

TABLES AND FIGURE LEGENDS

TABLES

TABLE 1. Basic characteristics of the included studies.

TABLE 2. Newcastle-Ottawa Scale for bias risk assessment of retrospective and prospective **nonrandomized** studies.

TABLE 3. Meta-analysis of main endpoints.

TABLE 4. Meta-analysis of endpoints for cancers.

TABLE 5. Sensitivity analysis of endpoints of interests.

FIGURE LEGENDS

FIGURE 1. Flow diagram of study selection.

FIGURE 2. Risk of bias of randomized controlled trials assessed with the Cochrane Risk of Bias tool.

FIGURE 3. Forest plot of oncological outcomes following natural orifice specimen extraction (NOSE) compared with conventional laparoscopic (CL) surgery.

FIGURE 4. Forest plot of surgical outcomes following NOSE compared with CL.

FIGURE 5. Forest plot of other outcomes following NOSE compared with CL.

FIGURE 6. Funnel plot of publication bias based on total perioperative complications (Begg's test, $P=0.373$).

