs anterior) among all-  
inside repair studies using a random-effects model. Diamonds show pooled effects; 95% CI shown by horizontal lines.

**Figure 7.** The pooled success rate among posterior versus anterior subgroups



Subgroup meta-analysis of clinical success proportions stratified by approach (posterior vs anterior) among all-inside repair studies using a random-effects model. Diamonds represent pooled subgroup and overall success rates; horizontal lines indicate 95% CI.





