

Radical prostatectomy after previous transurethral resection of the prostate: a systematic review and meta-analysis

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Background: The influence of a previous transurethral resection of the prostate (TURP) on the outcomes of radical prostatectomy (RP) is still controversial. Therefore, we performed a meta-analysis to evaluate the perioperative, functional and oncological outcomes of RP with or without a previous TURP.

Methods: We conducted a computerized literature search of PubMed, Embase, and the Cochrane Library and included 15 retrospective studies evaluating RPs with or without a previous TURP in this meta-analysis. **Results:** Fifteen studies, including 6,840 cases, were analyzed. RP after a previous TURP were related to smaller prostate volumes (WMD: -6.93 cm³; 95% CI, -10.89 to -2.97; P<0.001), lower preoperative prostate-specific antigen (PSA) levels (WMD: -1.51; 95% CI, -2.49 to -0.53; P=0.002), longer operative times (WMD: 13.22 min; 95% CI, 4.55 to 21.89 min; P=0.003), more blood loss (WMD: 55.38 mL; 95% CI, 12.35 to 98.41 mL; P=0.01), higher overall complication rates (OR =1.98; 95% CI, 1.27 to 3.08; P=0.002), longer hospital stays (WMD: 1.16 days; 95% CI, 0.65 to 1.67; P<0.001), longer duration of catheter (WMD: 0.60 days; 95% CI, 0.56 to 0.64; P<0.001), higher positive surgical margin rates (OR =1.30; 95% CI, 1.09 to 1.55; P=0.004), lower complete continence rates at 3 months (OR =0.67; 95% CI, 0.56 to 0.81; P<0.001), 6 months (OR =0.52; 95% CI, 0.31 to 0.88; P=0.01), 12 months (OR =0.59; 95% CI, 0.46 to 0.74; P<0.001), and lower potency rates at 12 months (OR =0.62; 95% CI, 0.51 to 0.77; P<0.001). Subgroup analysis indicated that open RP after previous TURP could achieve better outcomes.

Conclusions: RP after a previous TURP leads to worse perioperative, oncological, and functional outcomes. For these patients an open procedure is recommended. Due to the low number of studies and known biases, further large-scale studies are needed to support this result.

Keywords: Prostatectomy; transurethral resection of the prostate (TURP); prostatic neoplasms; margins of excision

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Introduction

Prostate carcinoma is one of the leading causes of cancerrelated deaths worldwide among older males. In 2017, approximately 164,690 American men were diagnosed with prostate carcinoma, and 29,430 will likely die from it, causing it to be a leading global health problem (1,2). It is generally considered that treatment with radical prostatectomy (RP) should be recommended for locally advanced prostate carcinomas (3,4). However, many older men undergo RP for locally advanced prostate carcinoma having had a previous transurethral resection of the prostate (TURP) (5), a standard surgical treatment for benign prostatic hyperplasia (BPH) (6). Some studies have shown that RP after a previous TURP was related to an increase in intraoperative

and postoperative morbidity (7), while other studies have indicated that a RP could be safely conducted after a TURP with uncompromising results (8,9). As such, the influence of a previous TURP on the outcomes of a RP is still controversial. Therefore, we performed this meta-analysis to evaluate the perioperative, functional, and oncological outcomes of a RP with or without a previous TURP.

Methods

This systematic review and meta-analysis was completed in line with the Preferred Reporting Items for Systematic Review and Meta-Analysis (PRISMA) guidelines (10) and registered on PROSPERO (http://www.crd.york.ac.uk/ PROSPERO ID: CRD42019129277).

Search strategy

We conducted a computerized literature search of PubMed, Embase, and the Cochrane Library in February 2019. The MeSH terms and their combinations were searched in [Title/Abstract] as follows: Prostatic Neoplasms, transurethral resection of prostate, and prostatectomy. We made no limitations on the publication status, but only included studies which were reported in English. If two or more studies reported on the same population, we only included the most recent.

Inclusion and exclusion criteria

Inclusion criteria: (I) studies comparing RP with or without a TURP in full text; (II) studies containing detailed information of baseline characteristics, perioperative outcomes, oncological outcomes, and functional outcomes; and (III) studies containing adequate information on estimating relative risk (RR) or hazard ratio (HR) by 95% confidence interval (95% CI).

Exclusion criteria: (I) studies which reported mixed previous prostate surgery not confined to a transurethral resection of prostate; (II) studies not reported in English; and (III) letters to the editor, editorials, reviews, conference abstracts, case reports, and animal experimental studies.

Data extraction and outcomes of interest

Two reviewers assessed the titles and abstracts independently of all the studies, and any disagreements, were discussed and determined by a third senior reviewer. The outcomes contained four parts: baseline features, perioperative outcomes, oncological outcomes, and functional outcomes. Baseline features contained: age, prostate volumes, preoperative prostate-specific antigen (PSA) levels, body mass index (BMI), biopsy Gleason scores, and clinical stage \geq T3. Perioperative outcomes contained: operative times, estimated blood loss (EBL), blood transfusion rates, complication rates, hospital stay, and duration of catheter. Oncological outcomes contained: pathologic stage \geq T3, pathologic Gleason scores =7, pathologic Gleason scores >7, and positive surgical margin rates. Functional outcomes included: Complete continence rates at 3, 6, and 12 months and potency rates at 12 months. We defined a RP after a previous TURP as the TURP group and a RP without a previous TURP as the non-TURP group. Most studies defined 0 or 1 safety pads used per day as complete continence (5,8,11-15), except for Teber et al. and Yang et al. who defined 0 or 1 pads used per day as continence (16,17), and Pastore et al. who defined an ICIQ score of <6 as continence (18). Five studies used the International Index of Erectile Function (IIEF) questionnaire and the ability to have intercourse, regardless of whether medication was used or not, to assess erectile function (5,8,11,12,19). Two studies assessed erectile function only on the ability to have intercourse, regardless of whether medication was used or not (13,16). Only one study assessed erectile function through the ability to have intercourse without the use of medication (14).

Quality assessment and data synthesis

We evaluated the methodological quality of all the retrospective studies based on the Newcastle-Ottawa Scale (NOS) as recommended by the Cochrane Collaboration (20). A 0 to 9 score system was applied to judge each study, and a score of 7 to 9 was considered high quality (21). Ten of the 15 studies were considered high quality.

Review Manager 5.3 (Cochrane Collaboration, Oxford, UK) was used to conduct this meta-analysis. For continuous variables, such as operative time, we applied a weighted mean difference (WMD) for comparison. While for dichotomous variables, such as complication rates, an odds ratio (OR) was applied. Both comparisons were presented with 95% confidence intervals (CIs). For any studies reporting continuous data by means and range values, we used statistical algorithms to calculate the standard deviations (22). Statistical heterogeneity was evaluated using a chi-square test with a significance level set at P<0.10. The

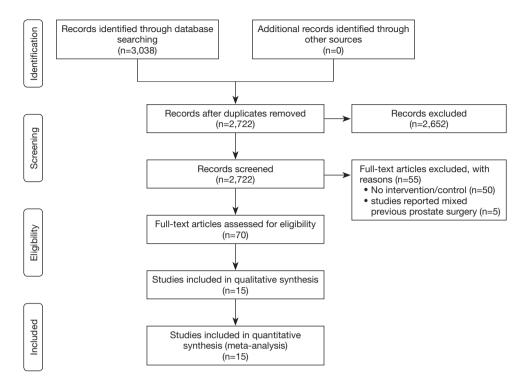


Figure 1 Flow diagram of studies identified, included, and excluded. From: Moher D, Liberati A, Tetzlaff J, *et al.* Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. PLoS Med 2009;6:e1000097.

heterogeneity was quantified by the I² statistic. If P>0.10 and I² \leq 50%, heterogeneity was defined as low and a fixedeffects model was applied, alternatively, a random-effects model was applied (23). We conducted subgroup analyses to compare laparoscopic radical prostatectomy (LRP), robotic assisted laparoscopic radical prostatectomy (RARP), open prostatectomy (OP), and a mixed procedure of OP and RARP. Potential publication biases were detected using a Begg funnel plot (24).

Results

Characteristics of the included studies

Fifteen studies, including 6,840 cases (1,121 cases for the TURP group and 5,719 cases for the non-TURP group), met the inclusion criteria and were included in the analysis (*Figure 1*) (5,7,8,11-19,25-27). Study characteristics are summarized in *Table 1*. All 15 studies were retrospective case-controlled studies, and included 6 studies conducted by LRP (14-18,25), five studies conducted by RARP (7,8,12,13,27), three studies conducted by OP (11,19,26), and one study conducted by mixed procedure (5). The

matching factors between the two groups were age, BMI, preoperative PSA levels, biopsy Gleason scores, prostate volumes, pathologic stage, and use of nerve sparing techniques.

Baseline features

The pooled data indicated that baseline features of age showed no significant differences between the two groups (*Figure 2A*). However, significantly lower prostate volumes (WMD: -6.93 mL; 95% CI, -10.89 to -2.97; P<0.001) and lower preoperative PSA levels (WMD: -1.51; 95% CI, -2.49 to -0.53; P=0.002) were found in the TURP group. Due to the large heterogeneities, random-effect models were applied (*Figure 2B,C*). Other baseline features including BMI, biopsy Gleason scores, and a clinical stage sparing d no significant differences (*Figure 3*).

Perioperative outcomes

Eleven studies, including 3,697 patients, reported on operative times and demonstrated significantly longer times in the TURP group (WMD: 13.22 min; 95% CI,

| Cturdu / | Level of | Decise | Mathad | Pat | tients (n) | Matabiag | Follow-up (months): | Quality agara |
|------------------|----------|--------|--------|------|------------|---------------------|---------------------|---------------|
| Study | evidence | Design | Method | TURP | Non-TURP | - Matching | TURP/non-TURP1 | Quality score |
| Fragkoulis | 3b | R | OP | 35 | 35 | 1, 2, 3, 4, 5, 6, 7 | 12/12 | 8 |
| Gupta | 3b | R | RARP | 26 | 132 | 2, 4, 5, 6 | 15.3/15.3 | 6 |
| Hampton | 3b | R | RARP | 51 | 102 | 1, 2, 3, 4, 6, 7 | 0/0 | 7 |
| Hung | 3b | R | RARP | 16 | 184 | 1, 2, 3, 4, 6, 7 | 12/12 | 7 |
| Jaffe | 3b | R | LRP | 119 | 119 | 3, 4, 5, 6 | 0/0 | 6 |
| Menard | 3b | R | LRP | 46 | 594 | 3, 4, 5 | 24/24 | 6 |
| Palisaar | 3b | R | OP | 62 | 62 | 1, 2, 3, 4, 5, 6, 7 | 12/12 | 8 |
| Paulson | 3b | R | OP | 33 | 106 | 4 | 120/120 | 5 |
| Pompe | 3b | R | Mixed | 470 | 1,410 | 1, 3, 4, 5, 6, 7 | 12/12 | 7 |
| Ramirez Backhaus | 3b | R | LRP | 19 | 136 | 1, 2, 3, 4, 5, 6, 7 | 15/15 | 7 |
| Su | 3b | R | RARP | 49 | 2,644 | 2, 3, 4 | 12/12 | 6 |
| Teber | 3b | R | LRP | 55 | 55 | 1, 2, 3, 4, 5, 6, 7 | 24/24 | 7 |
| Yang | 3b | R | LRP | 35 | 35 | 1, 2, 3, 4, 6 | 57.6/57.6 | 7 |
| Zugor | 3b | R | RARP | 80 | 80 | 1, 2, 3, 4, 5 | 13.5/13.5 | 7 |
| Pastore | 3b | R | LRP | 25 | 25 | 1, 2, 4, 6 | 6/6 | 7 |

Table 1 Characteristics of included studies

TURP, radical prostatectomy after previous transurethral resection of the prostate; non-TURP, radical prostatectomy without previous transurethral resection of the prostate; R, retrospective; RARP, robotically assisted laparoscopic prostatectomy; LRP, laparoscopic prostatectomy; OP, open radical prostatectomy; Mixed, a mixed procedure of open radical prostatectomy and robotically assisted laparoscopic prostatectomy. Matching: 1= age; 2= body mass index (BMI); 3= prostate specific antigen (PSA); 4= Gleason score; 5= prostate volume; 6= pathological staging; 7= nerve sparing technique.

4.55 to 21.89 min; P=0.003). A random-effects model was applied (I²=83%; P<0.001, Figure 4A). Pooled data from 10 studies included EBL for 3,542 patients and showed more significant levels of blood loss in the TURP group as compared to the non-TURP group (WMD: 55.38 mL; 95% CI, 12.35 to 98.41 mL; P=0.01). A random-effects model was applied (I²=83%; P<0.001, Figure 4B). Nine studies, including 3,041 patients, reported on transfusion rates and showed no significant differences between the two groups (OR =1.15; 95% CI, 0.83 to 1.59; P=0.39). A fixedeffects model was applied ($I^2=0\%$; P=0.92, Figure 4C). Eight studies, including 3,368 patients, reported on complication rates and the pooled data showed significantly higher complication rates in the TURP group (OR =1.98; 95% CI, 1.27 to 3.08; P=0.002). A random-effects model was applied $(I^2=59\%; P=0.02, Figure 5A)$. Three studies, including 1078 patients, reported on the length of hospital stay and indicated a significant difference between the two groups (WMD: 1.16 days; 95% CI, 0.65 to 1.67 days; P<0.001). A fixed-effects model was applied ($I^2=48\%$; P=0.15, *Figure 5B*). Six studies, including 3,040 patients, reported on the duration of catheter use and found a significant difference between the two groups (WMD: 0.60 days; 95% CI, 0.56 to 0.64; P<0.001). A fixed-effects model was applied ($I^2=0\%$; P=0.50, *Figure 5C*).

Oncological outcomes

Pooled data indicated that the oncological outcomes of the pathologic stage \geq T3, Gleason scores =7, and Gleason scores >7 showed no significant differences between the two groups (*Figures 6*, 7*A*). Data from all 15 studies assessed the positive surgical margin rates of 6,840 patients, which showed significantly higher positive surgical margin rates in the TURP group than the non-TURP group (OR =1.30; 95% CI, 1.09 to 1.55; P=0.004) with no heterogeneity (I²=0%; P=0.69), and a fixed-effects model was applied (*Figure 7B*).

| 1.1.1 LRP | Mean | SD | Total | Mean | n-TURP SD | | Weight | Mean Difference IV, Random, 95% Cl | Mean Difference IV, Random, 95% Cl |
|--|--|--|---|--|---|---|--|---|---------------------------------------|
| loffo | 60.0 | | 110 | 60.7 | - | 140 | 11 10 | 5 60 12 00 7 4 1 | _ |
| Jaffe Menard | 66.2 66.7 | 5.6 4.9 | 119 46 | 60.7 62.8 | 7 6.7 | 119 594 | 11.4% 11.5% | 5.50 [3.89, 7.11] 3.90 [2.38, 5.42] | |
| Pastore | 67.31 | | 40 | 65.68 | | 25 | 12.0% | 1.63 [0.52, 2.74] | |
| Ramirez Backhaus | 64 | 6.7 | 19 | 68 | 4.6 | 136 | 9.1% | -4.00 [-7.11, -0.89] | - |
| Teber | 66 | 14.8 | 55 | 65.6 | 15.6 | 55 | 5.5% | 0.40 [-5.28, 6.08] | + |
| Yang | 69.9 | 20.7 | 35 | 68.9 | 20.7 | 35 | 2.6% | 1.00 [-8.70, 10.70] | + |
| Subtotal (95% CI) | | | 299 | | | 964 | 52.1% | 1.83 [-0.66, 4.32] | 1 |
| Heterogeneity: Tau² : Test for overall effect | | | | '= 5 (P | < 0.000 | i01); I*= | = 86% | | |
| 1.1.2 RARP | | | | | | | | | |
| Hung | 67.5 | 7.4 | 16 | 64.8 | 6.9 | 184 | 8.0% | 2.70 [-1.06, 6.46] | + |
| Zugor | 67.5 | 20 | 80 | 66.1 | 19.3 | 80 | 5.1% | 1.40 [-4.69, 7.49] | + |
| Subtotal (95% CI) | | | 96 | | | 264 | 13.1% | 2.34 [-0.86, 5.54] | Ť |
| Heterogeneity: Tau² : Test for overall effect | | | | = 1 (P = | 0.72);1 | *=0% | | | |
| 1.1.3 OP | | | | | | | | | |
| Fragkoulis | 63.1 | 3.6 | 35 | 62.1 | 4 | 35 | 11.2% | 1.00 [-0.78, 2.78] | + |
| Palisaar Subtotal (05% CI) | 67 | 4.3 | 62 97 | 63 | 6.4 | 62 97 | 11.0% 22.2% | 4.00 [2.08, 5.92] | . |
| Subtotal (95% Cl) Heterogeneity: Tau² : | = 3.61; C | hi² = 5. | | = 1 (P = | 0.02); I | | | 2.48 [-0.46, 5.42] | ľ |
| Test for overall effect | | | | | | | | | |
| 1.1.4 Mixed procedu | | | | <i>c</i> = | _ | | | | |
| Pompe Subtotal (95% CI) | 67.4 | 0.3 | 470 | 67.9 | | 1410 | 12.6% | -0.50 [-0.53, -0.47] | 1 |
| Subtotal (95% CI) Heterogeneity: Not a | pplicable | | 470 | | | 1410 | 12.6% | -0.50 [-0.53, -0.47] | |
| Test for overall effect | | | 0.0000 | 11) | | | | | |
| Fotal (95% CI) | | | 962 | | | 2735 | 100.0% | 1.73 [-0.03, 3.50] | • |
| Heterogeneity: Tau ² : | | | 31.62, 0 | df = 10 | (P < 0.0 | 0001); | I² = 92% | | -100 -50 0 50 10 |
| Test for overall effect Test for subaroup dif | | | | . df= 3 | (P = 0.0 | 02). I² = | 71.0% | | TURP non-TURP |
| В | | URP | | | n-TURP | | | Mean Diff | Mean Difference |
| Study or Subgroup | T Mean | 0.0 | Total | nor Mean | | Total | Weight | Mean Difference IV, Random, 95% Cl | Mean Difference IV, Random, 95% Cl |
| 1.2.1 LRP Jaffe | 48.9 | 20.3 | 119 | 51.4 | 18.5 | 119 | 13.7% | -2.50 [-7.43, 2.43] | - |
| Pastore | 28.04 | 2.2 | 25 | 35.16 | 3.18 | 25 | 17.0% | -7.12 [-8.64, -5.60] | • |
| Yang | 19.2 | 5.6 | 35 | 34.4 | 15.5 | 35 | 13.1% | -15.20 [-20.66, -9.74] | - |
| Subtotal (95% CI) | | | 179 | | | 179 | 43.8% | -8.06 [-13.55, -2.57] | • |
| Heterogeneity: Tau² = Test for overall effect: | | | | f= 2 (P | = 0.003 | 3); I* = 8 | 3% | | |
| 1.2.2 RARP | | | | | | | | | |
| Hung | 31.63 | 8.82 | | 45.49 | 20.99 | 184 | | -13.86 [-19.14, -8.58] | + |
| Subtotal (95% CI) | | | 16 | | | 184 | 13.3% | -13.86 [-19.14, -8.58] | • |
| Heterogeneity: Not ap Test for overall effect: | | (P < 0. | 00001) | | | | | | |
| 1.2.3 OP | | | | | | | | | |
| | | | | | | | | | |
| Fragkoulis | 44.3 | 12.4 | 35 | 43.5 | 11.9 | 35 | 12.8% | 0.80 [-4.89, 6.49] | + |
| Palisaar | 44.3 25.5 | | 35 62 | 43.5 36.7 | 11.9 17.1 | 35 62 | 12.8% 12.7% | 0.80 [-4.89, 6.49] -11.20 [-17.00, -5.40] | + |
| Palisaar Subtotal (95% CI) | 25.5 | 15.8 | 62 97 | 36.7 | 17.1 | 62 97 | 12.7% 25.5% | | |
| Fragkoulis Palisaar Subtotal (95% Cl) Heterogeneity: Tau ² = Test for overall effect: | 25.5 = 63.41; C | 15.8 Chi² = 8 | 62 97 .38, df: | 36.7 | 17.1 | 62 97 | 12.7% 25.5% | -11.20 [-17.00, -5.40] | - |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Test for overall effect: | 25.5 = 63.41; C : Z = 0.86 | 15.8 Chi ² = 8 (P = 0. | 62 97 .38, df: 39) | 36.7 | 17.1 | 62 97 | 12.7% 25.5% % | -11.20 [-17.00, -5.40] | - |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Test for overall effect 1.2.4 Mixed procedu Pompe | 25.5 = 63.41; C : Z = 0.86 | 15.8 Chi ² = 8 (P = 0. and RA | 62 97 .38, df: 39) IRP 470 | 36.7 | 17.1 0.004); | 62 97 ; I ² = 88 1410 | 12.7% 25.5% % | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] | - |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Test for overall effect 1.2.4 Mixed procedu Pompe Subtotal (95% CI) | 25.5 63.41; C Z = 0.86 re of OP 31.1 | 15.8 Chi ² = 8 (P = 0. and RA | 62 97 .38, df: 39) | 36.7 = 1 (P = | 17.1 0.004); | 62 97 1² = 88 | 12.7% 25.5% % | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] | - |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Test for overall effect: 1.2.4 Mixed procedu Pompe Subtotal (95% CI) Heterogeneity: Not ar | 25.5 = 63.41; C : Z = 0.86 re of OP 31.1 oplicable | 15.8 hi≇ = 8 (P = 0. and RA 0.9 | 62 97 .38, df: 39) IRP 470 470 | 36.7 = 1 (P = 32.4 | 17.1 0.004); | 62 97 ; I ² = 88 1410 | 12.7% 25.5% % | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] | - |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Test for overall effect T.2.4 Mixed procedu Pompe Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect | 25.5 = 63.41; C : Z = 0.86 re of OP 31.1 oplicable | 15.8 hi≇ = 8 (P = 0. and RA 0.9 | 62 97 .38, df: 39) IRP 470 470 .00001 | 36.7 = 1 (P = 32.4 | 17.1 : 0.004); 0.5 | 62 97 ; I ² = 88 1410 1410 | 12.7% 25.5% % 17.4% 17.4% | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] -1.30 [-1.39, -1.21] | - |
| Palisaar Subtota (95% CI) Heterogeneity: Tau ² = Test for overall effect: 1.2.4 Mixed procedu Pompe Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect Fotal (95% CI) | 25.5 = 63.41; C = Z = 0.86 re of OP = 31.1 oplicable = Z = 29.8 = 23.44; C | 15.8 Chi ² = 8 (P = 0. and RA 0.9 2 (P < 0 Chi ² = 1 | 62 97 .38, df: 39) 470 470 0.00001 762 14.84, | 36.7 = 1 (P = 32.4 1) | 17.1 : 0.004); 0.5 | 62 97 ; I ² = 88 1410 1410 1870 | 12.7% 25.5% % 17.4% 17.4% 100.0% | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] | |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Fest for overall effect: ² ompe Subtotal (95% CI) Heterogeneity: Not aş Fest for overall effect Fotal (95% CI) Heterogeneity: Tau ² = Fest for overall effect | 25.5 = 63.41; C Z = 0.86 re of OP 31.1 oplicable Z = 29.8 = 23.44; C Z = 3.43 | 15.8 (P = 0. and RA 0.9 2 (P < (Chi ² = 1 (P = 0. | 62 97 .38, df 39) 470 470 0.00001 762 14.84, 0006) | 36.7 = 1 (P = 32.4 1) df = 6 (I | 17.1 : 0.004); 0.5 P < 0.00 | 62 97 ; I ² = 88 1410 1410 1870 1001); I ² | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] -1.30 [-1.39, -1.21] -6.93 [-10.89, -2.97] | -100 -50 TURP non-TURP |
| Palisaar Subtotal (95% CI) Heterogeneity: Tau ² = Fest for overall effect: ² ompe Subtotal (95% CI) Heterogeneity: Not aş Fest for overall effect Fotal (95% CI) Heterogeneity: Tau ² = Fest for overall effect | 25.5 = 63.41; C :Z = 0.86 re of OP 31.1 oplicable :Z = 29.8 = 23.44; C :Z = 3.43 ferences: | 15.8 (P = 0. and RA 0.9 2 (P < ($Chi^2 = 1$ (P = 0. : $Chi^2 =$ | 62 97 .38, df 39) 470 470 0.00001 762 14.84, 0006) | 36.7 = 1 (P = 32.4 1) df = 6 (f df = 3 (| 17.1 : 0.004); 0.5 P < 0.00 | 62 97 ; I ² = 88 1410 1410 1870 0001); I ² | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% | -11.20 [-17.00,-5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] -1.30 [-1.39, -1.21] -6.93 [-10.89, -2.97] | TURP non-TURP |
| Palisaar Suthotal (95% C) Heterogeneity: Tau ² = Test for overall effect 1.2.4 Mixed procedu Suthotal (95% C) Heterogeneity: Tau ² = Test for overall effect Fotal (95% C) Heterogeneity: Tau ² = Test for subaroun diff | 25.5 = 63.41; C :Z = 0.86 re of OP 31.1 oplicable :Z = 29.8 = 23.44; C :Z = 3.43 ferences: | 15.8 chi ² = 8 (P = 0. and RA 0.9 2 (P < 0 chi ² = 1 (P = 0. : Chi ² = TURP | 62 97 .38, df: 39) 470 470 0.00001 762 14.84, 0006) 27.96. | 36.7 = 1 (P = 32.4 1) df = 6 (f df = 3 (| 17.1 : 0.004); 0.5 P < 0.00 (P < 0.00 on-TURJ | 62 97 ; ² = 88 1410 1410 1870 0001); ² 0001), ² | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% 2= 89.3% | -11.20 [-17.00, -5.40] -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] -1.30 [-1.39, -1.21] -6.93 [-10.89, -2.97] | |
| Palisaar Subtotal (95% Ct) Heterogeneily, Tau ^s = Test for overall effect 1.2.4 Mixed procedu Subtotal (95% Ct) Heterogeneity, Not ar Test for overall effect Test for overall effect Test for subgroup diffect Test for subgroup diffect Test for subgroup diffect Test for subgroup diffect Test for subgroup diffect Subdy or Subgroup diffect Subdy or Subgroup diffect | 25.5 = 63.41; C = Z = 0.86 re of OP 31.1 oplicable = 23.44; C = Z = 3.43 ferences: Mean | 15.8 chi ² = 8 (P = 0. and RA 0.9 2 (P < 0 chi ² = 1 (P = 0. : Chi ² = TURP SD | 62 97 .38, df: 39) 470 470 0.00001 762 14.84, 1 0006) 27.96. <u>Total</u> | 36.7 = 1 (P = 32.4 1) df = 6 (f df = 3 (<u>Mean</u> | 17.1 : 0.004); 0.5 P < 0.00 :P < 0.00 :P < 0.00 : SD | 62 97 ; I ² = 88 1410 1410 1870 0001); I ² 0001). I P Total | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% ² = 89.3% Weight | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV, Random, <u>95% CI</u> | TURP non-TURP Mean Difference |
| Palisaar Suthotal (95% CI) Heterogeneily, Tau [*] = Test for overall effect Suthotal (95% CI) Heterogeneily, Not ag Test for overall effect Total (95% CI) Heterogeneily, Tau [*] = Test for overall effect Test for subaround diff Study or Subaround diff Study or Subaround diffect Study or Subaround diffect Study or Subaround diffect Study or Subaround diffect Study or Subaround diffect | 25.5 = 63.41; C = Z = 0.86 re of OP 31.1 oplicable = Z = 29.8 = 23.44; C = Z = 3.43 ferences: Mean 8.19 | 15.8 $hi^{2} = 8$ (P = 0. and RA 0.9 2 $(P < 0)$ $hi^{2} = 1$ (P = 0. : $Chi^{2} =$ TURP SD 4.74 | 62 97 .38, df: 39) 470 470 0.00001 762 14.84, 1 0006) 27.96. <u>Total</u> 119 | 36.7 = 1 (P = 32.4 1) df = 6 (I df = 3 (<u>Mean</u> 8.14 | 17.1 : 0.004); 0.5 P < 0.00 :P < 0.00 :P < 0.00 :D < 0.00 : | 62 97 ; ² = 88 1410 1410 1410 1870 0001); ² 00001); ² 00001); ² 00001); <u>P</u> <u>Total</u> | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% 2 = 89.3% Weight 14.2% | -11.20 (+7.20, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV, Random, 95% CI | TURP non-TURP Mean Difference |
| Palisaar Subtotal (95% Ct) Heterogeneily, Tau [*] = Test for overall effect 1.2.4 Mixed procedu Fompe Subtotal (95% Ct) Heterogeneily, Tau [*] = Test for overall effect Total (95% Ct) Heterogeneily, Tau [*] = Test for overall effect Test for subaroup diff C Subty or Subgroup 1.3.4 LRP Jaffe Menard | 25.5 = 63.41; C Z = 0.86 re of OP 31.1 oplicable Z = 29.8 = 23.44; C Z = 3.43 ferences: 1 Mean 8.19 7.8 | 15.8 (P = 0, and RA 0.9 2 (P < (Chi ² = 1 (P = 0, Chi ² = 1 (| 62 97 .38, df: 39) IRP 470 470 0.000001 762 14.84, 0006) 27.96. Total 119 46 | 36.7 = 1 (P = 32.4 1) df = 6 (I df = 3 (<u>Mean</u> 8.14 10.3 | 17.1 : 0.004); 0.5 P < 0.00 :P < 0.00 : SD : 4.63 : 8.8 | 62 97 ; * = 88 1410 1410 1870 0001); * 00001); * 00001); * 00001); 10001]; * 10001]; * 119 594 | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% ² = 89.3% <u>Weight</u> 14.2% 11.9% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV. Random, 95% CI 0.05 (+1.4, 1.24) -2.50 (+1.6, 0.84) | TURP non-TURP Mean Difference |
| Palisaar Suthota (95% C) Heterogeneik, Tau*= Test for overall effect Suthota (95% C) Heterogeneik, Nota ar Test for overall effect Total (95% C) Heterogeneik, Tau*= Test for overall effect Test for subarouo diff Study or Subarouo Study or Subarouo Jaffe Menard Pastore | 25.5 = 63.41; C = Z = 0.86 re of OP 31.1 oplicable = Z = 29.8 = 23.44; C = Z = 3.43 ferences: Mean 8.19 | 15.8 $hi^{2} = 8$ (P = 0. and RA 0.9 2 $(P < 0)$ $hi^{2} = 1$ (P = 0. : $Chi^{2} =$ TURP SD 4.74 | 62 97 .38, df: 39) 470 470 0.00001 762 14.84, 1 0006) 27.96. <u>Total</u> 119 | 36.7 = 1 (P = 32.4 1) df = 6 (I df = 3 (<u>Mean</u> 8.14 | 17.1 : 0.004); 0.5 P < 0.00 :P < 0.00 :P < 0.00 : SD : 4.63 : 8.8 | 62 97 (1410 1410 1410 1870 0001); P 0001); P 0001); P 0001); I 10001); P 10001); I 119 594 594 594 594 | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% ² = 89.3% <u>Weight</u> 14.2% 11.9% | -11.20 (+7.20, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV, Random, 95% CI | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthota (95% CI) Heterogeneik, Tau*= Test for overall effect Zest for overall effect Suthota (95% CI) Heterogeneik, Nota ar Test for overall effect Test for subaroun diff Cat (95% CI) Heterogeneik, Tau*= Test for subaroun diff Cat (95% | 25.5 = 63.41; C = Z = 0.86 re of OP 31.1 opticable = 23.44; C = Z = 3.43 ferences: Mean 8.19 7.8 4.01 9 3.1 | 15.8 (P = 0, and RA 0.9 2 (P < 0 Chi ² = 1 (P = 0, Chi ² = 1 (P = 0, Chi ² = 1 (P = 0, SD 4.74 5.2 0.3 3.3 3.3 | 62 97 .38, df 39) 470 470 0.00001 762 14.84, 27.96. 119 46 25 19 55 | 36.7 = 1 (P = 32.4 1) df = 6 (l df = 3 (m <u>Mean</u> 8.14 10.3 6.5 11 9.44 | 17.1 0.004), 0.5 P < 0.00 P < 0.00 P < 0.00 0.5 0.5 0.5 0.5 5.9 12.4 | 62 97 97 1410 1410 1870 0001); F 0001), F 0001), F 0001), F 119 594 594 594 136 55 | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% ≥ 89.3% Weight 14.2% 11.9% 17.3% 5.7% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (+1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV. Random, 95% CI 0.05 (+1.40, -0.44) -2.50 (+1.60, -0.44) -2.49 (=2.99, -2.00) -2.00 (+7.9, 0.73) -6.34 (=37.3, -2.55) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthota (95% C) Heterogeneiky, Tau [*] = Test for overall effect 1.2.4 Mixed procedu Pompe Subtota (95% C) Heterogeneiky, Not aj Test for overall effect Total (95% C) Heterogeneiky, Tau [*] Test for overall effect Test for subaroup diff C Study or Subgroup 1.3.1 LRP Jaffe Menard Pastore Raminez Backhaus Teber | 25.5 = 63.41; C = Z = 0.86 re of OP 31.1 oplicable = 23.44; C Z = 3.43 ferences: 1 Mean 8.19 7.8 4.01 9 | 15.8 $hi^{\mu} = 8$ (P = 0. and RA 0.9 2 (P < 0) $hi^{\mu} = 1.$ (P = 0. $Chi^{\mu} = 1.$ (P = 0. $Chi^{\mu} = 1.$ P = 0. $Chi^{\mu} = 1.$ P = 0. (P < 0) $Chi^{\mu} = 1.$ (P = 0. $Chi^{\mu} = 1.$ (P = 0.) (P | 62 97 .38, df: 39) 470 0.00001 762 14.84, 0006) 27.96. 119 46 25 19 55 35 | 36.7 = 1 (P = 32.4 1) df = 6 (I <u>Mean</u> 8.14 10.3 8.14 10.3 11 | 17.1 0.004), 0.5 P < 0.00 P < 0.00 P < 0.00 0.5 0.5 0.5 0.5 5.9 12.4 | 62 97 (₽ = 88 1410 1410 1870 0001); ₽ <u>1870</u> 0001); 1 9 <u>1994</u> 594 594 55 55 55 55 35 | 12.7% 25.5% % 17.4% 17.4% = 95% = 95% = 89.3% Weight 14.2% 11.9% 17.3% 7.3% 5.7% 1.4% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -1.30 (-1.39, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, -1.24) -2.50 (-4.16, -0.84) -2.40 (-4.79, 0.79) -6.34 (-9.73, -25) -1.28 (-9.15, 6.59) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthotal (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.2.4 Mixed procedus Ompe Suthotal (95% C) Heterogeneik, Not aj Test for overall effect Test for subaroun diff Categoreneik, Tau [*] = Test for overall effect Test for subaroun diff Categoreneik, Tau [*] = Suthotal Subaround Palisme Amimice Backhaus Feber Gas (95% C) Heterogeneik, Tau [*] = | 25.5 = 63.41; C Z = 0.86 re of OP 31.1 oplicable Z = 29.8 = 23.44; C Z = 3.43 ferences: X = 3.43 ferences: 0 8.19 7.8 4.01 9 3.1 9.21 = 1.92; CF | 15.8 chi ^a = 8 (P = 0. and RA 0.9 2 (P < (chi ^a = 1 (P = 0. chi ^a = 1 (P = 0. chi ^a = 4.74 5.2 3.3 14.9 hi ^a = 20 | 62 97 .38, df: 39) RP 470 470 0.00001 762 14.84, 0006) 27.96. 119 465 25 55 299 9.97, df: | 36.7 = 1 (P = 32.4 1) df = 6 (I <u>mean</u> 8.14 10.3 0.5 11 9.44 10.49 | 17.1 0.004); 0.5 P < 0.00 P < 0.00 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 62 97 ; = 88 1410 1410 1870 10001); 1 00001); 1 00001); 1 00001); 1 199 100001); 1 199 10001); 1 199 10001]; 1 190 10001]; 1 190 10000]; 1 190 10000]; | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% *= 89.3% Weight 14.2% 11.9% 17.3% 5.7% 1.4% 5.7% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -1.30 (-1.39, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, -1.24) -2.50 (-4.16, -0.84) -2.40 (-4.79, 0.79) -6.34 (-9.73, -25) -1.28 (-9.15, 6.59) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthotal (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.2.4 Mixed procedus Formpe Suthotal (95% C) Heterogeneik, Not aj Test for overall effect Total (95% C) Heterogeneik, Tau [*] = Test for overall effect Test for subaround iff C Study or Subaround iff C Study or Subaround iff C Study or Subaround iff Pastore Raminez Backhaus Teber Subtotal (95% C) | 25.5 = 63.41; C Z = 0.86 re of OP 31.1 oplicable Z = 29.8 = 23.44; C Z = 3.43 ferences: X = 3.43 ferences: 0 8.19 7.8 4.01 9 3.1 9.21 = 1.92; CF | 15.8 chi ^a = 8 (P = 0. and RA 0.9 2 (P < (chi ^a = 1 (P = 0. chi ^a = 1 (P = 0. chi ^a = 4.74 5.2 3.3 14.9 hi ^a = 20 | 62 97 .38, df: 39) RP 470 470 0.00001 762 14.84, 0006) 27.96. 119 465 25 55 299 9.97, df: | 36.7 = 1 (P = 32.4 1) df = 6 (I <u>mean</u> 8.14 10.3 0.5 11 9.44 10.49 | 17.1 0.004); 0.5 P < 0.00 P < 0.00 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 62 97 ; = 88 1410 1410 1870 10001); 1 00001); 1 00001); 1 00001); 1 199 100001); 1 199 10001); 1 199 10001]; 1 190 10001]; 1 190 10000]; 1 190 10000]; | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% *= 89.3% Weight 14.2% 11.9% 17.3% 5.7% 1.4% 5.7% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -1.30 (-1.39, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, -1.24) -2.50 (-4.16, -0.84) -2.40 (-4.79, 0.79) -6.34 (-9.73, -25) -1.28 (-9.15, 6.59) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthotal (95% CI) Heterogeneik, Tau [*] = Test for overall effect Pompe Suthotal (95% CI) Heterogeneiky, Not aş Test for overall effect Test for overall effect Test for subbroup diff Curver Subgroup La Suthotal (95% CI) Heterogeneik, Tau [*] = Suthotal (95% CI) Heterogeneik, Tau [*] = Test for overall effect Test for subgroup La Suthotal (95% CI) Heterogeneik, Tau [*] = Test for overall effect Test for overall effect La Suthotal (95% CI) | 25.5 25.5 2 = 0.86 re of OP 31.1 applicable = 23.44; c; 2 2 = 2.9.8 10 Mean 8.19 7.8 8.19 7.8 4.01 9 3.1 1 9.21 = 1.92; cf C | 15.8 $hi^2 = 8$ (P = 0. and RAA 0.9 2 (P < (Chi ² = 1 (P = 0. Chi ² = 1 (P = 0. Chi ² = 4.74 5.2 0.93 5.8 3.3 14.9 $hi^2 = 20$ (P = 0. | 62 97 38, df: 38, df: 470 0.00001 762 14.84, 00060 27.96. 119 46 25 5 29 99 9.97, df: 003) | 36.7 = 1 (P = 32.4 1) df = 6 (l df = 3 (m <u>m</u> 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = | 17.1 0.004); 0.5 P < 0.00 P < 0.00 P < 0.00 00.7URI 5.5 9 12.4 18.5 12.4 18.5 | 62 97 ; = 88 1410 1410 1870 0001); P 1870 0001); P 190 190 1964 964 964 964 964 | 12.7% 25.5% % 17.4% 100.0% = 95% = 89.3% Weight 14.2% 5.7% 5.7% 6% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV. Random, 95% CI 0.05 (+1.4, 1.24) -2.50 (+4.16, .04) -2.00 (+4.16, .04) -2.49 (+2.98, -2.00) -2.00 (+4.79, .079) -2.01 (+4.79, .079) -2.21 (-3.66, -0.76) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthotal (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.2.4 Mixed procedus formpe Sundotal (95% C) Heterogeneik, Tau [*] = Test for overall effect Total (95% C) Heterogeneik, Tau [*] = Test for overall effect Test for subgroup Study or Subgroup 1.3.1 LRP Subdy or Subgroup Subdy and (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.3.2 RARP Hung | 25.5 = 63.41; CC Z = 0.86 re of OP 31.1 pplicable Z = 29.8 = 23.44; CC Z = 3.43 eferences: 1 Mean 9 3.1 9 3.2 1 9 3.1 9 3.1 9 3.1 9 3.2 1 9 2.2 9 8 3.1 9 3.1 9 3.2 1 9 2.2 9 2.2 9 2.2 9 2.2 9 2.2 9 2.2 2.2 | 15.8 $hi^2 = 8$ (P = 0. and RA 0.9 2 (P < (0 - 0.)) (P = 0.) $C hi^2 = 1$ (P = 0.) $C hi^2 = 1$ (P = 0.) 1 + (P = 0.) (P = 0.) 2 + (P = 0.) | 62 97 38, df: 39) RP 470 470 0.00000 762 14.84, 0006) 27.96. Total 119 46 25 35 299 97, df: 003) | 36.7 = 1 (P = 32.4 1) df = 6 (l df = 6 (l m Mean 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = 17.85 | 17.1 0.004); 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.00 SD 12.4 18.5 0.85 5.9 12.4 18.5 0.0008 0.85 5.9 12.4 18.5 0.0008 0.85 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 | 62 97 ; F = 88 1410 1410 1870 0001); F 0001); F 0001); F 0001); F 199 594 964 964 964 964 964 964 | 12.7% 25.5% % 17.4% 100.0% = 95% = 95% = 89.3% Weight 14.2% 17.3% 5.7% 5.7% 6% 0.4% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.4, 0.44) -2.50 (+1.6, 0.45) -2.00 (+ 7.9, 0.79) -2.00 (+ 7.9, 0.79) -2.21 (-3.66, -0.76) 8.59 (-6.20, 23.38) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthotal (95% C) Heterogeneiky, Tau ² = Test for overall effect 1.2.4 Mixed proceedu Suthotal (95% C) Heterogeneiky, Tau ² = Test for overall effect Test for overall effect Test for overall effect Test for overall effect Test for subaroup diffect Test for subaroup diffect 1.3.1 LRP Pastore Ramirez Backhaus Teber Yang Subtotal (95% C) Hung Zugor Zugor Curron (95% C) | 25.5 25.5 2 = 0.66 2 = 0.66 31.1 2 = 20.86 2 = 20.86 2 = 20.86 2 = 20.84 2 = 20.84 8.19 7.8 4.01 9.21 1 = 1.92; Cf 2 = 2.92; Cf 2 = 2.92; Cf 2 = 2.94 2 = 2.94 | 15.8 chi ² = 8 (P = 0. 0.9 2 (P < 0 chi ² = 1 (P = 0. chi ² = 2 chi | 62 97 38, df: 338, df: 470 470 0.00001 762 14.84, 0006) 27.96. Total 119 46 25 55 35 299 99.97, df: 003) 166 800 90 | 36.7 = 1 (P = 32.4 1) df = 6 (l <u>mean</u> 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = 9.2 | 17.1 0.004); 0.5 P < 0.00 P < 0.00 P < 0.01 P < 0.01 P < 0.01 SD 12.4 18.5 5.9,9 12.4 18.5 5.5,9 12.4 18.5 5.5,9 12.4 18.5 5.5 9,9 12.4 18.5 5.5 9,12 18.5 18.5 18.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19 | 62 97 1410 1410 1870 0001), I 00001), I 00001), I 00001), I 00001), I 00001), I 19 00001), I 19 00001), I 19 100001, I 100001, I 100000, I 1000000, I 1000000, I 10000000000, I 100000000000000000000000000000 | 12.7% 25.5% % 17.4% 100.0% = 95% = 95% = 89.3% Weight 14.2% 17.3% 5.7% 5.7% 6% 0.4% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.4, 0.44) -2.50 (+1.6, 0.45) -2.00 (+ 7.9, 0.79) -2.00 (+ 7.9, 0.79) -2.21 (-3.66, -0.76) 8.59 (-6.20, 23.38) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthota (95% C) Heterogeneik, Tau ² = Test for overall effect Pompe Suthota (95% C) Heterogeneik, Not a Test for overall effect Test for overall effect Test for subarous diffect Test for subarous diffect Test for subarous diffect Test for subarous diffect Suthota (95% C) Heterogeneik, Tau ² = Test for overall effect Test for overall effect 1.3.2 RARP Heterogeneik, Tau ² = Test for overall effect 1.3.2 RARP Heterogeneik, Tau ² = | 25.5 25.5 2 = 0.86 2 = 0.86 31.1 2 = 0.86 31.1 2 = 0.86 2 = 0.86 3 = 0.86 2 = 0.86 2 = 0.86 3 = 0.86 2 = 0.86 4 = 0.96 3 = 0.86 4 = 0.96 5 = 0.86 4 = 0.96 5 = 0.86 5 | 15.8 $hi^2 = 8$ (P = 0. and RA 0.9 2 $(P < (hi^2 = 1(P = 0.hi^2 = 1(P = 0.1(P = 0.11(P = 0.111(P = 0.1111122(P = 0.11111111$ | 62 97 338, df: 338, df: 470 470 0.00000 762 14.84, 0006) 27.96. 119 46 25 19 55 55 35 299 .97, df: 003) 16 80 003 | 36.7 = 1 (P = 32.4 1) df = 6 (l <u>m</u> <u>Mean</u> 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = 9.2 | 17.1 0.004); 0.5 P < 0.00 P < 0.00 P < 0.01 P < 0.01 P < 0.01 SD 12.4 18.5 5.9,9 12.4 18.5 5.5,9 12.4 18.5 5.5,9 12.4 18.5 5.5 9,9 12.4 18.5 5.5 9,12 18.5 18.5 18.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19 | 62 97 1410 1410 1870 0001), P 00001), I 00001), I 00001), I 190 594 136 55 51 136 55 136 55 964 964 964 80 264 | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% = 95% = 89.3% Weight 14.2% 5.7% 1.4% 5.7% 0.4% 0.4% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, -0.34) -2.50 (-4.14, -0.34) -2.50 (-4.14, -0.34) -2.50 (-4.14, -0.34) -2.05 | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthota (95% C) Heterogeneik, Tau [*] = Test for overall effect Pompe Pompe Suthota (95% C) Heterogeneik, Tau [*] = Test for overall effect Test for subarous diffect Test for subarous diffect Suthota (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.3.2 RARP Hung Subtota (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.3.2 RARP | 25.5 25.5 2 = 0.86 2 = 0.86 31.1 2 = 0.86 31.1 2 = 0.86 2 = 0.86 3 = 0.86 2 = 0.86 2 = 0.86 3 = 0.86 2 = 0.86 4 = 0.96 3 = 0.86 4 = 0.96 5 = 0.86 4 = 0.96 5 = 0.86 5 | 15.8 $hi^2 = 8$ (P = 0. and RA 0.9 2 $(P < (hi^2 = 1(P = 0.hi^2 = 1(P = 0.1(P = 0.11(P = 0.1111122(P = 0.11(P = 0.11(P = 0.11111111$ | 62 97 338, df: 338, df: 470 470 0.00000 762 14.84, 0006) 27.96. 119 46 25 19 55 55 35 299 .97, df: 003) 16 80 003 | 36.7 = 1 (P = 32.4 1) df = 6 (l <u>m</u> <u>Mean</u> 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = 9.2 | 17.1 0.004); 0.5 P < 0.00 P < 0.00 P < 0.01 P < 0.01 P < 0.01 SD 12.4 18.5 5.9,9 12.4 18.5 5.5,9 12.4 18.5 5.5,9 12.4 18.5 5.5 9,9 12.4 18.5 5.5 9,12 18.5 18.5 18.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19 | 62 97 1410 1410 1870 0001), P 00001), I 00001), I 00001), I 190 594 136 55 51 136 55 136 55 964 964 964 80 264 | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% = 95% = 89.3% Weight 14.2% 5.7% 1.4% 5.7% 0.4% 0.4% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, -0.34) -2.50 (-4.14, -0.34) -2.50 (-4.14, -0.34) -2.50 (-4.14, -0.34) -2.05 | TURP non-TURP Mean Difference |
| Palisaar Palisaar Suthotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Suthotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Total (95% CI) Heterogeneiky, Tau*= Study or Subgroup 1.3.1 LPP Jaffe Menard Pastore Ramirez Backhaus Teber Yang Suthotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.2 RARP Hung Zugor Test for overall effect 1.3.2 RARP | 25.5 25.5 2 = 0.86 2 = 0.86 31.1 2 = 0.86 31.1 2 = 0.86 2 = 0.86 3 = 0.86 2 = 0.86 2 = 0.86 3 = 0.86 2 = 0.86 4 = 0.96 3 = 0.86 4 = 0.96 5 = 0.86 4 = 0.96 5 = 0.86 5 | 15.8 $hi^{\mu} = 8$ (P = 0. and RA 0.9 2 $(P < 0)$ (P = 0. $hi^{\mu} = 1$ (P = 0. $hi^{\mu} = 5$ $hi^{\mu} = 0.$ (P = 0. (P = 0. 29.59 56.7 $hi^{\mu} = 0.$ (P = 0. | 62 97 338, df: 338, df: 470 470 0.00000 762 14.84, 0006) 27.96. 119 46 25 19 55 55 35 299 .97, df: 003) 16 80 003 | 36.7 = 1 (P = 32.4 1) df = 6 (l df = 3 (l m Mean 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = 17.85 9.2 1 (P = l | 17.1 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 0.5 9 4.63 8.8 0.85 5.9 9 12.4 18.5 € 0.0008 € 20.27 35.7 0.44); P | 62 97 97 1410 1410 1870 0001); P 0001); P 0001); I 0001); I 0001); I 0001); I 136 55 55 964 964 964 964 964 964 964 964 964 964 | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% = 89.3% Weight 14.2% 5.7% 6% 0.4% 0.4% | -11.20 (+17.00, -5.40) -5.19 [-16.95, 6.57] -1.30 [-1.39, -1.21] -1.30 [-1.38, -1.21] -6.93 [-10.89, -2.97] -6.93 [-10.89, -2.97] -0.05 [+1.4, 1.24] -2.50 [+1.6, -0.85] -2.49 [-2.98, -2.00] -2.00 [+1.9, -0.84] -2.49 [-2.98, -2.00] -2.00 [+1.9, -0.84] -2.49 [-2.98, -2.01] -2.00 [+1.9, -0.84] -2.49 [-2.98, -2.01] -2.01 [+1.43, -1.49] -2.24 [-3.66, -0.76] -3.24 [-5.05, -3.24] -3.24 [-5.0 | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotal (95% C) Heterogeneik, Tau [*] = Test for overall effect 1.2.4 Mixed procedus formpe Subtotal (95% C) Heterogeneik, Not ar Test for overall effect Total (95% C) Heterogeneik, Tau [*] = Test for overall effect Test for subaroun diff C Study or Subaroun diffect Test for subaroun diffect Test for subaroun diffect 1.3.1 LRP Jaffe Menard Pastore Feber Test for overall effect 1.3.2 RRP Heterogeneik, Tau [*] = Test for overall effect 1.3.3 OP Fragboulis | 25.5 63.41; C Z = 0.86 re of OP 31.1 applicable Z = 2.3.44; C Z = 2.3.43 R.19 9.21 9.2 | 15.8 $hi^2 = 8$ (P = 0. and RA 0.9 2 $(P < (hi^2 = 1(P = 0.hi^2 = 1(P = 0.1(P = 0.11(P = 0.1111122(P = 0.11(P = 0.11(P = 0.11111111$ | 62 97 38, df: 399 470 0.00001 762 14.84, 470 27.96. 119 46 25 299 9.97, df: 0003) 16 80 96 651, df= 41) | 36.7 = 1 (P = 32.4 1) df = 6 (l <u>m</u> <u>Mean</u> 8.14 10.3 6.5 11 9.44 10.49 = 5 (P = 9.2 | 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.01 P < 0.01 SD 0.85 5.9.9 12.4 18.5 € 0.0008 € 20.27 35.7 35.7 12.4 18.5 | 62 97 97 1410 1410 1870 0001); P 0001); P 0001); I 0001); I 0001); I 0001); I 136 55 55 964 964 964 964 964 964 964 964 964 964 | 12.7% 25.5% % 17.4% 100.0% = 95% = 89.3% Weight 14.2% 57.7% 57.7% 0.4% 0.4% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.38, -1.21) -1.30 (-1.38, -1.21) -6.93 (-10.89, -2.97) Mean Difference IV. Random, 95% CI 0.05 (+1.4, 1.24) -2.50 (+1.6, -0.89, -2.09) -2.00 (+1.9, -0.39) -2.49 (-2.98, -2.00) -2.00 (+1.9, -0.79) -2.24 (-1.9, -0.89) -2.21 (-3.66, -0.76) 8.59 (-6.20, 23.38) 0.30 (+4.38, 14.98) 4.41 (-6.01, 14.83) -0.10 (-0.59, 0.39) -4.10 (-7.32, -0.88) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotal (95% C) Heterogeneiky, Tau*= Test for overall effect 1.2.4 Mixed proceedus formpe Subtotal (95% C) Heterogeneiky, Tau*= Test for overall effect Total (95% C) Heterogeneiky, Tau*= Subtotal (95% C) Heterogeneiky, Tau*= Test for overall effect 1.3.1 LPP Pastore Ramirez Backhaus Teber Test for overall effect 1.3.2 NDP Heterogeneiky, Tau*= Test for overall effect 1.3.3 OP Tesgloculis Palsasar Subtotal (95% C) | 25.5 63.41; C Z = 0.86 re of OP 31.1 oplicable Z = 29.8 23.44; C Z = 3.43 Mean 9 3.1 1 Mean 9 3.1 1 1 1 1 2 2.44; C 2.3.43 1 2.2 3.44; C 2.2 3.44; C 3.12 3.44; C 3.12 3.44; C 3.12 3.44; C 3.12 3.44; C 3.12 3.44; C 3.12 3.44; C 3.12 3.44; C 3.12 3.12 3.14; C 3.12 3.14; C 3.12 3.14; C 3.12 3.14; C 3.12 3.14; C 3.12 3.14; C 3.12 3.12 3.14; C 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.14; C 3.12 3.14; C 3.12 3.14; C 3.12 3.14; C 3.14; C | 15.8 $hi^{\mu} = 8$ (P = 0. and RA 0.9 2 $(P < (0)$ $hi^{\mu} = 1.$ (P = 0. $hi^{\mu} = 0.$ (P = 0. $hi^{\mu} = 20.$ (P = 0. $hi^{\mu} = 0.6$ (P = 0. (P = 0. $hi^{\mu} = 0.6$ (P = 0. (P = 0 | 62 97 .38, df: 339) RPP 4700 4700 4700 4700 27.96. Total 1199 466 25 35 25 35 25 35 25 35 25 35 25 35 35 35 35 35 35 35 35 35 35 35 35 35 | 36.7 = 1 (P = 32.4 1) df = 6 (l Mean Mean 8.14 10.3 8.14 10.3 8.14 10.3 9.44 10.49 = 5 (P = 17.85 9.2 1 (P = 1 (P = 3.5 9.9 | 17.1 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.00 0 00 00 00 00 12.4 18.5 0.0008 20.27 35.7 35.7 35.7 11 11 | 62 97 97 1410 1410 1870 0001); F 0001); F 0001); F 0001); F 0001); F 159 255 35 95 95 136 55 35 95 96 264 20% | 12.7% 25.5% % 17.4% 100.0% = 95% = 89.3% Weight 14.2% 11.9% 7.3% 5.7.% 6% 0.4% 0.4% 0.9% 17.3% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.38, -1.21) -1.30 (-1.38, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, 1.24) -2.50 (+1.6, -0.89) -2.01 (+1.6, -0.89) -2.01 (-1.6, -0.9) -2.01 (-0.59, 0.39) -4.10 (-7.32, -0.88) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtota (95% C) Heterogeneik, Tau*= Test for overall effect Test for overall effect 2.2.4 Mixed procedu Pompie Subtota (95% C) Heterogeneik, Tau*= Test for overall effect Test for suboroun diff C Study or Subgroup 1.3.1 LPP Jaffe Menard Pastore Ramirez Backhaus Teber Yang Subtota (95% C) Heterogeneik, Tau*= Test for overall effect 1.3.2 RARP Zugor Subtota (95% C) Heterogeneik, Tau*= Test for overall effect 1.3.3 OP Pragisoulis Palisaar | 25.5 63.41; C 2 = 0.86 13.1 2 = 0.86 2 = 23.44; C Z = 29.8 2 = 23.44; C Z = 29.8 2 = 23.44; C Z = 29.8 1 1 Mean 9 7.8 4.01 9 7.8 4.01 9 2 = 0.83 3.1 1 9 2 = 0.84 4.5 5 5 = 0.00; C Z = 0.83 3.4 5 = 0.00; C Z = 0.83 3.4 5 = 0.00; C Z = 0.83 3.4 5 = 0.00; C Z = 0.84 5 = 0.00; C Z = 0.84 5 = 0.00; C Z = 0.84 5 = 0.00; C Z = 0.83 3.4 5 = 0.00; C Z = 0.83 2.5 = 0.00; C Z = 0.85 = 0.00; C Z = 0.85 = 0.00; C Z = 0.85 = 0.00; C Z = 0.00; | 15.8 $hi^{\mu} = 8$ (P = 0. 0.9 2 $(P < 0.$ $hi^{\mu} = 10.$ (P = 0. (P = 0. (P = 0. (P = 0. 1.9 1.9 1.9 1.8 1 | 62 97 38, df 390 470 470 470 470 762 14.84, 470 762 14.84, 119 46 255 299 .97, df 80 96 65 31, df 41) 16 80 96 96 97 97 97 97 97 90, df 97 97 90, df 97 97 90, df 97 97 97 97 90, df 97 97 97 97 97 97 97 90, df 97 97 97 97 97 97 97 97 97 97 97 97 97 | 36.7 = 1 (P = 32.4 1) df = 6 (l Mean Mean 8.14 10.3 8.14 10.3 8.14 10.3 9.44 10.49 = 5 (P = 17.85 9.2 1 (P = 1 (P = 3.5 9.9 | 17.1 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.00 0 00 00 00 00 12.4 18.5 0.0008 20.27 35.7 35.7 35.7 11 11 | 62 97 97 1410 1410 1870 0001); F 0001); F 0001); F 0001); F 0001); F 0001); F 159 255 35 95 95 136 264 20% | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% = 89.3% Weight 14.2% 57.7% 6% 0.4% 0.4% 0.4% 0.4% 0.4% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.38, -1.21) -1.30 (-1.38, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, 1.24) -2.50 (+1.6, -0.89) -2.01 (+1.6, -0.89) -2.01 (-1.6, -0.9) -2.01 (-0.59, 0.39) -4.10 (-7.32, -0.88) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 2.2.4 Mixed procedu Pompe Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Test for subgroup 1.3.1 LPP Jaffe Menard Pastore Ramirez Backhaus Teber Yang Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.2 RARP Hung Zupor Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.3 OPI Palisaar Test for overall effect 1.3.3 OPI | 25.5 = 63.41; C = 0.60 = 0.10 = 0.10 = 23.44; C Z = 2.88 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 0.10 = 0.00; C = 0.0 | 15.8 $hi^{\mu} = 8$ (P = 0. 0.9 2 $(P < 0.$ $hi^{\mu} = 1.0$ (P = 0. (P = 0. (P = 0. 1.1 6.8 $hi^{\mu} = 5.8$ (P = 0. | 62 97 38, df = 470 470 470 0.00001 762 14.84, 470 27.96. 118, 84, 0006) 27.96. 119, 46 25 35 299 9.97, df = 003) 16 80 96 62 37, df = 441) 35 62 97 97 96 96 96 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90 | 36.7 = 1 (P = 32.4 1) df = 6 (l Mean Mean 8.14 10.3 8.14 10.3 8.14 10.3 9.44 10.49 = 5 (P = 17.85 9.2 1 (P = 1 (P = 3.5 9.9 | 17.1 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.00 0 00 00 00 00 12.4 18.5 0.0008 20.27 35.7 35.7 35.7 11 11 | 62 97 97 1410 1410 1870 0001); F 0001); F 0001); F 0001); F 0001); F 0001); F 159 255 35 95 95 136 264 20% | 12.7% 25.5% % 17.4% 17.4% 100.0% = 95% = 89.3% Weight 14.2% 57.7% 6% 0.4% 0.4% 0.4% 0.4% 0.4% | -11.20 (+17.00, -5.40) -5.19 (-16.95, 6.57) -1.30 (-1.38, -1.21) -1.30 (-1.38, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (-1.14, 1.24) -2.50 (+1.6, -0.89) -2.01 (+1.6, -0.89) -2.01 (-1.6, -0.9) -2.01 (-0.59, 0.39) -4.10 (-7.32, -0.88) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 2.2.4 Mixed procedu Pompe Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Test for subgroup 1.3.1 LPP List for subgroup 1.3.1 LPP Subtotal (95% CI) Heterogeneiky, Tau*= Test for verall effect Test for overall effect 1.3.2 RARP Hung Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.3 OP Tragboulis Paissar Test for overall effect 1.3.3 OP Tragboulis Paissar Test for overall effect 1.3.4 Mixed procedu Pompe | 25.5 = 63.41; C = 0.60 = 0.10 = 0.10 = 23.44; C Z = 2.88 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 0.10 = 0.00; C = 0.0 | 15.8 $hi^{\mu} = 8$ (P = 0. 0.9 2 $(P < 0.$ $hi^{\mu} = 1.0$ (P = 0. (P = 0. (P = 0. 1.1 6.8 $hi^{\mu} = 5.8$ (P = 0. | 62 97 38, df: 470 470 3.00001 762 14, 84, 470 762 14, 84, 119 46 25 55 35 299 9.97, df: 80 96 51, df: 80 96 51, df: 80 96 97, df: 35 62 97 97 97 97 97 97 97 90, df: 80 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97 | 36.7 = 1 (P = 32.4 1) df = 6 (l Mean Mean 8.14 10.3 8.14 10.3 8.14 10.3 9.44 10.49 = 5 (P = 17.85 9.2 1 (P = 1 (P = 3.5 9.9 | 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.01 P < 0.01 SD 0.5 12.4 18.5 5.9 12.4 18.5 5.9 12.4 18.5 5.9 12.4 18.5 5.9 12.4 18.5 1.5 0.0008 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | 62 97 97 1410 1410 1870 0001); P Total 0001); I Total 19 59 59 64 25 5 35 964 964 964 964 964 964 964 964 964 80 264 80 264 80 264 80 80 264 80 80 80 80 80 80 80 80 80 80 80 80 80 | 12.7% 225% % 100.0% 17.4% 17.4% 17.4% 17.4% 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 0.4% 0.4% 0.9% 17.3% 17.3% 17.3% 17.4% 17.4% 17.4% 11 | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.40, -0.44) -2.50 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.00 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.01 (-0.56, -0.76) -3.00 (+1.48, -1.483) -0.10 (-0.59, 0.39) -4.10 (-7.32, -0.88) -1.77 (-5.64, -2.10) -0.20 (-0.23, -0.17) | TURP non-TURP Mean Difference |
| Palisaar Subtotal (95% C) Heterogeneik, Tau ² = Test for overall effect 1.2.4 Mixed procedu (95% C) Heterogeneik, Not aj Test for overall effect Total (95% C) Heterogeneik, Tau ² = Test for overall effect Test for subgroup C. Subtotal (95% C) Heterogeneik, Tau ² = Test for overall effect Teber Yang Subtotal (95% C) Heterogeneik, Tau ² = Test for overall effect 1.3.2 ARP Hung Zugor Test for overall effect 1.3.3 OP Fragboulis Palisaar Subtotal (95% C) Heterogeneik, Tau ² = Test for overall effect 1.3.3 OP | 25.5 63.41; (2 = 0.86 7 7 1.1 2.2 3.1 2.3 4.4; (2.2 2.3 4.4; (2.2 2.3 4.0; (3.1 9.2; (2.2 2.9) 2.6 4.4; (2.2 2.9) 2.6 4.4; (2.2 2.9) 2.6 4.4; (2.2 2.9) 2.6 4.4; (2.2 2.9) 2.6 4.4; (2.2 2.9) 3.4; (2.2 2.9) 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7. | 15.8 $hi^{2} = 8$ (P = 0. and RA 0.9 2 (P < (P = 0. $hi^{2} = 1$ (P = 0. $hi^{2} = 1$ (P = 0. 0.9 14.9 $hi^{2} = 20$ (P = 0. 14.9 $hi^{2} = 20.59$ 56.7 $hi^{2} = 0.6$ (P = 0. 1.1 6.8 $hi^{2} = 5.8$ (P = 0. 0.3 | 62 97 .38, df: 339) RP 470 0.00001 762 14.84, 470 0.0006 27.96. 119 46 625 19 19 46 625 299 7, df: 003) 16 80 80 80 80 97, df: 41) 30 30 97 70, df= | 36.7 = 1 (P = 32.4 1) df = 6 (l df = 3 (Mean 8.14 10.3 6.5 11 9.2 17.85 9.2 1 (P = l 3.5 9.9 1 (P = l | 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.01 0.5 0.5 0.5 12.4 18.5 0.5 0.5 12.4 18.5 0.000 12.4 18.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | 62 97 97 1410 1410 1870 0001), I 1870 0001), I 197 1964 100 264 80 264 80 264 80 264 80 264 80 264 80 264 80 264 80 264 80 264 80 80 80 80 80 80 80 80 80 80 80 80 80 | 12.7% 225% % 17.4% 17.4% 195% = 95% = 95% = 95% = 95% = 89.3% Weight 14.2% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.40, -0.44) -2.50 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.00 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.01 (-0.56, -0.76) -3.00 (+1.48, -1.483) -0.10 (-0.59, 0.39) -4.10 (-7.32, -0.88) -1.77 (-5.64, -2.10) -0.20 (-0.23, -0.17) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotat (95% C) Heterogeneiky, Tau*= Test for overall effect Pompe Subtotat (95% C) Heterogeneiky, Tau*= Test for overall effect Test for overall effect Test for subgroup L3.1 LRP Jafe Menard Pastore Subtotat (95% C) Heterogeneiky, Tau*= Test for overall effect Test for overall effect Test for overall effect L3.2 RARP Hung Subtotat (95% C) Heterogeneiky, Tau*= Test for overall effect L3.3 OP Paragkoulls Pailsaar Test for overall effect L3.3 OP Paragkoulls Pailsaar Test for overall effect L3.3 OP Paragkoulls Pailsaar Test for overall effect L3.3 MP Test for overall effect L3.4 MRC posedu Test for overall effect L3.3 MRC posedu Test for overall effect L3.4 MRC posedu Test for overall effect L3.3 MRC posedu Test for overall effect L3.4 MRC posedu Test for overall effect L3.3 MRC posedu L3.3 MRC posedu L3.4 MRC posedu L3.4 MRC posedu L3.4 MRC | 25.5 = 63.41; C = 0 after = 0 after = 23.44; C Z = 2.88 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 23.44; C Z = 2.89 = 2. | 15.8 $hi^{\mu} = 8$ (P = 0, 0.9) 2 $(P < 0, 0.9)$ 2 $(P < 0, 0.9)$ 2 $(P < 0, 0.9)$ 2 $(P = 0, 0.9)$ 4 $(P = 0, 0.9)$ 5 $(P = 0, 0.9)$ 5 $(P = 0, 0.9)$ 1.1 6.8 $hi^{\mu} = 5.8$ (P = 0, 0.3) 1.3 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | 62 97 38, df: 339) 762 14,84, 0,00000 762 14,84, 0,00000 27,96. Total 119 46 25 35 299 9,97, df: 800 96 62 299 96 535 299 96 535 299 97 96 410 80 96 96 80 96 80 96 80 96 80 96 80 96 80 96 80 96 80 96 96 80 96 96 96 96 96 96 96 96 96 96 97 97 97 97 97 96 97 97 96 97 97 96 97 96 96 96 96 96 96 96 96 96 96 96 96 96 | 36.7 32.4 1) df = 6 (l Mean 1) 10 10 10 10 10 10 10 10 10 10 | 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.01 0.5 0.5 0.5 12.4 18.5 0.5 0.5 12.4 18.5 0.000 12.4 18.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | 62 97 97 1410 1410 1870 0001); P Total 0001); I Total 19 59 59 64 25 5 35 964 964 964 964 964 964 964 964 964 80 264 80 264 80 264 80 80 264 80 80 80 80 80 80 80 80 80 80 80 80 80 | 12.7% 225% % 100.0% 17.4% 17.4% 17.4% 17.4% 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 0.4% 0.4% 0.9% 17.3% 17.3% 17.3% 17.4% 17.4% 17.4% 11 | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.40, -0.44) -2.50 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.00 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.01 (-0.56, -0.76) -3.00 (+1.48, -1.483) -0.10 (-0.59, 0.39) -4.10 (-7.32, -0.88) -1.77 (-5.64, -2.10) -0.20 (-0.23, -0.17) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 2.2.4 Mixed procedu Pompe Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Test for subgroup 1.3.1 LPP List for subgroup 1.3.1 LPP Subtotal (95% CI) Heterogeneiky, Tau*= Test for verall effect Test for overall effect 1.3.2 RARP Hung Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.3 OP Tragboulis Paissar Test for overall effect 1.3.3 OP Tragboulis Paissar Test for overall effect 1.3.4 Mixed procedu Pompe | 25.5 = 63.41; C = 0 after = 0 after = 23.44; C Z = 2.88 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 23.44; C Z = 2.84 = 23.44; C Z = 2.89 = 2. | 15.8 $hi^{\mu} = 8$ (P = 0, 0.9) 2 $(P < 0, 0.9)$ 2 $(P < 0, 0.9)$ 2 $(P < 0, 0.9)$ 2 $(P = 0, 0.9)$ 4 $(P = 0, 0.9)$ 5 $(P = 0, 0.9)$ 5 $(P = 0, 0.9)$ 1.1 6.8 $hi^{\mu} = 5.8$ (P = 0, 0.3) 1.3 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | 62 97 38, df: 339) 762 14,84, 0,00000 762 14,84, 0,00000 27,96. Total 119 46 25 35 299 9,97, df: 800 96 62 299 96 535 299 96 535 299 97 96 410 80 96 96 80 96 80 96 80 96 80 96 80 96 80 96 80 96 80 96 96 80 96 80 96 80 96 80 96 80 96 80 97 97 80 97 97 96 80 97 97 96 80 96 97 96 80 96 96 96 96 96 96 96 96 96 96 96 96 96 | 36.7 32.4 1) df = 6 (l Mean 1) 10 10 10 10 10 10 10 10 10 10 | 17.1 0.5 P < 0.00 P < 0.00 P < 0.00 P < 0.01 0.5 0.5 0.5 12.4 18.5 0.5 0.5 12.4 18.5 0.000 12.4 18.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | 62 97 97 1410 1410 1870 0001); P Total 199 594 199 5964 255 136 55 5964 9664 9064 907 264 = 0% | 12.7% 27.5% % 100.0% 17.4% 17.4% 17.4% 17.4% 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 0.4% 0.4% 0.9% 17.3% 17.3% 17.3% 17.4% 17.4% 17.4% 17.4% 11.4% 1 | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.40, -0.44) -2.50 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.00 (+1.40, -0.44) -2.49 (-2.98, -2.00) -2.01 (-0.56, -0.76) -3.00 (+1.48, -1.483) -0.10 (-0.59, 0.39) -4.10 (-7.32, -0.88) -1.77 (-5.64, -2.10) -0.20 (-0.23, -0.17) | TURP non-TURP Mean Difference |
| Palisaar Palisaar Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Pompe Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect Test for overall effect Test for subgroup 1.3.1 LRP Jaffe Menard Pastore Ramirez Backhaus Teber Yang Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.2 RARP Hung Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.3 OP Fragkoulis Paissar Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.3 OP Fragkoulis Paissar Subtotal (95% CI) Heterogeneiky, Tau*= Test for overall effect 1.3.4 Mixed procedu Pompe Subtotal (95% CI) | 25.5 63.41; (5 63.41; (7 7 7 8 11 11 11 12 12 13 11 12 13 14 15 15 15 15 15 15 15 15 15 15 | 15.8 $hi^{\mu} = 8$ (P = 0.0) 2 $(P < (C - 1)^{\mu} = 1$ $(P = 0.0)^{\mu} = 1$ $(P = 0.0)^{\mu} = 1$ $(P = 0.0)^{\mu} = 1$ $(P = 0.0)^{\mu} = 20$ $(P = 0.0)^{\mu} = 5.6.7$ $(P = 0.0)^{\mu} = 5.6.7$ | 62 97 338, df = 339) KRP 470 470 762 114,84, 0006) 27.96. 119 46 25 299 9.97, df = 35 299 9.97, df = 37, df = 3 | 36.7 32.4 1) df = 6 (l m Mean 10.3 6.5 11 9.44 10.49 = 5 (P = 1 17.855 9.2 1 (P = 1 3.5 9.9 1 (P = 1 7.2 1) | 17.1 0.5 P < 0.00 P < 0.00 (0.5) P < 0.00 (0.5) 0.000 12.4 18.5 5.9.9 12.4 18.5 10.000 12.4 11.5 11 | 62 97 ; = 88 1410 1870 0001); P 0001); P 0001); P 0001); P 1870 0001); P 1870 9001; P 1840 964 964 906 1366 55 562 97 97 = 83% 35 62 97 97 = 83% | 12.7% 22.5% % 17.4% 17.4% 19.5% 2.89.3% Weight 14.2% 14.2% 14.2% 14.2% 14.2% 14.2% 0.4% 0.4% 0.4% 0.9% 17.3% 23.4% 18.0% 18.0% | -11.20 (+17.00, 5.40) -5.19 (-16.95, 6.57) -1.30 (-1.39, -1.21) -1.30 (-1.39, -1.21) -6.93 (-10.89, -2.97) -6.93 (-10.89, -2.97) -0.05 (+1.4, -0.84) -2.50 (+1.6, -0.84) -2.49 (-2.98, -2.00) -2.00 (+1.9, -0.74) -2.49 (-2.98, -2.00) -2.010 (+0.59, -0.39) -4.10 (+7.32, -0.88) -1.77 (-5.64, -2.10) -0.20 (-0.23, -0.17) -0.20 (-0.23, -0.17) | TURP non-TURP Mean Difference |

Figure 2 Forest plot for (A) age; (B) prostate volume; (C) preoperative PSA. PSA, prostate-specific antigen.

| Study or Subgroup | Mean | JRP SD Tot | tal Mean | n-TURF SD | | Weight | Mean Difference IV, Fixed, 95% CI | Mean Difference IV, Fixed, 95% Cl |
|--|---|--|---|---|--|---|--|--|
| 1.4.1 LRP | moun | 50 10 | a mean | 30 | Total | reagant | | |
| Pastore | 24.68 | 2.32 | 25 25.58 | 1.43 | 25 | 25.4% | -0.90 [-1.97, 0.17] | • |
| Teber | 26.8 | | 55 25.2 | | 55 | 5.2% | 1.60 [-0.76, 3.96] | |
| Yang | 23.2 | | 35 23.2 | | 35 | 11.6% | 0.00 [-1.58, 1.58] | |
| Subtotal (95% CI) | | | 15 | | 115 | | -0.34 [-1.17, 0.48] | |
| Heterogeneity: Chi² = Test for overall effect: | | | | 3% | | | | |
| 1.4.2 RARP Hampton | 27.3 | 4 | 51 28 | 4.7 | 102 | 14.3% | -0.70 [-2.13, 0.73] | |
| Hung | 25.2 | | 16 24.5 | | 184 | 9.4% | 0.70 [-1.06, 2.46] | |
| Zugor | 26.8 | | 80 24.6 | | 80 | 2.3% | 2.20 [-1.36, 5.76] | |
| Subtotal (95% CI) | 20.0 | | 47 | 0.1 | 366 | 25.9% | 0.06 [-1.00, 1.12] | |
| Heterogeneity: Chi ² = Test for overall effect: | | 2 (P = 0. | 22); I ² = 3 | 3% | | 201070 | 0.00 [* 1.00, 112] | |
| 1.4.3 OP | 26.0 | 2.0 | | 2.0 | 25 | 0.70 | 0.50(4.00.0.00) | |
| Fragkoulis | 26.9 | | 35 26.4 | | 35 | 9.7% | 0.50 [-1.23, 2.23] | |
| Palisaar Subtotal (05% CI) | 27 | | 62 27 9 7 | 3.2 | 62 97 | 22.2% | 0.00 [-1.14, 1.14] | |
| Subtotal (95% Cl) Heterogeneity: Chi² = Test for overall effect: | | 1 (P = 0. | 64); I ² = 0 | % | 97 | 31.8% | 0.15 [-0.80, 1.11] | |
| Total (95% CI) | 7 70 46 | | 59 2011 IZ - 01 | v | 578 | 100.0% | -0.08 [-0.62, 0.46] | |
| Heterogeneity: Chi² = Test for overall effect: Test for subaroup diffe | Z = 0.30 (| (P = 0.77) |) | | 1). ² = (| 0% | | -100 -50 0 50 100 TURP non-TURP |
| В | τι | IRP | no | n-TURP | , | | Mean Difference | Mean Difference |
| Study or Subgroup | Mean | SD Tot | al Mean | SD | Total | Weight | IV, Fixed, 95% CI | IV, Fixed, 95% Cl |
| 1.5.1 LRP | | | | | | | | |
| Jaffe | 6 | 1.11 1 | 19 6 | 1 | 119 | 43.2% | 0.00 [-0.27, 0.27] | • |
| Menard | 5.8 | 0.9 | 46 6.1 | 1.1 | 594 | 41.2% | -0.30 [-0.57, -0.03] | |
| Teber | 7 | 2.2 | 55 7 | 3 | 55 | 3.2% | 0.00 [-0.98, 0.98] | |
| Yang | 6.5 | | 35 6.6 | 3.7 | 35 | 1.0% | -0.10 [-1.83, 1.63] | |
| Subtotal (95% CI) | | 2 | 55 | | 803 | 88.7% | -0.14 [-0.33, 0.05] | |
| Heterogeneity: Chi² = Test for overall effect: | | | | Х6 | | | | |
| 1.5.2 RARP | | | | | | | | |
| Luna | | | | | | | | |
| Hung | 6.63 | | | 1.08 | 184 | 11.3% | 0.04 [-0.48, 0.56] | |
| Subtotal (95% CI) | | | 16 6.59 16 | 1.08 | 184 184 | 11.3% 11.3 % | 0.04 [-0.48, 0.56] 0.04 [-0.48, 0.56] | |
| | plicable | | 16 | 1.08 | | | | |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: . Total (95% CI) | plicable Z = 0.15 (| (P = 0.88) 27 | 16) 71 | | 184 | | | |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: | plicable Z = 0.15 (2.83, df = Z = 1.34 (| (P = 0.88) 21 4 (P = 0. (P = 0.18) | 16 71 59); I ² = 0 ⁴ | Х | 184 987 | 11.3% 100.0% | 0.04 [-0.48, 0.56] | |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ² = Test for overall effect: | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: | (P = 0.88) 21 4 (P = 0. (P = 0.18) | 16 71 59); I ² = 0 ⁴ | % P = 0.5 | 184 987 | 11.3% 100.0% | 0.04 [-0.48, 0.56] | -100 -50 0 50 100 |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ² = Test for overall effect: Test for suboroup diffi C Study or Subgroup | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: TU | (P = 0.88) 27 4 (P = 0. (P = 0.18) Chi ² = 0.4 (RP | 16 71 59); I² = 0⁰ 11. df = 1 (non-TL | % P = 0.5 JRP | 184 987 2). ² = (| 11.3% 100.0%)% O | 0.04 [-0.48, 0.56] -0.12 [-0.30, 0.06] | -100 -50 0 50 100 TURP non-TURP |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ² = Test for overall effect: Test for subdroup diffe | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: TU Event | (P = 0.88) 27 4 (P = 0. (P = 0.18) Chi ² = 0.4 (RP | 16 71 59); I² = 0° 41. df = 1 (non-TL Events | % P = 0.5 JRP | 184 987 2). ² = (| 11.3% 100.0%)% DM ht M-H | 0.04 [-0.48, 0.56] -0.12 [-0.30, 0.06] odds Ratio | -100 -50 0 50 100 TURP non-TURP Odds Ratio |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ^a = Test for overall effect: Test for subaroup diffi C Study or Subgroup 1.6.1 LRP | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: TU <u>Event</u> | (P = 0.88) 2 4 (P = 0. P = 0.18) Chi ² = 0.4 RP <u>s Total</u> | 16 71 59); I ² = 0' 11. df = 1 (<u>non-TU</u> <u>Events</u> 3 | % P = 0.5 JRP Total | 184 987 2). ² = (Weig | 11.3% 100.0%)% <u>DM M-H</u> % 1 | 0.04 [-0.48, 0.56] -0.12 [-0.30, 0.06] odds Ratio , Fixed, 95% Cl | -100 -50 0 50 100 TURP non-TURP Odds Ratio |
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| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ² = Test for overall effect: Test for overall effect: Test for suboroup diffi C Study or Subgroup 1.6.1 LRP Jaffe Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect 1.6.2 RARP Hampton Hung Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect 1.6.3 Mixed procedt Pompe Subtotal (95% CI) Total events Heterogeneity: Not a | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: TU Event = 2.78, di t Z = 1.6 = 2.01, di t Z = 0.1; ure of OF | P = 0.88; 22; 24 (P = 0. P = 0.18; Chi ² = 0 RP s Total 3 119 0 55 174 3 (P = 0. 1 511 0 166 0 800 147 1 f = 2 (P = 2, 9 (P = 0. 1 3 470 470 3 3 9 | 16 59); ² = 0' 59); ² = 0' 11. df = 1 (non-TL Events 3 6 9 9 0.10); ² : 10) 0 12 1 1 1 1 3 0.37); ² : 85) RP 13 13 56) | % P = 0.5 JRP 119 55 174 = 64% 102 184 80 366 = 0% 1410 1410 | 184 987 2). ² = (| 11.3% 100.0% 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.04 [-0.48, 0.56] -0.12 [-0.30, 0.06] Adds Ratio [Fixed, 95% CI .00 [0.20, 5.06] .07 [0.00, 1.25] ← 36 [0.10, 1.23] 9 [0.24, 152.14] .42 [0.02, 7.39] .33 [0.11, 8.20] .88 [0.19, 3.82] .69 [0.20, 2.43] | -100 -50 0 50 100 TURP non-TURP Odds Ratio |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ² = Test for overall effect: Test for subgroup 1.6.1 LRP Jaffe Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect 1.6.2 RARP Hampton Hung Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect 1.6.3 Mixed procedu Pompe Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: TU Event = 2.78, df t Z = 1.6 t Z = 1.6 t Z = 0.1; ure of OF applicable t Z = 0.5; | P = 0.88; 4 (P = 0. P = 0.18; Chi ^p = 0.1 RP s Total 3 119 0 55 174 3 (P = 0. 1 51 0 16 0 80 0 80 9 (P = 0. - 2 (P = 0. - 2 (P = 0. - 2 (P = 0. - 3 4700 - 3 4700 - 3 4700 - 3 48 (P = 0. | 16 59); ² = 0' 59); ² = 0' 11. df = 1 (non-TL Events 3 6 9 9 0.10); ² : 10) 0 12 1 1 1 1 3 0.37); ² : 85) RP 13 13 56) | % P = 0.5 JRP 119 55 174 = 64% 102 184 80 366 = 0% 1410 1410 | 184 987 2). ² = (<u>Weig</u> 14.9 32.7 47.€ 10.4 7.6 19.6 32.8 32.8 | 11.3% 100.0% 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.04 [-0.48, 0.56] -0.12 [-0.30, 0.06] dds Ratio <u>, Fixed, 95% C1</u> .00 [0.20, 5.06] .07 [0.00, 1.25] ← .36 [0.10, 1.23] 9 [0.24, 152.14] .42 [0.02, 7.39] .33 [0.01, 8.20] .33 [0.01, 8.20] .86 [0.19, 3.82] .69 [0.20, 2.43] .69 [0.20, 2.43] | -100 -50 0 50 100 TURP non-TURP Odds Ratio |
| Subtotal (95% CI) Heterogeneity: Not ap Test for overall effect: Total (95% CI) Heterogeneity: Chi ² = Test for overall effect: Test for subgroup Study or Subgroup 1.6.1 LRP Jaffe Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect 1.6.2 RARP Hampton Hung Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² : Test for overall effect 1.6.3 Mixed procedt Pompe Subtotal (95% CI) Total events Heterogeneity: Not a Test for overall effect 1.6.3 Mixed procedt Pompe Subtotal (95% CI) Total events Heterogeneity: Not a Test for overall effect Total (95% CI) | plicable Z = 0.15 (2.83, df = Z = 1.34 (erences: TU Event = 2.78, dt t Z = 1.6 = 2.01, dt t Z = 0.1; ure of OF applicable t Z = 0.5; | P = 0.88) 22 P = 0.18) P = 0.18) Chi ² = 0.4 RP s Total 3 119 0 55 174 3 (P = 0. 1 511 0 16 0 807 1 51 0 16 0 807 1 477 1 477 1 470 3 470 3 88 (P = 0. 7 991 7 | 16 71 59); ² = 0 ⁻¹ 11. df = 1 (ron-T(Events 3 6 9 : 0.10); ² : 10) 0 12 1 13 : 0.37); ² : 85) RP 13 13 56) 35 | % P = 0.5 Total 119 55 174 174 102 184 80 366 = 0% 1410 1410 1410 1950 | 184 987 2). ² = (<u>Weig</u> 14.9 32.7 47.€ 10.4 7.6 19.6 32.8 32.8 | 11.3% 100.0% 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.04 [-0.48, 0.56] -0.12 [-0.30, 0.06] dds Ratio [Fixed, 95% CI .00 [0.20, 5.06] .07 [0.00, 1.25] ← 36 [0.10, 1.23] 3 [0.24, 152.14] .42 [0.02, 7.39] .33 [0.01, 8.20] 86 [0.19, 3.82] .69 [0.20, 2.43] 69 [0.20, 2.43] 57 [0.26, 1.21] | -100 -50 0 50 100 TURP non-TURP Odds Ratio |

Figure 3 Forest plot for (A) BMI; (B) biopsy Gleason score; (C) clinical stage \geq T3. BMI, body mass index.

А TURP non-TURP Mean Differ Moon Diffo Study or Subgrou 2.1.1 LRP Jaffe Menard Mean SD Total Mean SD Total Weight IV, Random, 95% Cl n, 95% CI
 179
 44
 119
 171
 38
 119
 13.2%
 8.00.1-2.45, 18.45

 250
 73
 46
 219
 74
 594
 8.0%
 31.00.19.08, 52.92

 135.35
 16.8
 25
 118.79
 16.4
 25
 13.8%
 16.561, 7.36, 25.76

 187
 46
 19
 90
 31.36
 7.8%
 12.00.12.43, 10.34

 200
 62.96
 55
 180
 44.44
 55
 8.6%
 40.00.19.63, 60.37

 262
 151.9
 35
 213
 73
 55
 420, 12.77, 116.77

 290
 90
 64
 52.8%
 17.33 [4.36, 30.28]
 Pastore Ramirez Backhaus -Teber Yang Subtotal (95% CI) Subtotal (95% CI) 964 Heterogeneity: Tau² = 153.26; Chi² = 16.25, df = 5 (P = 0.006); l² = 69% Testfor overall effect: Z = 2.62 (P = 0.009) 2.1.2 RARP Hung Zugor Subtotal (95% CI) 189.6 104.4 16 177 46.8 184 189 333.3 80 149 192.6 80 96 264
 2.4%
 12.60 [-39.00, 64.20]

 1.0%
 40.00 [-44.35, 124.35]

 3.4%
 20.06 [-23.96, 64.08]
 Subtotal (95% Cl) 96 Heterogeneity: Tau² = 0.00; Chi² = 0.29, df = 1 (P = 0.59); i² = 0% Test for overall effect: Z = 0.89 (P = 0.37) 2.1.3 OP Fragkoulis Palisaar Subtotal (95% CI)
 124
 20.6
 35
 103.1
 13
 35
 14.3%
 20.90 [12.83, 28.97]

 161
 32.5
 62
 159
 25.5
 62
 13.3%
 2.00 [48.28, 12.28]

 97
 97
 27.5%
 11.73 [-6.78, 30.24]
 Subtotal (95% Cl) 97 97 Heterogeneity: Tau² = 156.37; Chi² = 8.03, df = 1 (P = 0.005); l² = 88% Test for overall effect: Z = 1.24 (P = 0.21)
 2.1.4 Mixed procedure of OP and RARP

 Pompe
 19.48
 2.6
 470
 18.33
 1.2
 14.10
 16.3%

 Stubtotal (95%)
 Stubtotal (95%)
 140
 16.3%
 1.2
 14.10
 16.3%

 Test for versal lefter Z = 12.09 (P < 0.00001)</td>
 1400
 16.3%
 1.2
 14.10
 16.3%
 1.50 [1.26, 1.74] 1.50 [1.26, 1.74] Total (95% CI) 962 2735 100.0% 13.22 [4.55, 21.89]
 Total (95% CI)
 962
 2735
 100.0

 Heterogeneity: Tau² = 120.11; Chi² = 58.83, df = 10 (P < 0.00001); I² = 83%
 Test for overall effect: Z = 2.99 (P = 0.003)

 Test for subarouo differences: Chi² = 7.59, df = 3 (P = 0.06). I² = 60.5%
 Chi² = 7.59, df = 3 (P = 0.06). I² = 60.5%
 -100 -50 50 100 TURP non-TURP
 TURP
 non-TURP

 Stuckyor Subgroup
 Mean
 SD
 Total
 Mean
 SD
 Total
 Weinbt

 Z.2.1 LRP
 Jaffe
 458
 443
 119
 439
 366
 119
 9.1%

 Menard
 884
 565
 46
 756
 572
 60

 Pastore
 414.35
 40.07
 7
 414.35
 40.07
 7
 Mean Difference IV, Random, 95% Cl Mean Difference IV, Random, 95% Cl
 458
 443
 119
 439
 386
 119
 9.1%

 884
 585
 46
 756
 572
 594
 43%

 414.35
 486
 756
 572
 594
 43%

 450
 522.59
 25
 300
 370.37
 55
 43%

 450
 592.59
 55
 300
 370.37
 55
 43%

 231
 516.5
 25
 319
 185.2
 25
 44%

 205
 0.54
 0.56
 0.56
 139
 185.2
 28
 41.6%
 19.00 [-86.57, 124.57] 128.00 [-41.63, 297.63] 129.63 [104.50, 154.76] 150.00 [-34.68, 334.68] Teber Yang 231 518.5 35 139 185.2 S Subtotal (95% CI) 280 280 1 Heterogeneilly: Tau*= 143.51; Chi*= 4.19, df = 4 (P = 0.36); i*= 5% Testfor overall effect Z = 7.51 (P < 0.00001) 92.00 [-90.40, 274.40] 119.82 [88.56, 151.08] 2 2 2 RARD
 Z.2.2 (MadP)
 145
 161.4
 16
 183.2
 18.06
 184
 12.0%
 -38.20 [+117.33,40.93]

 Zugor
 165
 148.1
 100
 144
 703.7
 80
 5.4%
 21.00 [+36.56,178.56]

 Subtrati (95% CI)
 96
 96
 24
 17.5%
 -26.28 [+96.99,44.43]

 Heterogeneity: Tau'e
 0.00; Chi" = 0.43, df = (19.051); if = 0.95
 756
 756
 -26.28 [+96.99,44.43]
 2.2.3 OP
 312.9
 115.9
 35
 258.4
 108
 35
 15.6%
 54.50 [2.02, 106.98]

 790
 425
 62
 820
 500
 62
 5.2%
 -30.00 [-193.34, 133.34]

 97
 97
 20.7%
 46.59 [-3.37, 96.56]
 -Ilis Palisaar 790 425 62 820 500 Subtotal (95% CI) 97 Heterogeneity: Tau² = 0.00; Chi² = 0.93, df = 1 (P = 0.33); i² = 0% Test for overall effect: Z = 1.83 (P = 0.07)
 2.2.4 Mixed procedure of OP and RARP

 Pompe
 710.1
 22.8
 470
 665.9
 13.5
 1410
 20.2%

 Subtotal (95% CI)
 470
 1410
 20.2%
 44.20 [42.02, 46.38] 44.20 [42.02, 46.38] . Heterogeneity: Not applicable Test for overall effect: Z = 39.77 (P < 0.00001) 55.38 [12.35, 98.41] -100 -50 TURP С THRP non-TURP Odds Ratio Odds Ratio Study or Subgroup Events Total Events Total Weight M-H, Fixed, 95% CI 2.3.1 LRP M-H, Fixed, 95% Cl 4 119 4 119 1.00 (0.24, 4.10) Jaffe 5.8% 19 55 35 228 136 55 35 345
 1.00
 2.46 [0.24, 24.96]

 5.5%
 1.27 [0.32, 5.02]

 0.7%
 7.65 [0.38, 153.75]

 13.0%
 1.58 [0.68, 3.67]
 Ramirez Backhaus 3 Teber 5 3 ō Yang Subtotal (95% CI) 13 11 Total events Heterogeneity: Chi² = 1.70, df = 3 (P = 0.64); i² = 0% Test for overall effect: Z = 1.06 (P = 0.29) 2.3.2 RARP 3 9 132 7 184 1.78 (0.45. 7.09) Gupta 26 16 3.9%
 Subtat
 S
 2.0
 5
 1.5

 Hung
 0
 16
 7
 18

 Zugor
 1
 80
 0
 8

 Subtotal (95% CI)
 122
 39

 Total events
 4
 16

 Heterogeneity: Chi² = 0.47, df = 2 (P = 0.79); P = 0%
 16

 1.78
 0.72
 [0.45, 7.09]

 1.8%
 0.72
 [0.04, 13.12]

 0.7%
 3.04
 [0.12, 75.69]

 6.5%
 1.62
 [0.53, 4.97]
 0 80 396 Test for overall effect: Z = 0.85 (P = 0.40) 2.3.3 OP Fragkoulis Subtotal (95% CI) 4 35 35 3 35 35 1.38 [0.28, 6.66] 1.38 [0.28, 6.66] 4.0% 4**.0**% 4 3 Total events Heterogeneity: Not applicable Test for overall effect: Z = 0.40 (P = 0.69) 2.3.4 Mixed procedure of OP and RARP
 Pompe
 38
 470
 111
 1410
 76.5%
 1.03 [0.70, 1.51]

 Subtotal (95% Cl)
 470
 1410
 76.5%
 1.03 [0.70, 1.51]

 Total events
 38
 111
 Heterogeneity Mid antifacture
 Total events 38 Heterogeneity: Not applicable Test for overall effect: Z = 0.15 (P = 0.88) Total (95% CI) 855 2186 100.0% 1.15 [0.83, 1.59] Total events 59 141 Heterogeneity: Ch² = 3.22, df = 8 (P = 0.92); P = 0% Test for overall effect L = 0.86 (P = 0.39) Test for subaroup differences: Ch² = 1.28. df = 3 (P = 0.73); P = 0% 1 10 TURP non-TURP 0.01 100 0.1

Figure 4 Forest plot for (A) operative time; (B) estimated blood loss; (C) blood transfusion rates.

| Study or Subgroup | Evente | RP Total | non-TU Events | | Weigh | | dds Ratio Random, 95% Cl | м | Odds Ratio -H, Random, 95% Cl | |
|--|--|---|--|---|---|--|---|---------------------|----------------------------------|---|
| 2.4.1 LRP | Events | Total | LVEIIIS | rotal | vveign | n 191-F1, I | valuolii, 95% Cl | IVI | -n, Nanuom, 95% CI | |
| Jaffe | 64 | 119 | 34 | 119 | 18.19 | 6 | 2 01 11 70 4 001 | | | |
| | | | | | | | 2.91 [1.70, 4.98] | | | |
| Menard | 9 | | 56 | 594 | 14.09 | | 2.34 [1.07, 5.09] | | | |
| Teber | 5 | | 6 | 55 | 8.39 | | 0.82 [0.23, 2.85] | | | |
| Yang | 13 | | 4 | 35 | 8.39 | | .58 [1.32, 15.93] | | | |
| Subtotal (95% CI) | | 255 | | 803 | 48.79 | 6 | 2.44 [1.45, 4.09] | | - | |
| Total events | 91 | | 100 | | | | | | | |
| Heterogeneity: Tau ² : | = 0.09; Cł | ni² = 4.31 | , df = 3 (| P = 0.2 | 3); l ² = 3 | 30% | | | | |
| Test for overall effect | | | | | | | | | | |
| 2.4.2 RARP | | | | | | | | | | |
| Hung | 4 | | 20 | 184 | 8.5% | | 2.73 [0.80, 9.29] | | | |
| Zugor | 24 | | 10 | 80 | 13.49 | | 3.00 [1.33, 6.79] | | | |
| Subtotal (95% CI) | | 96 | | 264 | 21.99 | 6 | 2.92 [1.48, 5.75] | | | |
| Total events | 28 | | 30 | | | | | | | |
| Heterogeneity: Tau ² Test for overall effect | | | | P = 0.9 | 0); I ² = (|)% | | | | |
| 2.4.3 OP | | | | | | | | | | |
| Fragkoulis | 5 | 35 | 5 | 35 | 7.69 | 6 | 1.00 [0.26, 3.81] | | | |
| Subtotal (95% CI) | | 35 | | 35 | 7.69 | | 1.00 [0.26, 3.81] | | | |
| Total events | 5 | | 5 | | | | | | | |
| Heterogeneity: Not a Test for overall effect | pplicable | | | | | | | | | |
| 2.4.4 Mixed procedu | ure of OP | and RAF | P | | | | | | | |
| Pompe | 58 | | | 1410 | 21.89 | 6 | 1.14 [0.83, 1.57] | | +- | |
| Subtotal (95% CI) | 50 | 470 | 155 | 1410 | 21.89 | | 1.14 [0.83, 1.57] | | • | |
| Total events | 58 | | 155 | 1410 | 21.07 | v | | | T | |
| | | | 155 | | | | | | | |
| Heterogeneity: Not a | | /D = 0.4 | 2) | | | | | | | |
| Test for overall effect | ı. ∠ = 0.80 | (F = 0.4) | 3) | | | | | | | |
| Total (05% CI) | | 856 | | 2542 | 100.09 | | 1 00 11 27 2 001 | | ▲ | |
| Total (95% CI) | 400 | | 200 | 2012 | 100.0% | ro | 1.98 [1.27, 3.08] | | - | |
| Total events | 182 | | 290 | | | | | | | |
| Heterogeneity: Tau ² | | | | (P = 0. | 02); I* = | 59% | | 0.01 0.1 | 1 10 | 1 |
| Test for overall effect | | | | | | | | | TURP non-TURP | |
| Test for subaroup di | fferences | : Chi ² = 1 | 0.18. df | = 3 (P = | = 0.02). | $l^2 = 70.5$ | % | | | |
| В | | IRP | | on-TUR | n | | Mean Difference | | Mean Difference | |
| Study or Subgroup | Mean | | al Mea | | | Weight | IV, Fixed, 95% Cl | | IV, Fixed, 95% Cl | |
| 2.5.1 LRP | | | | | | | | | | |
| Eloli Ela | | | | | | | | | | |
| laffo | 6.6 | 2 1 | 10 6 2 | 3 2 2 | 110 | 67 206 | 1 21 0 62 1 00 | | | |
| Jaffe Monord | 6.5 | | 19 5.2 | | | 57.3% | 1.21 [0.53, 1.89] | | | |
| Menard | 6.5 8.7 | 4.1 | 46 6. | | 594 | 18.2% | 2.00 [0.79, 3.21] | I | | |
| Menard Subtotal (95% Cl) | 8.7 | 4.1 4 | 46 6. 65 | 7 2.8 | | | | I | | |
| Menard Subtotal (95% Cl) Heterogeneity: Chi ² = | 8.7 1.25, df = | 4.1 4 10 1 (P = 0. | 46 6.1 55 26); I² = 2 | 7 2.8 | 594 | 18.2% | 2.00 [0.79, 3.21] | I | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ² = Test for overall effect: | 8.7 1.25, df = | 4.1 4 10 1 (P = 0. | 46 6.1 55 26); I² = 2 | 7 2.8 | 594 | 18.2% | 2.00 [0.79, 3.21] | I | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ² = Test for overall effect: 2.5.2 RARP | 8.7 1.25, df= : Z = 4.64 (| 4.1 1 1 (P = 0. P < 0.000 | 46 6. 55 26); I ² = 2 001) | 7 2.8 20% | 594 713 | 18.2% 75.5% | 2.00 (0.79, 3.21) 1.40 (0.81, 1.99) | | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ² = Test for overall effect: 2.5.2 RARP Hung | 8.7 1.25, df = | 4.1 (P = 0. P < 0.000 | 46 6. 55 26); I ² = 2 001) 16 3.7 | 7 2.8 | 594 713 184 | 18.2% 75.5% 24.5% | 2.00 (0.79, 3.21) 1.40 (0.81, 1.99) 0.42 (-0.62, 1.46) | 1 | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ² = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) | 8.7 : 1.25, df= : Z = 4.64 (4.19 | 4.1 (P = 0. P < 0.000 | 46 6. 55 26); I ² = 2 001) | 7 2.8 20% | 594 713 | 18.2% 75.5% 24.5% | 2.00 (0.79, 3.21) 1.40 (0.81, 1.99) | 1 | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ² = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ap | 8.7 : 1.25, df = : Z = 4.64 (4.19 2 oplicable | 4.1 1 (P = 0. P < 0.000 | 46 6. 55 26); I ² = 2 001) 16 3.7 16 | 7 2.8 20% | 594 713 184 | 18.2% 75.5% 24.5% | 2.00 (0.79, 3.21) 1.40 (0.81, 1.99) 0.42 (-0.62, 1.46) | 1 | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ² = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) | 8.7 : 1.25, df = : Z = 4.64 (4.19 2 oplicable | 4.1 1 (P = 0. P < 0.000 | 46 6. 55 26); I ² = 2 001) 16 3.7 16 | 7 2.8 20% | 594 713 184 | 18.2% 75.5% 24.5% | 2.00 (0.79, 3.21) 1.40 (0.81, 1.99) 0.42 (-0.62, 1.46) | 1 | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi≇= Test for overall effect 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: | 8.7 : 1.25, df = : Z = 4.64 (4.19 2 oplicable | 4.1 1(P = 0. P < 0.000 2.01 (P = 0.43) | 46 6. 55 26); I [≠] = 2 001) 16 3.7 16 | 7 2.8 20% | 594 713 184 184 | 18.2% 75.5% 24.5% 24.5% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] | | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi [≆] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) | 8.7 : 1.25, df= : Z = 4.64 (4.19 : 2 = 0.79 (| 4.1 4 10 1 (P = 0. P < 0.000 2.01 7 (P = 0.43) 14 | 46 6. 55 26); I ² = 2 001) 16 3.7 16 31 | 7 2.8 20% 7 2.26 | 594 713 184 184 | 18.2% 75.5% 24.5% | 2.00 (0.79, 3.21) 1.40 (0.81, 1.99) 0.42 (-0.62, 1.46) | | | |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = | 8.7 : 1.25, df = : Z = 4.64 (4.19 : Z = 0.79 (: 3.84, df = | 4.1 (P = 0. P < 0.001 2.01 (P = 0.43) P = 0.43) 14 2 (P = 0. | 46 6. 55 26); ² = 2 001) 16 3.7 16 31 15); ² = 4 | 7 2.8 20% 7 2.26 | 594 713 184 184 | 18.2% 75.5% 24.5% 24.5% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] | | 0 50 | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi≇ = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Total (95% CI) Heterogeneity: Chi≇ = Test for overall effect: | 8.7 1.25, df= Z = 4.64 (4.19 2 = 0.79 (3.84, df= Z = 4.42 (| 4.1 (P = 0. P < 0.001 2.01 (P = 0.43) P = 0.43) 14 2 (P = 0. P < 0.001 | 46 6. 55 26); ² = 2 001) 16 3.7 16 31 15); ² = 4 001) | 7 2.8 20% 7 2.26 18% | 594 713 184 184 897 | 18.2% 75.5% 24.5% 24.5% 100.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] | | URP non-TURP | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi [≆] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) | 8.7 1.25, df= Z = 4.64 (4.19 2 = 0.79 (3.84, df= Z = 4.42 (| 4.1 (P = 0. P < 0.001 2.01 (P = 0.43) P = 0.43) 14 2 (P = 0. P < 0.001 | 46 6. 55 26); ² = 2 001) 16 3.7 16 31 15); ² = 4 001) | 7 2.8 20% 7 2.26 18% | 594 713 184 184 897 | 18.2% 75.5% 24.5% 24.5% 100.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] | | | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not a; Test for overall effect Total (95% CI) Heterogeneity: Chi [™] = Test for overall effect Test for subaroup diff | 8.7 Z = 4.64 (4.19 2 opplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: 0 | 4.1 $(P = 0.7)$ P < 0.001 2.01 $(P = 0.43)$ P = 0.43) 19 2 (P = 0.4 P < 0.001 Chi ² = 2.5 IRP | 46 6. 55 26); ² = 2 001) 16 3.7 16 31 15); ² = 4 001) 59. df = 1 n | 7 2.8 20% 7 2.26 18% (P = 0.1 on-TUR | 594 713 184 184 897 11). ² = | 18.2% 75.5% 24.5% 24.5% 100.0% 61.3% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference | -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^p = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect Total (95% CI) Heterogeneity: Chi ^p = Test for overall effect Test for subarouo diff | 8.7 Z = 4.64 (4.19 2 opplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: 0 | 4.1 $(P = 0.7)$ P < 0.001 2.01 $(P = 0.43)$ P = 0.43) 19 2 (P = 0.4 P < 0.001 Chi ² = 2.5 IRP | 46 6. 55 26); ² = 2 001) 16 3.7 16 31 15); ² = 4 001) 59. df = 1 n | 7 2.8 20% 7 2.26 18% (P = 0.1 on-TUR | 594 713 184 184 897 11). ² = | 18.2% 75.5% 24.5% 24.5% 100.0% 61.3% | 2.00 [0,79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] | -100 -50 | TURP non-TURP | |
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| Menard Subtotal (95% CI) Heterogeneity: Chi ^p = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect Total (95% CI) Heterogeneity: Chi ^p = Test for overall effect Test for subaroup diff C | 8.7 Z = 4.64 (4.19 Z = 0.79 (3.84, df = Z = 4.42 (ferences: (| 4.1 1 (P = 0. P < 0.001 2.01 P = 0.43) P = 0.43) 11 2 (P = 0. P < 0.001 Chi ² = 2.5 IRP <u>SD Tot</u> | 46 6. 55 26); ² = 2 001) 16 3.7 16 31 15); ² = 4 001) 59. df = 1 n | 7 2.8 20% 7 2.26 88% (P = 0.1 0 n-TUR 1 SD | 594 713 184 184 897 11). I ² = <u>P</u> Total | 18.2% 75.5% 24.5% 24.5% 100.0% 61.3% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference | -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi [₽] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect: Total (95% CI) Heterogeneity: Chi [₽] = Test for overall effect: Test for subarouu diff C Study or Subaroup 2.6.1 LRP | 8.7 1.25, df = Z = 4.64 (4.19 2 = 0.79 (3.84, df = Z = 4.42 (ferences: (TU Mean | 4.1 10 11 ($P = 0$. P < 0.000 2.01 P = 0.43) P = 0.43) 2 (P = 0.000 $Chi^2 = 2.6$ IRP SD Tot 8.4 | 46 6. 55 26); ² = 2 2001) 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 5.7 31 16 5.1 16 3.7 16 5.1 16 3.7 16 3.7 17 4 10 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 17 4 3.7 18 4 3.7 18 4 3.7 18 4 3.7 18 4 3.7 18 4 3.7 19 4 3.7 19 4 3.7 10 5.7 10 5. | 7 2.8 20% 7 2.26 88% (P = 0.1 0 n-TUR 1 SD | 594 713 184 184 897 11). I ² = <u>P</u> <u>Total</u> 594 | 18.2% 75.5% 24.5% 24.5% 100.0% 61.3% Weight | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV. Fixed, 95% Cl 2.90 [0.43, 5.37] | -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not a; Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = Test for overall effect Test for subaroup diff C Study or Subgroup Ze6.1 LRP Menard | 8.7 1.25, df = 2 = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: (TU Mean 8.7 | 4.1 10 11 ($P = 0$. P < 0.001 2.01 P = 0.43) P = 0.43) 14 2 ($P = 0$. P < 0.00 Chi ² = 2.5 IRP SD Tot 8.4 3.04 | 46 6. 55 26); ² = 2 2001) 16 3.7 16 3.7 17 4.7 18 4.7 | 7 2.8 20% 7 2.26 18% (P = 0.1 0 n-TUR 1 <u>SD</u> 3 5.6 | 594 713 184 184 897 11). I ² = <u>P</u> <u>Total</u> 594 25 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] | -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi ^P = Test for overall effect: Test for subaroup diff C Study or Subgroup 2.6.1 LRP Menard Pastore | 8.7 1.25, df = Z = 4.64 (4.19 2 2 = 0.79 (3.84, df = 2 = 4.42 (ferences: (TU Mean 8.7 8.66 3 | 4.1 11 1 ($P = 0.$ P < 0.000 2.01 P = 0.43) 14 2 ($P = 0.$ P < 0.000 Chi ² = 2.5 IRP SD Tot 8.4 3.04 15.6 | 46 6. 55 26); ² = 2 2001) 16 3.7 16 3.7 17 4.7 18 4.7 | 7 2.8 20% 7 2.26 48% (P = 0.1 0 n-TUR 1 SD 3 5.6 5 1.94 | 594 713 184 184 897 11). I [₽] = <u>P</u> <u>Total</u> 594 25 | 18.2% 75.5% 24.5% 24.5% 61.3% <u>Weight</u> 0.0% 0.1% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] | -100 -50 | TURP non-TURP Mean Difference | 1 |
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| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = Test for overall effect Test for subgroup Subtotal (95% CI) Menard Pastore Teber Subtotal (95% CI) | 8.7 2.2 = 4.64 (4.19 2 oplicable 2.2 = 0.79 (3.84, df = 2.2 = 4.42 (ferences:: TU Mean 8.7 8.66 2 7 1 1.85, df = | 4.1 $(P = 0, P < 0.001)$ P = 0.43) P = 0.43) P = 0.43) P < 0.001 $Chi^{2} = 2.6$ IRP SD Tot 8.4 $(2, P)$ 15.6 $(2, 1)$ 12, 2, (P = 0, 2) 12, (P = 0 | 446 6. 55 001) 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 15 15); ² = 4 001) 59. df = 1 n 14 6 5. 25 7.5 55 56 26 40); ² = (1) | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 5 1.94 7 11.9 | 594 713 184 184 897 111). I ² = P Total 594 25 55 | 18.2% 75.5% 24.5% 24.5% 61.3% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference <u>IV. Fixed, 95% CI</u> 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] | -100 -50 | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi ^P = Test for overall effect: Test for subaroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.2 RARP | 8.7 2.2 4.64 (4.19 2 2.2 4.64 (4.19 2 2.2 4.64 (3.84, df = .2 4.42 (ferences: 1 TU Mean 8.7 8.66 2 7 1 1.85, df = .2 2.41 (| 4.1 (1) 11 (P = 0.000 2.01 (2) P = 0.43) P = 0.43) P = 0.000 Chi ² = 2.5 RP 8.4 (3) 8.4 (2) 8.4 (2) 2.2 (P = 0.22) RP = 0.022) | 466 6. 555 (P = 7 3001) 16 3.7 16 31 15) (P = 4 39. df = 1 n 16 50. df = 1 n 46 5. 55 55 55 55 56 40) (P = 4 10 10 10 10 10 10 10 10 10 10 | 7 2.8 200% 7 2.26 18% (P = 0.' 0 n-TUR 1 SD 3 5.6 5 1.94 7 11.9 | 594 713 184 184 897 11). ² = | 18.2% 75.5% 24.5% 100.0% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV. Fixed, 95% CI 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] | - -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = Test for overall effect C Study or Subgroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.6.2 RARP Hung | 8.7 Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: (TU Mean 8.7 1.85, df = Z = 2.41 (9.31 2 | 4.1 (11) 1 (P = 0.001) 2.01 $(2 + 0.001)$ 2.01 $(2 + 0.001)$ 1 (P = 0.001) 1 (2 + 0.001) | 466 6. 525); P= 2 1001) 16 3.7 16 3.7 16 31 15); P= 4 15); P= 4 15); P= 4 15); P= 4 15); P= 4 15); P= 4 15); P= 4 16 1001) 16 1001) 17 16 16 1001) 1001 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 5 1.94 7 11.9 9% 9 2.57 | 594 713 184 184 897 11). ² = p <u>Total</u> 594 25 55 674 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference <u>IV. Fixed, 95% CI</u> 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] | | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneihy: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneihy: Not ar Test for overall effect: Total (95% CI) Heterogeneihy: Chi ^P = Test for overall effect Test for subarouo diff C Study or Subgroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneihy: Chi ^P = Test for overall effect 2.6.2 RARP Hung Zugor | 8.7 2.2 4.64 (4.19 2 2.2 4.64 (4.19 2 2.2 4.64 (3.84, df = .2 4.42 (ferences: 1 TU Mean 8.7 8.66 2 7 1 1.85, df = .2 2.41 (| 4.1 \rightarrow 11 1 (P = 0, 11 2.01 \rightarrow 2.00 P = 0.43) 11 2 (P = 0, 43) 12 (P = 0, 43) 14 2 (P = 0, 43) 15.6 \pm 12 2 (P = 0, 02) 2 2 (P = 0, 02) 2.82 \pm 15.6 \pm | 466 6. 555; P= 2 0001) 16 3.7 16 31 15); P= 4 001) 39. df= 1 15); P= 4 001) 39. df= 5. 25 7.5 26 40; P= (1, 1) 16 5. 26 46 5. 25 7.5 26 40 5. 26 40 5. 26 5. 27 5. 26 5. 27 5. 26 5. 20 5. 2 | 7 2.8 200% 7 2.26 18% (P = 0.' 0 n-TUR 1 SD 3 5.6 5 1.94 7 11.9 | 594 713 184 897 111). * = p Total 594 25 55 674 184 80 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] | -100 -50 | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneihy: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneihy: Not ar Test for overall effect: Total (95% CI) Heterogeneihy: Chi ^P = Test for overall effect Test for subarouo diff C Study or Subgroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneihy: Chi ^P = Test for overall effect 2.6.2 RARP Hung Zugor | 8.7 Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: (TU Mean 8.7 1.85, df = Z = 2.41 (9.31 2 | 4.1 \rightarrow 11 1 (P = 0, 11 2.01 \rightarrow 2.00 P = 0.43) 11 2 (P = 0, 43) 12 (P = 0, 43) 14 2 (P = 0, 43) 15.6 \pm 12 2 (P = 0, 02) 2 2 (P = 0, 02) 2.82 \pm 15.6 \pm | 466 6. 525); P= 2 1001) 16 3.7 16 3.7 16 31 15); P= 4 15); P= 4 15); P= 4 15); P= 4 15); P= 4 15); P= 4 15); P= 4 16 1001) 16 1001) 17 16 16 1001) 1001 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 5 1.94 7 11.9 9% 9 2.57 | 594 713 184 184 897 11). ² = p <u>Total</u> 594 25 55 674 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference <u>IV. Fixed, 95% CI</u> 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] | -100 -50 | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^p = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi ^p = Test for overall effect: Test for subaround iff C Study of Subgroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) | 8.7 1.25, df = Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: t TU Mean 8.6 7 1 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = | 4.1 (1) 11 (P = 0.001 2.01 (2) P = 0.011 2.01 (2) P = 0.011 2 (P = 0.012 11 (2 (P = 0.012)) 12 (P = 0.02) 13.04 (2) P = 0.02) 2 (P = 0.02) | 466 6. 525); P = 2 1001) 16 3.7 16 3.7 16 15); P = 4 15); P = 4 16 1001) 16 1001) 17 16 16 1001) 17 16 16 1001) 17 16 1001) 17 10010 | 7 2.8 20% 7 2.26 18% (P = 0. 1 SD 65 1.94 7 11.9 3 5.6 5 1.94 7 11.9 3 2.57 2 0.74 | 594 713 184 897 111). * = p Total 594 25 55 674 184 80 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] | -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = Subtotal (95% CI) Heterogeneity: Chi [™] = Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.6.2 RARP Hung Zugor Subtotal (95% CI) Heterogeneity: Chi [™] = | 8.7 Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: 4 TU Mean 8.7 8.66 2 7 1 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (| 4.1 (1) 11 (P = 0.001 2.01 (2) P = 0.031 (2.01 (2) P = 0.031 (2.01 (2) P = 0.031 (2.01 (2) P = 0.031 (2.01 (2) P = 0.031 (2.02 (2) P = 0.032 (2.02 (2) P = 0.032 (2.03 (2) P = 0.032 (2.04 (2) P = 0.032 (2.04 (2) P = 0.032 (2.05 (2) P = 0.0 | 466 6. 525 (P = 2 1001) 16 3.7 16 3.7 16 131 15) (P = 4 1001) 199. df = 1 10 10 10 10 10 10 10 10 10 1 | 7 2.8 20% 7 2.26 18% (P = 0. 1 SD 65 1.94 7 11.9 3 5.6 5 1.94 7 11.9 3 2.57 2 0.74 | 594 713 184 897 111). * = p Total 594 25 55 674 184 80 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.0% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] | -100 -50 | TURP non-TURP Mean Difference | |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi ^P = Test for overall effect Test for overall effect C Study of Subgroup 2.6.1 LRP Menard Pastore Teber Teber Teber Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect 2.6.2 RARP Hung Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect 2.6.3 Mixed procedur Pompe | 8.7 Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: (TU Mean 8.6 7 1 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (re of OP a | 4.1 \rightarrow 11 1 (P = 0.001 2.01 \rightarrow 2.01 \rightarrow P = 0.43) 11 2 (P = 0. 43) 11 2 (P = 0.02) REP SD Tof 8.4 \rightarrow 3.04 \div 12 2 (P = 0.02) 2.82 \rightarrow 12 1 (P = 0.42) 1 (P = 0.46) 1 (P = 0.46) | 466 6. 2017 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 7 11.9 3 5.5 1.94 7 11.9 9 2.57 2 0.74 | 594 713 184 897 11). ² = p Total 594 25 55 674 184 80 264 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.1% 0.1% 99.8% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] 0.50 [-0.82, 1.82] 0.60 [0.56, 0.64] | -100 -50 | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi [₽] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi [₽] = Test for overall effect: 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneity: Chi [₽] = Test for overall effect: 2.6.2 RARP Hung Zugor Subtotal (95% CI) Heterogeneity: Chi [₽] = Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) | 8.7 1.25, df = Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: TU Mean 8.7 8.66 2 7 1 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (re of OP a 12.4 | 4.1 \rightarrow 11 1 (P = 0.001 2.01 \rightarrow 2.01 \rightarrow P = 0.43) 11 2 (P = 0. 43) 11 2 (P = 0.02) REP SD Tof 8.4 \rightarrow 3.04 \div 12 2 (P = 0.02) 2.82 \rightarrow 12 1 (P = 0.42) 1 (P = 0.46) 1 (P = 0.46) | 466 6. 525); P = 2 1001) 16 3.7 16 3.7 16 15); P = 4 15); P = 4 16 16 16 16 16 16 16 16 16 16 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 7 11.9 3 5.5 1.94 7 11.9 9 2.57 2 0.74 | 594 713 184 184 897 11). ² = | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.0% 0.1% 0.1% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] 0.50 [-0.82, 1.82] 0.60 [0.56, 0.64] | -100 -50 | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = Subtotal (95% CI) Heterogeneity: Chi [™] = Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.6.2 RARP Hung Zugor Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.6.3 Mixed proceduu Pompe Subtotal (95% CI) | 8.7 1.25, df = Z = 4.64 (4.19 2 opticable Z = 0.79 (3.84, df = Z = 4.42 (ferences: 0 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (re of OP a 12.4 opticable | 4.1 (1) 1 (P = 0.001 2.01 (2) P = 0.001 2.01 (2) P = 0.001 1 (2) P = 0.001 2 (P = 0.01) 2 (P = 0.02) 2 (P = 0.02) | 466 6. 525); P = 2 1001) 16 3.7 16 3.7 16 15); P = 4 15); P = 4 15); P = 4 15); P = 4 15); P = 4 16 15); P = 4 16 16 16 15); P = 4 16 16 16 16 16 16 16 16 16 16 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 7 11.9 3 5.5 1.94 7 11.9 9 2.57 2 0.74 | 594 713 184 897 11). ² = p Total 594 25 55 674 184 80 264 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.1% 0.1% 99.8% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% Cl 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] 0.50 [-0.82, 1.82] 0.60 [0.56, 0.64] | -100 -50 | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi ^P = Test for overall effect: C Study or Subgroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.2 RARP Hung Zugor Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: 2.6.3 Mixed procedur Pompe | 8.7 1.25, df = Z = 4.64 (4.19 2 opticable Z = 0.79 (3.84, df = Z = 4.42 (ferences: 0 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (re of OP a 12.4 opticable | 4.1 (1) 1 (P = 0.001 (2.01 (2) = 0.001 (2.02 (2) = 0.001 (2.0 | 466 6. 555 (P= 2) 1001) 16 3.7 16 31 15); P= 4 1001) 99. df = 1 10 1001) 99. df = 1 10 10 10 10 10 10 10 10 10 1 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 7 11.9 3 5.5 1.94 7 11.9 9 2.57 2 0.74 | 594 713 184 184 897 11). ² = p Total 25 55 674 184 80 264 1410 1410 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 99.8% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% CI 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] 0.50 [-0.82, 1.82] 0.60 [0.56, 0.64] 0.60 [0.56, 0.64] | | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect: Total (95% CI) Heterogeneity: Chi [™] = Subtotal (95% CI) Heterogeneity: Chi [™] = Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.6.2 RARP Hung Zugor Subtotal (95% CI) Heterogeneity: Chi [™] = Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) Heterogeneity: Not aş Test for overall effect: 2.6.3 Mixed procedur Pompe | 8.7 1.25, df = Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences: (TU Mean 8.6 7 1 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (re of OP a 12.4 oplicable Z = 29.84 | 4.1 (1) 1 (P = 0.001 2.01 (2) P = 0.031 2 (P = 0.43) 11 2 (P = 0. RP = 0.43) 12 (P = 0.01) 8.4 (2) P = 0.021 2 (P = 0.021) 2.82 (2) P = 0.021 2.82 (2) P = 0.021 1 (P = 0.021) 1 (P = 0.01) 1 (P = 0.01) | 466 6. 6. 525 (P = 2) 1001) 101 101 101 101 101 101 101 101 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 7 11.9 3 2.57 7 11.9 9 3 2.57 2 0.74 10% 3 0.3 | 594 713 184 184 897 11). ² = p Total 25 55 674 184 80 264 1410 1410 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.1% 0.1% 99.8% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% CI 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] 0.50 [-0.82, 1.82] 0.60 [0.56, 0.64] 0.60 [0.56, 0.64] | | TURP non-TURP Mean Difference | 1 |
| Menard Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.5.2 RARP Hung Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: Total (95% CI) Heterogeneity: Chi ^P = Test for overall effect: C Study or Subgroup 2.6.1 LRP Menard Pastore Teber Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.2 RARP Hung Zugor Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) Heterogeneity: Chi ^P = Test for overall effect: 2.6.3 Mixed procedur Pompe Subtotal (95% CI) Heterogeneity: Not ar Test for overall effect: 2.6.3 Mixed procedur Pompe | 8.7 1.25, df = Z = 4.64 (4.19 2 oplicable Z = 0.79 (3.84, df = Z = 4.42 (ferences:) TU Mean 8.7 8.66 2 7 1 1.85, df = Z = 2.41 (9.31 2 6.8 1 0.46, df = Z = 0.75 (re of OP a 1.2.4 oplicable Z = 29.84 4.37, df = | 4.1 (1) 1 (P = 0.001 2.01 (2) (P = 0.43) 112 (P = 0.43) 112 (P = 0.43) 112 (P = 0.02) 112 (P = 0.02) 115.6 (2) 115.6 (2) 112 (P = 0.02) 112 (P = 0.02) (P = 0.02 | 466 6. 2 525 (P = 2 1001) 16 3.7 16 3.7 16 31 1 15 (P = 4 15 (P = 4 15 (P = 4 15 (P = 4 15 (P = 4) 15 (P = 4) 16 (P = 4) 16 (P = 4) 17 | 7 2.8 20% 7 2.26 18% (P = 0.' 1 SD 3 5.6 7 11.9 3 2.57 7 11.9 9 3 2.57 2 0.74 10% 3 0.3 | 594 713 184 184 897 11). ² = p Total 25 55 674 184 80 264 1410 1410 | 18.2% 75.5% 24.5% 24.5% 61.3% Weight 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 99.8% | 2.00 [0.79, 3.21] 1.40 [0.81, 1.99] 0.42 [-0.62, 1.46] 0.42 [-0.62, 1.46] 1.16 [0.65, 1.67] Mean Difference IV, Fixed, 95% CI 2.90 [0.43, 5.37] 1.11 [-0.30, 2.52] 0.00 [-5.19, 5.19] 1.47 [0.28, 2.66] 0.31 [-1.12, 1.74] 1.60 [-1.82, 5.02] 0.50 [-0.82, 1.82] 0.60 [0.56, 0.64] 0.60 [0.56, 0.64] | | TURP non-TURP | 1 |

Figure 5 Forest plot for (A) complication rates; (B) hospital stay; (C) duration of catheter.

| 4 | TURF | | non-TU | | | Odds Ratio | Odds Ratio | |
|--|---|--|--|---|--|--|------------------------------|----|
| Study or Subgroup | Events | TOTAL | vents | rotal | weight | M-H, Random, 95% Cl | M-H, Random, 95% Cl | |
| 3.1.1 LRP | | | ~~ | | | | | |
| Jaffe | 35 | 119 | 33 | 119 | 12.0% | 1.09 [0.62, 1.91] | | |
| Menard | 7 | 46 | 249 | 594 | 9.0% | 0.25 [0.11, 0.57] | | |
| Pastore | 17 | 25 | 19 | 25 | 5.6% | 0.67 [0.19, 2.33] | | |
| Ramirez Backhaus | 4 | 19 | 31 | 136 | 6.0% | 0.90 [0.28, 2.92] | | |
| Teber | 13 | 55 | 14 | 55 | 8.5% | 0.91 [0.38, 2.16] | | |
| Yang | 10 | 35 | 5 | 35 | 5.9% | 2.40 [0.72, 7.95] | | |
| Subtotal (95% CI) | | 299 | | 964 | 47.1% | 0.81 [0.45, 1.48] | - | |
| Total events | 86 | | 351 | | | | | |
| Heterogeneity: Tau ² = Test for overall effect: 3 | | | | (P = 0. | 03); I² = 6 | 0% | | |
| 3.1.2 RARP | | | | | | | | |
| Gupta | 3 | 26 | 33 | 132 | 5.5% | 0.39 [0.11, 1.39] | | |
| Hampton | 13 | 51 | 15 | 102 | 8.9% | 1.98 [0.86, 4.57] | | |
| Hung | 12 | 16 | 110 | 184 | 6.1% | 2.02 [0.63, 6.50] | | |
| Zugor | 24 | 80 | 10 | 80 | 9.1% | 3.00 [1.33, 6.79] | | |
| Subtotal (95% CI) | 24 | 173 | | 498 | 29.4% | 1.62 [0.75, 3.52] | | |
| | 52 | 115 | 160 | 450 | 23.470 | 1.02 [0.7 5, 5.52] | | |
| Total events Heterogeneity: Tau² = Test for overall effect: J | 0.36; Chi | | | P = 0.0 | 6); I² = 59 | % | | |
| 3.1.3 OP | | | , | | | | | |
| Fragkoulis | 12 | 35 | 11 | 35 | 7.4% | 1.14 [0.42, 3.09] | _ | |
| Subtotal (95% CI) | | 35 | | 35 | 7.4% | 1.14 [0.42, 3.09] | - | |
| Total events | 12 | | 11 | | | | | |
| Heterogeneity: Not ap | . – | | | | | | | |
| Test for overall effect: . | | P = 0.80 |) | | | | | |
| 3.1.4 Mixed procedur | | | 0 | | | | | |
| Pompe | 184 | 470 | 556 | 1410 | 16.1% | 0.99 [0.80, 1.22] | <u>+</u> | |
| Subtotal (95% CI) | | 470 | | 1410 | 16.1% | 0.99 [0.80, 1.22] | • | |
| Total events | 184 | | 556 | | | | | |
| Heterogeneity: Not ap | | | | | | | | |
| Test for overall effect: 2 | | P = 0.91 |) | | | | | |
| | | | | | | | | |
| Total (95% CI) | | 977 | | 2907 | 100.0% | 1.06 [0.74, 1.52] | + | |
| Total (95% CI) Total events | 334 | 977 | 1086 | 2907 | 100.0% | 1.06 [0.74, 1.52] | + | |
| Total events Heterogeneity: Tau² = Test for overall effect: 2 | 0.20; Chi Z = 0.32 (| ² = 26.78 P = 0.75 | 6, df = 1) | 1 (P = (|).005); l² = | : 59% | 0.01 0.1 10 TURP non-TURP | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect: . Test for suboroup diffe | 0.20; Chi Z = 0.32 (erences: (| ² = 26.70 P = 0.75 Chi² = 2. | 6, df = 1) 04. df = | 1 (P = (3 (P = |).005); l² = | - 59% 0% | TURP non-TURP | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect: . Test for subgroup diffe 3 | 0.20; Chi Z = 0.32 (erences: (TURF | ² = 26.70 P = 0.75 Chi² = 2. | 6, df = 1) 04. df = non-TU | 1 (P = (3 (P = | 0.005); I² = 0.56). I² = | 59% 0% Odds Ratio | TURP non-TURP Odds Ratio | 1(|
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup diffe Study or Subgroup | 0.20; Chi Z = 0.32 (erences: (TURF | ² = 26.70 P = 0.75 Chi² = 2. | 6, df = 1) 04. df = non-TU | 1 (P = (3 (P = | 0.005); I² = 0.56). I² = | - 59% 0% | TURP non-TURP | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subaroup diffe 3 Study or Subgroup 3.2.1 LRP | 0.20; Chi Z = 0.32 (erences: (TURF Events | ² = 26.76 P = 0.75 Chi ² = 2. D Total E | 6, df = 1) 04. df = non-TU Events | 1 (P = (3 (P = IRP Total | 0.005); ² = 0.56). ² = <u>Weight</u> | 59% 0% Odds Ratio M-H, Random, 95% CI | TURP non-TURP Odds Ratio | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup diffe Study or Subgroup | 0.20; Chi Z = 0.32 (erences: (TURF | ² = 26.70 P = 0.75 Chi² = 2. | 6, df = 1) 04. df = non-TU | 1 (P = (3 (P = | 0.005); I² = 0.56). I² = | 59% 0% Odds Ratio | TURP non-TURP Odds Ratio | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subaroup diffe 3 Study or Subgroup 3.2.1 LRP | 0.20; Chi Z = 0.32 (erences: (TURF Events | ² = 26.76 P = 0.75 Chi ² = 2. D Total E | 6, df = 1) 04. df = non-TU Events | 1 (P = (3 (P = IRP Total | 0.005); ² = 0.56). ² = <u>Weight</u> | 59% 0% Odds Ratio M-H, Random, 95% CI | TURP non-TURP Odds Ratio | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect. Test for suboroup diffe Study or Subgroup 3.2.1 LRP Menard | 0.20; Chi Z = 0.32 (erences: (TURF <u>Events</u> 18 | ² = 26.76 P = 0.75 Chi ² = 2. D Total E 46 | 6, df = 1) 04. df = non-TU <u>Events</u> 342 | 1 (P = (3 (P = IRP <u>Total</u> 594 | 0.005); I ² = 0.56). I ² = <u>Weight</u> 16.1% | 59% 0% Odds Ratio <u>M-H, Random, 95% CI</u> 0.47 (0.26, 0.88) | TURP non-TURP Odds Ratio | 10 |
| Total events Heterogeneity: Tau ² = Test for overall effect . Test for subαroup diffe Study or Subgroup 3.2.1 LRP Menard Ramirez Backhaus | 0.20; Chi Z = 0.32 (erences: (TURF <u>Events</u> 18 9 | ² = 26.76 P = 0.75 Chi ² = 2. D <u>Total E</u> 46 19 | 6, df = 1) 04. df = non-TU Events 342 37 | 1 (P = (3 (P = IRP <u>Total</u> 594 136 | 0.005); I ² = 0.56). I ² = <u>Weight</u> 16.1% 9.8% | 59% 0% Odds Ratio <u>M-H, Random, 95% CI</u> 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for suboroup diffe 3 Study or Subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) | 0.20; Chi Z = 0.32 (erences: (TURF <u>Events</u> 18 9 | ² = 26.76 P = 0.75 Chi ² = 2. <u>Total E</u> 46 19 35 | 6, df = 1) 04. df = non-TU Events 342 37 | 1 (P = (3 (P = IRP Total 594 136 35 | 0.005); I ² = 0.56). I ² = <u>Weight</u> 16.1% 9.8% 8.8% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for subαroup diffe Study or Subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = | 0.20; Chi [*] Z = 0.32 (erences: (TURF <u>Events</u> 18 9 8 35 0.57; Chi [*] | ² = 26.76 P = 0.75 Chi ² = 2. <u>Total I</u> 46 19 35 100 ² = 7.85, | 6, df = 1 0 4. df = non-TU <u>Events</u> 342 37 12 391 df = 2 (| 1 (P = (3 (P = IRP Total 594 136 35 765 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect . Test for suboroup diffe 3 3 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect . | 0.20; Chi [*] Z = 0.32 (erences: (TURF <u>Events</u> 18 9 8 35 0.57; Chi [*] | ² = 26.76 P = 0.75 Chi ² = 2. <u>Total I</u> 46 19 35 100 ² = 7.85, | 6, df = 1 0 4. df = non-TU <u>Events</u> 342 37 12 391 df = 2 (| 1 (P = (3 (P = IRP Total 594 136 35 765 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup diffe <u>Study or Subgroup</u> 3.2.1 LRP Menard Ramirez Backhaus Yang | 0.20; Chi [*] Z = 0.32 (erences: (TURF <u>Events</u> 18 9 8 35 0.57; Chi [*] | ² = 26.76 P = 0.75 Chi ² = 2. <u>Total I</u> 46 19 35 100 ² = 7.85, | 6, df = 1 0 4. df = non-TU <u>Events</u> 342 37 12 391 df = 2 (| 1 (P = (3 (P = IRP Total 594 136 35 765 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect . Test for suboroup diffe 3 3 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect . | 0.20; Chi [*] Z = 0.32 (erences: (TURF <u>Events</u> 18 9 8 35 0.57; Chi [*] | ² = 26.76 P = 0.75 Chi ² = 2. <u>Total I</u> 46 19 35 100 ² = 7.85, | 6, df = 1 0 4. df = non-TU <u>Events</u> 342 37 12 391 df = 2 (| 1 (P = (3 (P = IRP Total 594 136 35 765 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton | 0.20; Chi [*] Z = 0.32 (erences: (TURF <u>Events</u> 18 9 8 35 0.57; Chi [*] Z = 0.36 (| ² = 26.76 P = 0.75 Chi ² = 2. 5 Total E 46 19 35 100 ² = 7.85, P = 0.72 | 6, df = 1 04. df = non-TU 2vents 342 37 12 391 df = 2 (| 1 (P = (3 (P = IRP Total 594 136 35 765 P = 0.0 | 0.005); ² = 0.56). ² = 16.1% 9.8% 8.8% 34.8% 2); ² = 75 | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor | 0.20; Chi [*] Z = 0.32 (erences: (TURF Events 18 9 8 35 0.57; Chi [*] Z = 0.36 (28 | ² = 26.76 P = 0.75 Chi ² = 2. Total E 46 19 35 100 ² = 7.85, P = 0.72 | 3, df = 1 04. df = non-TU 242 37 12 391 df = 2 () 55 | 1 (P = 0 3 (P = IRP Total 594 136 35 765 P = 0.0 | 0.005); ² = 0.56). ² = 16.1% 9.8% 8.8% 34.8% 2); ² = 75 14.8% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect . Test for suboroup diffe Study or Subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect . 3.2.2 RARP Hampton Zugor Subtotal (95% CI) | 0.20; Chi Z = 0.32 (erences: (TURF Events 18 9 8 35 0.57; Chi Z = 0.36 (28 30 | ² = 26.76 P = 0.75 Chi ² = 2. <u>Total I</u> 46 19 35 100 ² = 7.85, P = 0.72 51 80 | 3, df = 1 04. df = non-TU 242 37 12 391 df = 2 () 55 | 1 (P = 0 3 (P = IRP Total 594 136 35 765 P = 0.0 102 80 | 0.005); ᢪ = 0.56). ᢪ = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% 2); ₽ = 75 14.8% 15.1% | 59% Odds Ratio M-H, Random, 95% Cl 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect Test for suboroup diffe Study or Subgroup Study or Subgroup Menard Ramirez Backhaus Yang Subtotal (95% Cl) Total events Heterogeneity: Tau ² = Test for overall effect 3.2.2 RARP | 0.20; Chi Z = 0.32 (erences: 0 TURF Events 18 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi | ² = 26.76 P = 0.75 Chi ² = 2. | 3, df = 1 04. df = non-TU <u>avents</u> 342 37 12 391 df = 2 () 55 23 78 df = 1 (| 1 (P = (3 (P = IRP Total 594 136 35 765 P = 0.0 102 80 182 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup Subdy or Subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Total events Heterogeneity: CI) Total events Heterogeneity: Tau ² = | 0.20; Chi Z = 0.32 (erences: 0 TURF Events 18 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi | ² = 26.76 P = 0.75 Chi ² = 2. | 3, df = 1 04. df = non-TU <u>avents</u> 342 37 12 391 df = 2 () 55 23 78 df = 1 (| 1 (P = (3 (P = IRP Total 594 136 35 765 P = 0.0 102 80 182 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% Cl) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% Cl) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.3 OP | 0.20; Chi Z = 0.32 (erences: 0 TURF Events 18 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi Z = 0.92 (| = 26.7(P = 0.75 Chi ² = 2. • • • • • • • • • • • • • | 5, df = 1) 04. df = non-TU cvents 342 37 12 391 df = 2 () 55 23 78 df = 1 () | 1 (P = (3 (P = Total 594 136 35 765 P = 0.0 102 80 182 P = 0.4 | 0.005); ² = 0.56). ² = Weight 16.1% 9.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] | TURP non-TURP Odds Ratio | 11 |
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| Total events Heterogeneily: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneily: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% CI) Total events Heterogeneily: Tau ² = Test for overall effect : 3.2.3 OP Fragkoulis | 0.20; Chi Z = 0.32 (erences: 0 108 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi Z = 0.36 (16 16 plicable Z = 0.95 (e of OP a | = 26.7(= 26.7(= 2.7) Total E 46 9 19 35 100 = 7.85, 100 = 7.85, 100 = 0.72 51 80 131 = 0.55, 35 35 P = 0.36 P = 0.34 P = 0.34 | 5), df = 1) 04. df = non-TU cvents 342 37 12 391 df = 2 () 55 23 78 df = 1 () 20 20) | 1 (P = (3 (P = Total 594 136 35 765 P = 0.0 182 P = 0.4 35 35 | 0.005); ² = 0.56). ² = Weight 16.1% 9.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] | TURP non-TURP Odds Ratio | 11 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for suboroup diffe 3 Study or Subgroup Menard Ramirez Backhaus Yang Subtotal (95% Cl) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% Cl) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.3 OP Fragkoulis Subtotal (95% Cl) Total events Heterogeneity: Not ap Total events Heterogeneity: Notal (b Heterogeneity) | 0.20; Chi Z = 0.32 (erences: 0 10RF Events 18 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi Z = 0.92 (16 16 plicable Z = 0.95 (e of OP a 113 | ² = 26.7? ² = 26.7? ² = 7.85 ³ = 7.85 ³ = 7.85 ³ = 7.85 ³ = 7.85 ³ = 0.72 ⁵ 1 ⁸ 0 ¹ 31 ² = 0.55 ³ 5 ³ 5 ³ 5 ³ 5 ³ 5 ³ 5 ³ 7 ³ 6 ³ 7 ³ | 5), df = 1) 04. df = non-TU cvents 342 37 12 391 df = 2 () 55 23 78 df = 1 () 20 20) 20 20 | 1 (P = (3 (P = Total 594 136 5765 765 P = 0.0 102 80 182 P = 0.4 35 35 1410 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% 10.2% 25.1% | 59% 0% 0dds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] 0.63 [0.25, 1.62] 1.22 [0.95, 1.56] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : 3.2.4 Mixed procedur Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : 3.2.4 Mixed procedur Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap) Total events | 0.20; Chi Z = 0.32 (erences: 0 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, | <pre>2 = 26.7(</pre> | 5), df = 1) 04. df = non-TU vents 342 37 12 391 df = 2 () 55 23 78 df = 1 () 20 20) 221 | 1 (P = (3 (P = Total 594 136 5765 765 P = 0.0 102 80 182 P = 0.4 35 35 1410 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% 10.2% 25.1% | 59% 0% 0dds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] 0.63 [0.25, 1.62] 1.22 [0.95, 1.56] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect : 3.2.4 Mixed procedure Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect : 3.2.4 Mixed procedure Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect : | 0.20; Chi Z = 0.32 (erences: 0 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, | P = 26.7€ P = 26.7€ Ch ^P = 2. Total E 19 35 100 P = 0.72 51 80 131 P = 0.72 51 80 35 35 7 80 131 P = 0.72 0.56, 35 35 P = 0.34 470 470 P = 0.12 | 5), df = 1) 04. df = non-TU vents 342 37 12 391 df = 2 () 55 23 78 df = 1 () 20 20) 221 | 1 (P = (3 (P = Total 136 35 765 P = 0.0 102 80 182 P = 0.4 35 35 1410 1410 | 0.005); ² = 0.56). ² = 16.1% 9.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% 10.2% 25.1% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] 0.63 [0.25, 1.62] 1.22 [0.95, 1.56] 1.22 [0.95, 1.56] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : 3.2.4 Mixed procedur Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : 3.2.4 Mixed procedur Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : | 0.20; Chi Z = 0.32 (erences: 0 18 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi Z = 0.92 (16 16 plicable Z = 0.95 (e of OP a 113 113 plicable Z = 1.55 (| <pre>2 = 26.7(</pre> | 5), df = 1) 04. df = non-TU svents 342 37 12 391 df = 2 () 55 23 78 df = 1 (20 20) 22 291) | 1 (P = (3 (P = Total 136 35 765 P = 0.0 102 80 182 P = 0.4 35 35 1410 1410 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 8.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% 10.2% 25.1% | 59% 0% 0dds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] 0.63 [0.25, 1.62] 1.22 [0.95, 1.56] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneiky: Tau ² = Test for overall effect: : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneiky: Tau ² = Test for overall effect: : 3.2.2 RARP Hampton Zugor Subtotal (95% CI) Total events Heterogeneiky: Tau ² = Test for overall effect: : 3.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneiky: Tau ² = Test for overall effect: : 3.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneiky: Not app Test for overall effect: : 3.2.4 Mixed procedure Pompe | 0.20; Chi Z = 0.32 (erences: 0 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, | P = 26.7€ P = 26.7€ Ch ^P = 2. Total E 19 35 100 P = 0.72 51 80 131 P = 0.72 51 80 35 35 7 80 131 P = 0.72 0.56, 35 35 P = 0.34 470 470 P = 0.12 | 5), df = 1) 04. df = non-TU vents 342 37 12 391 df = 2 () 55 23 78 df = 1 () 20 20) 221 | 1 (P = (3 (P = Total 136 35 765 P = 0.0 102 80 182 P = 0.4 35 35 1410 1410 | 0.005); ² = 0.56). ² = 16.1% 9.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% 10.2% 25.1% | 59% Odds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] 0.63 [0.25, 1.62] 1.22 [0.95, 1.56] 1.22 [0.95, 1.56] | TURP non-TURP Odds Ratio | 1 |
| Total events Heterogeneity: Tau ² = Test for overall effect : Test for subgroup 3.2.1 LRP Menard Ramirez Backhaus Yang Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.2 RARP Hampton Zugor Subtotal (95% CI) Total events Heterogeneity: Tau ² = Test for overall effect : 3.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : 3.2.4 Mixed procedur Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : 3.2.4 Mixed procedur Pompe Subtotal (95% CI) Total events Heterogeneity: Not ap) Test for overall effect : | 0.20; Chi Z = 0.32 (erences: 0 18 9 8 35 0.57; Chi Z = 0.36 (28 30 58 0.00; Chi Z = 0.92 (16 16 plicable Z = 0.95 (e of OP a 113 113 plicable Z = 1.55 (222 | ² = 26.7(² = 2.6.7(² = 7.85, ³ = 7.85, ³ = 7.85, ³ = 7.85, ³ = 0.55, ³ = 0.55, ⁴ = 0.55, ⁵ = 0.55, ⁵ = 0.55, ⁵ = 0.55, ⁵ = 0.55, ⁵ | 5), df = 1) 04. df = non-TU vents 342 37 12 391 df = 2) 55 23 78 df = 1 () 20 20) 780 780 | 1 (P = (3 (P = Total 594 136 5765 765 765 P = 0.0 102 80 182 P = 0.4 35 35 1410 1410 1410 | 0.005); ² = 0.56). ² = <u>Weight</u> 16.1% 9.8% 34.8% 2); ² = 75 14.8% 15.1% 29.9% 6); ² = 0% 10.2% 10.2% 25.1% 25.1% 25.1% 100.0% | 59% 0% 0dds Ratio M-H, Random, 95% CI 0.47 [0.26, 0.88] 2.41 [0.91, 6.39] 0.57 [0.20, 1.63] 0.83 [0.31, 2.26] % 1.04 [0.53, 2.04] 1.49 [0.77, 2.88] 1.25 [0.78, 2.00] 0.63 [0.25, 1.62] 0.63 [0.25, 1.62] 1.22 [0.95, 1.56] 1.22 [0.95, 1.56] 1.22 [0.95, 1.56] 0.98 [0.67, 1.44] | TURP non-TURP Odds Ratio | 11 |

Figure 6 Forest plot for (A) pathologic stage \geq T3; (B) pathologic Gleason score =7.

| Α | TUR | | non-TU | | | Odds Ratio | Odds Ratio |
|--|--|--|--|--|--|---|----------------------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% CI | M-H, Fixed, 95% Cl |
| .3.1 LRP | | | | | | | |
| /lenard | 4 | 46 | 84 | 594 | 12.7% | 0.58 [0.20, 1.65] | |
| Ramirez Backhaus | 1 | 19 | 12 | 136 | 3.2% | 0.57 [0.07, 4.68] | |
| 'ang | 13 | 35 | 9 | 35 | 6.5% | 1.71 [0.61, 4.74] | |
| Subtotal (95% CI) | | 100 | | 765 | 22.4% | 0.91 [0.47, 1.74] | |
| otal events | 18 | | 105 | | | | |
| leterogeneity: Chi² = | | | | = 15% | | | |
| est for overall effect: | Z = 0.30 (| P = 0.77 | 7) | | | | |
| | | | | | | | |
| .3.2 RARP | | | | | | | |
| lampton | 5 | 51 | 16 | 102 | 11.1% | 0.58 [0.20, 1.70] | |
| lung | 0 | 16 | 31 | 184 | 5.9% | 0.15 [0.01, 2.53] | • • • • • |
| lugor | 8 | 80 | 1 | 80 | 1.0% | 8.78 [1.07, 71.91] | |
| Subtotal (95% CI) | | 147 | | 366 | 18.1% | 0.91 [0.44, 1.87] | - |
| otal events | 13 | | 48 | | | | |
| leterogeneity: Chi ² = | 6.70, df= | 2 (P = 0 |).04); I ² = | = 70% | | | |
| est for overall effect: | Z = 0.25 (| P = 0.80 |)) | | | | |
| | | | | | | | |
| .3.3 OP | | | | | | | |
| ragkoulis | 2 | 35 | 5 | 35 | 5.4% | 0.36 [0.07, 2.02] | |
| Subtotal (95% CI) | | 35 | | 35 | 5.4% | 0.36 [0.07, 2.02] | |
| otal events | 2 | | 5 | | | | |
| leterogeneity: Not ap | | | • | | | | |
| est for overall effect: | | P = 0.24 | 5) | | | | |
| estion overall ellect. | 2-1.10(| 1 - 0.2. | " | | | | |
| .3.4 Mixed procedur | re of OP a | nd RAP | Р | | | | |
| ompe | 38 | 470 | | 1410 | 54.1% | 1.13 [0.77, 1.66] | - - - |
| Subtotal (95% Cl) | 30 | 470 | 102 | 1410 | 54.1% 54.1% | 1.13 [0.77, 1.66] | |
| | 20 | 470 | 100 | 1410 | J-4. 170 | 1.15 [0.77, 1.00] | T |
| otal events | 38 Indiachla | | 102 | | | | |
| leterogeneity: Not ap | | n - o c | | | | | |
| est for overall effect: | ∠=U.61 (| r = 0.54 | i) | | | | |
| | | 750 | | 0.575 | 100 000 | 4 00 10 71 17 | ▲ |
| otal (95% CI) | | 752 | | 2576 | 100.0% | 1.00 [0.74, 1.34] | T |
| otal events | 71 | | 260 | | | | |
| leterogeneity: Chi² = | 10.89, df | = 7 (P = | 0.14); l ² | = 36% | | | 0.01 0.1 1 10 100 |
| est for overall effect: | Z = 0.02 (| P = 0.99 | 3) | | | | TURP non-TURP |
| est for subaroup diff | ferences: | Chi² = 1 | .86. df= | 3 (P = | 0.60). I² = | 0% | |
| | | | | | | | |
| 3 | TUD | | | | | | |
| , | TUR | 2 | non-TU | IRP | | Odds Ratio | Odds Ratio |
| | | | | | Weight | Odds Ratio M-H, Fixed, 95% Cl | Odds Ratio M-H, Fixed, 95% Cl |
| | | | | | Weight | | |
| study or Subgroup | | | | | Weight 5.5% | M-H, Fixed, 95% Cl | |
| Study or Subgroup | Events | Total | Events | Total | | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] | |
| study or Subgroup 3.4.1 LRP laffe | Events 26 | <u>Total</u> 119 | Events 15 | <u>Total</u> 119 | 5.5% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] | |
| Study or Subgroup 3.4.1 LRP laffe Menard Pastore | Events 26 12 | Total 119 46 | <u>Events</u> 15 168 | Total 119 594 | 5.5% 8.4% | M-H, Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] | |
| Study or Subgroup 1.4.1 LRP affe Menard Pastore Ramirez Backhaus | Events 26 12 6 7 | Total 119 46 25 19 | Events 15 168 3 35 | Total 119 594 25 136 | 5.5% 8.4% 1.1% 2.6% | M-H, Fixed, 95% Cl 1.94 (0.97, 3.88) 0.89 (0.45, 1.77) 2.32 (0.51, 10.54) 1.68 (0.61, 4.61) | |
| t <mark>udy or Subgroup 1.4.1 LRP affe Aenard Pastore Ramirez Backhaus Teber</mark> | Events 26 12 6 7 8 | Total 119 46 25 19 55 | Events 15 168 3 35 9 | Total 119 594 25 136 55 | 5.5% 8.4% 1.1% 2.6% 3.6% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] | |
| <mark>Study or Subgroup 4.4.1 LRP laffe lenard Pastore Ramirez Backhaus 'eber 'ang</mark> | Events 26 12 6 7 | Total 119 46 25 19 55 35 | Events 15 168 3 35 | Total 119 594 25 136 55 35 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] | |
| <mark>Study or Subgroup 4.4.1 LRP laffe Aenard Pastore Ramirez Backhaus eber Yang Subtotal (95% CI)</mark> | Events 26 12 6 7 8 12 | Total 119 46 25 19 55 | Events 15 168 3 35 9 7 | Total 119 594 25 136 55 | 5.5% 8.4% 1.1% 2.6% 3.6% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] | |
| tudy or Subgroup 4.4.1 LRP affe Alenard Vastore Ramirez Backhaus reber rang Subtotal (95% CI) Total events | Events 26 12 6 7 8 12 71 | Total 119 46 25 19 55 35 299 | Events 15 168 3 35 9 7 237 | Total 119 594 25 136 55 35 964 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] | |
| tudy or Subgroup 4.4.1 LRP laffe denard Pastore Past | Events 26 12 6 7 8 12 71 4.38, df= | Total 119 46 25 19 55 35 299 5 (P = 0 | Events 15 168 3 35 9 7 237 0.50); *= | Total 119 594 25 136 55 35 964 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] | |
| tudy or Subgroup 4.4.1 LRP affe Alenard Vastore Ramirez Backhaus reber rang Subtotal (95% CI) Total events | Events 26 12 6 7 8 12 71 4.38, df= | Total 119 46 25 19 55 35 299 5 (P = 0 | Events 15 168 3 35 9 7 237 0.50); *= | Total 119 594 25 136 55 35 964 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] | |
| Audy or Subgroup 4.4.1 LRP laffe denard Pastore Ramirez Backhaus feber fang Subtotal (95% CI) fotal events deterogeneity: Chi ² = fest for overall effect: | Events 26 12 6 7 8 12 71 4.38, df= | Total 119 46 25 19 55 35 299 5 (P = 0 | Events 15 168 3 35 9 7 237 0.50); *= | Total 119 594 25 136 55 35 964 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% | M-H, Fixed, 95% Cl 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] | |
| Audy or Subgroup t.4.1 LRP laffe denard 'astore 'aamirez Backhaus 'eber 'ang 'ubtotal (95% CI) 'otal events teterogeneity: Chi² = 'est for overall effect: t.4.2 RARP | 26 12 6 7 8 12 71 4.38, df= Z=1.84 (| Total 119 46 25 19 55 299 5 (P = 0 P = 0.03 | Events 15 168 3 35 9 7 237 0.50); ² = 7) | Total 119 594 25 136 55 35 964 = 0% | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% | M-H, Fixed, 95% CI 1.94 (0.97, 3.88) 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] | |
| Audy or Subgroup 4.4.1 LRP laffe denard Pastore Past | 26 12 6 7 8 12 7 1 4.38, df= Z = 1.84 (| Total 119 46 25 19 55 299 5 (P = 0 P = 0.03 26 | Events 15 168 3 35 9 7 237 7) 237 1.50); I [≠] = 7) 17 | Total 119 594 25 136 55 964 = 0% 132 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% | M.H, Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] | |
| Andro of Subgroup 4.4.1 LRP affe denard Pastore Pastore Ramirez Backhaus Pastore Subtotal (95% CI) fotal events Heterogeneity: Chi ^a = est for overall effect: 1.4.2 RARP Supta Hampton | Events 26 12 6 7 8 12 7 8 12 71 4.38, df= Z = 1.84 (5 18 | Total 119 46 25 19 55 299 5 (P = 0 P = 0.03 26 51 | Events 15 168 3 35 9 7 237 1.50); ² = 7) 17 18 | Total 119 594 25 136 55 35 964 = 0% 132 102 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% | M-H, Fixed, 95% CI 1.94 (0.97, 3.88) 0.89 (0.45, 1.77) 2.32 (0.51, 10.54) 1.68 (0.61, 4.61) 0.87 (0.31, 2.45) 2.09 (0.71, 6.16) 1.40 (0.98, 2.00) 1.61 (0.54, 4.84) 2.55 (1.18, 5.48) | |
| Audy or Subgroup tudy or Subgroup t4.1 LRP laffe denard 'astore Ramirez Backhaus 'eber 'ang 05% CI) 'otal events Heterogeneity: Chi ^a = 'est for overall effect: t.4.2 RARP Supta tampton | Events 26 12 6 7 8 12 71 4.38, df= Z = 1.84 (5 18 7 | Total 119 46 25 19 55 299 5 (P = (P = 0.03) 26 51 16 | Events 15 168 3 35 9 7 237 1.50); ² = 7) 17 18 74 | Total 119 594 25 136 55 35 964 = 0% 132 102 184 | 5.5% 8.4% 1.1% 2.6% 2.2% 2.3.4% 2.1% 3.7% 3.1% | M.H. Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.41, 3.24] | |
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| Audy or Subgroup tudy or Subgroup t4.1 LRP laffe denard Vastore Vastor Vastor <t< td=""><td>Events 266 12 6 7 8 12 71 4.38, df= 2 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7</td><td>$\begin{array}{c} \textbf{Total} \\ 119 \\ 46 \\ 25 \\ 19 \\ 55 \\ \textbf{299} \\ 5 (P=0,0) \\ 6 \\ 16 \\ 9 \\ 80 \\ \textbf{222} \\ 4 (P=0,0) \\ \textbf{222} \\ 4 (P=0,0) \\ \textbf{235} \\ 62 \\ 33 \\ \textbf{33} \end{array}$</td><td>Events 15 168 3 35 9 7 7 237 7 237 7 17 18 74 554 4 667 7 18 17 55) 6 6</td><td>Total 119 594 25 136 55 964 20% 132 102 184 2644 2644 2644 3142 20%</td><td>5.5% 8.4% 1.1% 2.6% 2.2% 23.4% 2.1% 3.7% 3.1% 6.6% 1.7% 17.3% 2.3% 3.9%</td><td>M.H. Fixed, 95% CI 1.94 (0.97, 3.88) 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.42, 5.66] 1.74 [1.18, 2.56] 1.21 [0.36, 4.04] 1.62 [0.61, 4.29] 1.54 [0.66, 3.59]</td><td></td></t<> | Events 266 12 6 7 8 12 71 4.38, df= 2 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7 | $\begin{array}{c} \textbf{Total} \\ 119 \\ 46 \\ 25 \\ 19 \\ 55 \\ \textbf{299} \\ 5 (P=0,0) \\ 6 \\ 16 \\ 9 \\ 80 \\ \textbf{222} \\ 4 (P=0,0) \\ \textbf{222} \\ 4 (P=0,0) \\ \textbf{235} \\ 62 \\ 33 \\ \textbf{33} \end{array}$ | Events 15 168 3 35 9 7 7 237 7 237 7 17 18 74 554 4 667 7 18 17 55) 6 6 | Total 119 594 25 136 55 964 20% 132 102 184 2644 2644 2644 3142 20% | 5.5% 8.4% 1.1% 2.6% 2.2% 23.4% 2.1% 3.7% 3.1% 6.6% 1.7% 17.3% 2.3% 3.9% | M.H. Fixed, 95% CI 1.94 (0.97, 3.88) 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.42, 5.66] 1.74 [1.18, 2.56] 1.21 [0.36, 4.04] 1.62 [0.61, 4.29] 1.54 [0.66, 3.59] | |
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| Audy or Subgroup tudy or Subgroup t4.1 LRP laffe denard 'astore tamirez Backhaus 'eber 'ang laffe 'ang laffe 'ang laffe 'ang laffe 'athotal (95% CI) 'otal events Heterogeneity: Chi² = 'est for overall effect: tubtotal (95% CI) 'otal events Heterogeneity: Chi² = 'est for overall effect: t.4.3 OP 'aulson 'au | Events 266 12 6 7 8 12 71 4.38, df= Z = 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7 12 1.62, df= Z = 1.37 (respectively) 7 12 1.62, df= 2 = 1.37 (respectively) 7 12 13 16 16 12 12 12 12 12 12 12 12 12 12 | Total 119 46 25 35 299 5 (P = 0 P = 0.03 5 (P = 0 26 51 16 49 80 222 4 (P = 0 P = 0.01 35 62 33 130 2 (P = 0, 1) 130 2 (P = 0, 1) 130 130 130 130 130 130 130 130 | Events 15 168 3 3 5 9 7 237 7 237 7 150); P ² 17 18 74 554 4 667 18 19 9 7 7 150); P ² 6 8 26 8 26 9 9 7 7 150 150 150 150 150 150 150 150 | Total 119 594 255 136 55 35 964 132 102 184 2644 80 3142 0% 35 62 106 203 203 55 62 106 203 55 62 0% | 5.5% 8.4% 1.1% 2.6% 2.2% 23.4% 2.1% 3.7% 3.1% 6.6% 1.7% 17.3% 2.3% 3.1% 3.9% 9.2% | M.H. Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.42, 5.68] 1.54 [0.42, 5.68] 1.74 [1.18, 2.56] 1.21 [0.36, 4.04] 1.62 [0.61, 4.29] 1.54 [0.66, 3.59] 1.48 [0.84, 2.61] | |
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| Audy or Subgroup tudy or Subgroup 4.1 LRP affe lenard 'astore camirez Backhaus 'eber 'ang (95% CI) total events ieterogeneity: Chi ^a = 'est for overall effect: 4.2 RARP bupta tampton tung 'ubtotal (95% CI) 'otal events leterogeneity: Chi ^a = 'est for overall effect: .4.3 OP ragkoulis 'alisaar 'aulson 'ubtotal (95% CI) 'otal events leterogeneity: Chi ^a = 'est for overall effect: .4.4 Mixed procedur 'otal events leterogeneity: Chi ^a = 'est for overall effect: .4.4 Mixed procedur 'otal events leterogeneity: Not ap 'est for overall effect: | Events 266 12 6 7 8 12 71 4.38, df= Z = 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7 12 11 0.015, df= Z = 1.37 (re of OP a 92 92 92 | $\begin{array}{c} \textbf{Total} \\ 119 \\ 46 \\ 25 \\ 19 \\ 55 \\ 36 \\ 299 \\ 5(P=0,0) \\ 61 \\ 229 \\ 61 \\ 220 \\ 4(P=0,0) \\ 222 \\ 4(P=0,0) \\ 35 \\ 62 \\ 233 \\ 130 \\ 2(P=0,1) \\ 130 \\ 130 \\ 2(P=0,1) \\ 130 \\ 47$ | Events 15 168 3 3 5 9 7 237 7 150); P= 7 17 18 74 554 4 6 8 26 8 26 9 9 7 7 9 7 17 18 74 55 16 8 26 8 26 8 26 8 26 26 237 7 15 15 15 15 15 15 15 15 15 15 | Total 119 594 255 136 55 35 964 132 102 184 2644 80 3142 = 0% 355 62 106 203 = 0% = 0% 1410 1410 1410 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% 2.1% 6.6% 1.7% 3.1% 3.1% 3.1% 3.9% 9.2% | M-H, Fixed, 95% CI 1.94 (0.97, 3.88) 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.42, 5.68] 1.54 [0.42, 5.68] 1.54 [0.42, 5.68] 1.54 [0.42, 5.68] 1.54 [0.64, 3.59] 1.54 [0.64, 3.59] 1.54 [0.64, 2.61] 1.06 [0.81, 1.38] | |
| Audy or Subgroup tudy or Subgroup t4.1 LRP laffe denard 'astore Ramirez Backhaus 'eber 'ang Subtotal (95% CI) 'otal events deterogeneity: Chi² = 'est for overall effect: t.4.2 RARP Supta dampton tung 'suftampton tung 'suftampton tung 'suftampton tung 'suftampton tung 'suftampton tung 'suftampton tung 'ast for overall effect: 'alisaar 'aulson Subtotal (95% CI) 'otal events telerogeneity: Chi² = 'est for overall effect: '4.4 Mixed procedur Pompe 'subtotal (95% CI) 'otal events telerogeneity: Not ap 'est for overall effect: < | Events 266 12 6 7 8 12 71 4.38, df= Z = 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7 12 11 0.015, df= Z = 1.37 (re of OP a 92 92 92 | $\begin{array}{c} \textbf{Total} \\ 119 \\ 46 \\ 25 \\ 35 \\ 299 \\ 5(P = 0.03) \\ 5(P = 0.03) \\ 6(P = 0.03) \\ 226 \\ 51 \\ 16 \\ 80 \\ 222 \\ 4(P = 0.03) \\ 222 \\ 4(P = 0.03) \\ 130 \\ 2(P = 0.03) \\ 130 \\ 100 \\ 10$ | Events 15 168 3 3 5 9 7 237 7 150); P= 7 17 18 74 554 4 6 8 26 8 26 9 9 7 7 9 7 17 18 74 55 16 8 26 8 26 8 26 8 26 26 237 7 15 15 15 15 15 15 15 15 15 15 | Total 119 594 255 136 55 35 964 132 102 184 2644 80 3142 = 0% 355 62 106 203 = 0% = 0% 1410 1410 1410 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% 2.1% 3.1% 6.6% 1.7% 17.3% 2.3% 3.1% 3.9% 9.2% 50.0% | M-H, Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.84, 2.61] 1.06 [0.81, 1.38] 1.06 [0.81, 1.38] | |
| Audy or Subgroup 4.1 LRP affe lenard 'astore camirez Backhaus 'eber 'ang autore 'alisaar 'aulston 'alisaar 'auson 'alisaar 'auson 'alisaar 'auson | Events 266 12 6 7 8 12 71 4.38, df= Z = 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7 12 11 30 0.15, df= Z = 1.37 (ref oP a 92 92 pplicable Z = 0.44 (244 | $\begin{array}{c} \textbf{Total} \\ 119 \\ 46 \\ 25 \\ 19 \\ 55 \\ 35 \\ 299 \\ 5 (P = 0.0) \\ 6 \\ 16 \\ 49 \\ 80 \\ 222 \\ 4 \\ (P = 0.0) \\ 35 \\ 62 \\ 33 \\ 130 \\ 2 \\ (P = 0.0) \\ 35 \\ 62 \\ 31 \\ 130 \\ 2 \\ (P = 0.0) \\ 130 \\ 2 \\ (P = 0.0) \\ 130 \\ 130 \\ 2 \\ (P = 0.0) \\ 130 \\ $ | Events 15 168 3 3 5 9 7 237 7 237 7 237 7 17 18 74 554 4 667 8 26 8 26 40 9 9 7 237 7 247 247 254 4 6 8 26 8 26 26 26 3 7 7 263 263 3 3) 12 263 263 3 3) 12 263 263 263 263 263 263 263 26 | Total 119 594 25 136 55 35 964 132 102 184 20% 3142 20% 3142 20% 3142 203 203 203 5719 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% 2.1% 3.7% 1.7% 17.3% 2.3% 3.1% 3.9% 9.2% 50.0% 50.0% | M-H, Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.84, 2.61] 1.06 [0.81, 1.38] 1.06 [0.81, 1.38] | M.H. Fixed. 95% Cl |
| tudy or Subgroup 4.1 LRP affe lenard satore samirez Backhaus eber ang ubtotal (95% CI) otal events leterogeneity: Chi² = est for overall effect: 4.2 RARP upta uampton lung u ugor ubtotal (95% CI) otal events leterogeneity: Chi² = est for overall effect: 4.3 OP ragkoulis alisaar aulson ubtotal (95% CI) otal events leterogeneity: Chi² = est for overall effect: 4.4 Mixed procedur ompe ubtotal (95% CI) otal events leterogeneity: Not ap est for overall effect: 0.4 events leterogeneity: Not ap est for overall effect: 0.4 (95% CI) | Events 26 12 6 7 8 12 71 4.38, df= Z = 1.84 (5 18 7 15 6 51 1.62, df= Z = 2.82 (7 12 11 30 0.15, df= Z = 1.37 (re of OP a 92 92 92 92 92 92 92 92 92 92 | $\begin{array}{c} \textbf{Total} \\ 119 \\ 46 \\ 25 \\ 35 \\ 299 \\ 5(P = 0.03 \\ 222 \\ 4(P = 0.03 \\ 233 \\ 130 \\ 2(P = 0.03 \\ 130 \\ $ | Events 15 168 3 3 5 9 7 237 7 237 7 150); F= 17 18 74 554 4 667 1.81); F= 6 8 266 40 0.933; F= 263 5) 1207 263 5) 1207 263 5) 1207 120 | Total 119 594 25 136 55 35 964 132 102 184 20% 3142 20% 3142 20% 3142 203 203 203 5719 | 5.5% 8.4% 1.1% 2.6% 3.6% 2.2% 23.4% 2.1% 3.7% 1.7% 17.3% 2.3% 3.1% 3.9% 9.2% 50.0% 50.0% | M-H, Fixed, 95% CI 1.94 [0.97, 3.88] 0.89 [0.45, 1.77] 2.32 [0.51, 10.54] 1.68 [0.61, 4.61] 0.87 [0.31, 2.45] 2.09 [0.71, 6.16] 1.40 [0.98, 2.00] 1.61 [0.54, 4.84] 2.55 [1.18, 5.48] 1.16 [0.42, 5.68] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.66, 3.59] 1.54 [0.84, 2.61] 1.06 [0.81, 1.38] 1.06 [0.81, 1.38] | |

Figure 7 Forest plot for (A) pathologic Gleason score >7; (B) positive surgical margin rates.

Functional outcomes

Pooled data from seven studies assessed the complete continence rates at 3 months for 2,625 patients, which showed significantly lower continence rates in the TURP group (OR =0.67; 95% CI, 0.56 to 0.81; P<0.001). A fixedeffects model was applied (I²=0%; P=0.84, Figure 8A). Pooled data from five studies assessed the complete continence rates at 6 months for 603 patients, which indicated significantly lower rates in the TURP group (OR =0.52; 95% CI, 0.31 to 0.88; P=0.01). A fixed-effects model was applied (I²=0%; P=0.95, Figure 8B). Eight studies, including 3283 patients, evaluated the complete continence rates at 12 months and the pooled data showed significantly lower continence rates in the TURP group (OR =0.59; 95% CI, 0.46 to 0.74; P<0.001). A fixed-effects model was applied (I²=0%; P=0.93, Figure 9A). Seven studies, including 2,371 patients, evaluated the potency rates at 12 months and the pooled data showed significantly lower rates in the TURP group (OR =0.62; 95% CI, 0.51 to 0.77; P<0.001). A fixed-effects model was applied ($I^2=0\%$; P=0.95, *Figure 9B*).

Subgroup analyses

TURP group as compared with the non-TURP group in LRP

There were no changes in this subgroup as compared with the original analysis, except for no significant differences being found in the positive surgical margin rates (OR =1.40; 95% CI, 0.98 to 2.00; P=0.07, *Figure 7B*), continence rates (OR =0.61; 95% CI, 0.33 to 1.13; P=0.12), and erectile function (OR =0.65; 95% CI, 0.32 to 1.35; P=0.25) at 12 months (*Figure 9*). Only one study reported on continence rates at 6 months, and a subgroup analysis could not be conducted.

TURP group as compared with the non-TURP group in RARP

When compared with the original analysis, no significant differences in preoperative PSA levels (WMD: 4.41; 95% CI, -6.01 to 14.83; P=0.41, *Figure 2C*), operative times (WMD: 20.06 min; 95% CI, -23.96 to 64.08 min; P=0.37, *Figure 4A*), EBL (WMD: -26.28 mL; 95% CI, -96.99 to 44.43 mL; P=0.47, *Figure 4B*), duration of catheter (WMD: 0.50 days; 95% CI, -0.82 to 1.82; P=0.46, *Figure 5C*), complete continence rates at 3 months (OR =0.56; 95% CI, 0.31 to 1.01; P=0.06, *Figure 8A*), and complete continence rates at 12 months (OR =0.53; 95% CI, 0.24 to 1.19; P=0.12, *Figure 9A*) were found. Only one study reported on

prostate volumes, biopsy Gleason scores, and hospital stay, and subgroup analyses could not be conducted.

TURP group as compared with the non-TURP group in OP

Compared with the original analysis, no significant differences in prostate volumes (WMD: -5.19 mL; 95% CI, -16.95 to 6.57 mL; P=0.39, Figure 2B), preoperative PSA levels (WMD: -1.77; 95% CI, -5.64 to 2.10; P=0.37, Figure 2C), operative times (WMD: 11.73 min; 95% CI, -6.78 to 30.24 min; P=0.21, Figure 4A), EBL (WMD: 46.59 mL; 95% CI, -3.37 to 96.56; P=0.07, Figure 4B), positive surgical margin rates (OR =1.48; 95% CI, 0.84 to 2.61; P=0.17, Figure 7B), complete continence rates at 12 months (OR =0.91; 95% CI, 0.40 to 2.09; P=0.83, Figure 9A), and potency rates at 12 months (OR =0.74; 95% CI, 0.31 to 1.79; P=0.50) were found between the two groups (Figure 9B). Only one study reported on biopsy Gleason scores, clinical stage \geq T3, blood transfusion rates, complication rates, length of hospital stay, duration of catheter use, and continence rates at 3 and 6 months, and subgroup analyses could not be conducted.

Quality assessment and publication bias

The scores for the included studies are summarized in *Table 1*. If the study received a score \geq 7, it was considered to be of high quality. Ten studies were evaluated as high quality. We used a funnel plot to assess the risk of publication bias. There was some asymmetry found (*Figures S1-S4*), indicating a publication bias.

Discussion

To the best of our knowledge, this systematic review and metaanalysis investigated the outcomes of a RP with or without a previous TURP for the first time. Pooled data showed that RP after a previous TURP led to worse outcomes, including perioperative, functional, and oncological outcomes. However, subgroup analyses indicated that open RP after a previous TURP could lead to better outcomes.

For the treatment management of patients with low or intermediate risk localized prostate carcinoma, a RP is believed to be a primary option (28). Whereas, for the management of BPH, a TURP is normally regarded as gold standard surgical treatment (6,29). As both BPH and prostate carcinoma share age as a risk factor, there is a 4% incidence of prostate carcinoma occurring following a

| A Study of Subgroup | Experim Events | | Cont | | Moight | Odds Ratio M-H, Fixed, 95% Cl | Odds Ratio M-H, Fixed, 95% Cl |
|---|---|--|---|--|---|---|---------------------------------------|
| Study or Subgroup 4.1.1 LRP | Events | TULA | events | TUCAL | weight | m-n, rixeu, 95% Cl | |
| Pastore | 11 | 25 | 14 | 25 | 3.2% | 0.62 (0.20, 1.89) | |
| Ramirez Backhaus | 11 | 19 | 88 | | 3.2% | 0.75 [0.28, 1.99] | |
| Teber | 27 | 55 | 34 | | 7.0% | 0.60 [0.28, 1.27] | |
| Yang | 15 | 35 | 24 | | 5.5% | 0.34 [0.13, 0.91] | |
| Subtotal (95% CI) | 15 | 134 | 24 | 251 | 19.4% | 0.56 [0.35, 0.88] | • |
| Total events | 64 | | 160 | | 1011/0 | 0.00 [0.00, 0.00] | • |
| Heterogeneity: Chi ² = | | 3 (P = 0 | | | | | |
| Test for overall effect: | | | | • | | | |
| 4.1.2 RARP | | | | | | | |
| Hung | 14 | 16 | 172 | 184 | 1.4% | 0.49 [0.10, 2.40] | |
| Zugor | 35 | 80 | 46 | 80 | 10.5% | 0.57 [0.31, 1.07] | |
| Subtotal (95% CI) | | 96 | | 264 | 11.9% | 0.56 [0.31, 1.01] | - |
| Total events | 49 | | 218 | | | | |
| Heterogeneity: Chi ² = | 0.04, df = | 1 (P = 0 | .85); I ² = | 0% | | | |
| Test for overall effect: | Z=1.91 (| P = 0.08 | i) | | | | |
| 4.1.3 Mixed procedur | e of OP al 317 | nd RAR 470 | | 1410 | 0 0 0 M | 0 70 10 60 0 041 | _ |
| Pompe Subtotal (95% Cl) | 317 | 470 | 1045 | 1410 1410 | 68.8% 68.8% | 0.72 [0.58, 0.91] 0.72 [0.58, 0.91] | |
| Total events | 317 | 470 | 1045 | | 00.0% | 0.72 [0.56, 0.91] | • |
| Heterogeneity: Not ap | | | 1045 | | | | |
| Test for overall effect: | | P = 0.00 | 15) | | | | |
| Total (95% CI) | | 700 | | 1925 | 100.0% | 0.67 [0.56, 0.81] | • |
| Total success | 100 | | 1423 | | | | |
| Total events | 430 | | 1423 | | | | |
| Heterogeneity: Chi ² = | 2.77, df= | | .84); I ² = | | | | |
| Heterogeneity: Chi² = Test for overall effect: | 2.77, df= Z= 4.06 (l | P < 0.00 | .84); I² = 101) | 0% | .50), l² = (| 1% | L L L L L L L L L L L L L L L L L L L |
| Heterogeneity: Chi ² = | 2.77, df= Z= 4.06 (l | P < 0.00 Chi ² = 1 | .84); I² = 101) | 0% 2 (P = 0 | .50). I² = (| 0% Odds Ratio | |
| Heterogeneity: Chi² = Test for overall effect: Test for subaroup diff | 2.77, df = Z = 4.06 (l erences: (TURF | P < 0.00 Chi ² = 1 D | 1.84); I ² = 101) .39. df = non-TU | 0% 2 (P = 0 IRP | | | TURP non-TURP |
| Heterogeneity: Chi ² = Test for overall effect: Test for suboroup diffi 3 | 2.77, df = Z = 4.06 (l erences: (TURF | P < 0.00 Chi ² = 1 D | 1.84); I ² = 101) .39. df = non-TU | 0% 2 (P = 0 IRP | | Odds Ratio | TURP non-TURP Odds Ratio |
| Heterogeneity: Chi ² = Test for overall effect: Test for subaroup diffe 3 Study or Subgroup | 2.77, df = Z = 4.06 (l erences: (TURF | P < 0.00 Chi ² = 1 D | 1.84); I ² = 101) .39. df = non-TU | 0% 2 (P = 0 IRP | | Odds Ratio | TURP non-TURP Odds Ratio |
| Heterogeneity: Chi ² = Test for overall effect: Test for subaroup diffe 3 Study or Subgroup 4.2.1 LRP | 2.77, df = Z = 4.06 (f erences: C TURF Events | P < 0.00 Chi ² = 1 D Total | .84); ² = 01) 39. df = non-TU <u>Events</u> | 0% 2 (P = 0 IRP Total | Weight | Odds Ratio M-H, Fixed, 95% Cl | TURP non-TURP Odds Ratio |
| Heterogeneity: Chi ² = Test for overall effect: Test for subaroup diffe 3 <u>Study or Subgroup</u> 4.2.1 LRP Pastore | 2.77, df = Z = 4.06 (f erences: C TURF Events | P < 0.00 Chi² = 1 D Total 25 | .84); ² = 01) 39. df = non-TU <u>Events</u> | 0% 2 (P = 0 IRP <u>Total</u> 25 | <u>Weight</u> 17.2% | Odds Ratio M-H, Fixed, 95% Cl 0.56 [0.16, 1.92] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect. Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events | 2.77, df = Z = 4.06 (f erences: C TURF Events 16 16 | P < 0.00 Chi² = 1 D Total 25 | .84); ² =)01) 39. df = non-TU <u>Events</u> 19 | 0% 2 (P = 0 IRP <u>Total</u> 25 | <u>Weight</u> 17.2% | Odds Ratio M-H, Fixed, 95% Cl 0.56 [0.16, 1.92] | TURP non-TURP Odds Ratio |
| Heterogeneity: Chi ² = Test for overall effect. Test for subgroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneity: Not ap | 2.77, df= Z= 4.06 (l erences: C TURF Events 16 16 pplicable | P < 0.00 Chi ² = 1 <u>Total</u> 25 25 25 | .84); ² = 101) 39. df = 100-TU Events 19 | 0% 2 (P = 0 IRP <u>Total</u> 25 | <u>Weight</u> 17.2% | Odds Ratio M-H, Fixed, 95% Cl 0.56 [0.16, 1.92] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subgroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 pplicable Z = 0.92 (| < 0.00 Chi² = 1 Total 25 25 P = 0.3 | 1.84); ² = 101) 39. df = 1 9 19 19 6) | 0% 2 (P = 0 RP <u>Total</u> 25 25 | Weight 17.2% 17.2% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 plicable Z = 0.92 (18 | < 0.000 Chi² = 1 Total 25 25 P = 0.3 21 | 84); ² = 101) 39. df = non-TU <u>Events</u> 19 19 5) | 0% 2 (P = 0 RP Total 25 25 102 | Weight 17.2% 17.2% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect. Test for subgroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 plicable Z = 0.92 (18 15 | < 0.00 Chi² = 1 Total 25 25 25 P = 0.3 21 16 | 84); ² = 101) 39. df = non-TU <u>Events</u> 19 19 6) 90 179 | 0% 2 (P = 0 RP <u>Total</u> 25 25 102 184 | Weight 17.2% 17.2% 11.0% 4.5% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subgroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 plicable Z = 0.92 (18 | < 0.00 Chi² = 1 Total 25 25 25 P = 0.3 21 16 80 | 84); ² = 101) 39. df = non-TU <u>Events</u> 19 19 5) | 0% 2 (P = 0 IRP 25 25 25 102 184 80 | Weight 17.2% 17.2% 11.0% 4.5% 53.9% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% CI) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% CI) | 2.77, df = Z = 4.06 (j erences: C TURF Events 16 16 16 16 16 16 16 2 = 0.92 (j 18 15 54 | < 0.00 Chi² = 1 Total 25 25 25 P = 0.3 21 16 | .84); ² = 101) 39. df = 1 non-TU <u>Events</u> 19 19 5) 90 179 66 | 0% 2 (P = 0 RP <u>Total</u> 25 25 102 184 | Weight 17.2% 17.2% 11.0% 4.5% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% Cl) Total events | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 2 = 0.92 (l 18 15 54 87 | < 0.00 Chi² = 1 Total 25 25 P = 0.3 P = 0.3 16 80 117 | .84); ² = 101) 39. df = non-TU <u>Events</u> 19 19 5) 90 179 66 335 | 0% 2 (P = 0 RP 25 25 25 102 184 80 366 | Weight 17.2% 17.2% 11.0% 4.5% 53.9% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% CI) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% CI) | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 2 = 0.92 (l 18 15 54 87 0.59, df= | > < 0.00 Chi [≥] = 1 25 25 P = 0.31 16 80 117 2 (P = 1 | | 0% 2 (P = 0 RP 25 25 25 102 184 80 366 | Weight 17.2% 17.2% 11.0% 4.5% 53.9% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% Cl) Total events Heterogeneity: Chi ² = | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 2 = 0.92 (l 18 15 54 87 0.59, df= | > < 0.00 Chi [≥] = 1 25 25 P = 0.31 16 80 117 2 (P = 1 | | 0% 2 (P = 0 RP 25 25 25 102 184 80 366 | Weight 17.2% 17.2% 11.0% 4.5% 53.9% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% CI) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% CI) Total events Heterogeneily: Chi ² = Test for overall effect: | 2.77, df= Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 2 = 0.92 (l 18 15 54 87 0.59, df= | > < 0.00 Chi [≥] = 1 25 25 P = 0.31 16 80 117 2 (P = 1 | | 0% 2 (P = 0 RP 25 25 25 102 184 80 366 | Weight 17.2% 17.2% 11.0% 4.5% 53.9% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subgroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.2.3 OP | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 16 16 16 16 16 16 16 | > < 0.00 Chi² = 1 Total 25 25 25 25 25 26 27 26 27 21 16 80 117 2 (P = i P = 0.0 | | 0% 2 (P = 0 RP <u>Total</u> 25 25 102 184 80 366 : 0% | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subgroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Subtotal (95% Cl) Total events Heterogeneity: Chi ² = Test for overall effect: 4.2.3 OP Fragkoulis | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 16 16 16 18 15 54 87 0.59, df = Z = 2.22 (| > < 0.00° > hi² = 1 > Total 25 25 P = 0.3 21 16 80 117 2 (P = 1 P = 0.0 35 | | 0% 2 (P = 0 RP <u>Total</u> 25 25 102 184 80 366 : 0% | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% 13.4% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] 0.62 [0.16, 2.44] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subaroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% Cl) Total events Heterogeneily: Chi ² = Test for overall effect: 4.2.3 OP Fragkoulis Subtotal (95% Cl) Total events | 2.77, df = Z = 4.06 (j erences: C TURF Events 16 16 16 16 16 16 16 2 = 0.92 (18 15 54 87 0.59, df = Z = 2.22 (29 29 | > < 0.00° > hi² = 1 > Total 25 25 P = 0.3 21 16 80 117 2 (P = 1 P = 0.0 35 | | 0% 2 (P = 0 RP <u>Total</u> 25 25 102 184 80 366 : 0% | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% 13.4% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] 0.62 [0.16, 2.44] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneity: Not ap | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 16 16 16 16 16 16 16 | <pre>> 2 (0.00 hi² = 1 > Total 25 25 25 P = 0.3 21 16 80 117 2 (P = 1 2 (P = 1 2 (P = 1) 35 35</pre> | 0.84); P = 101) 39. df = 19 19 19 19 5) 90 179 65) 335 0.74); P = 33 31 31 | 0% 2 (P = 0 RP <u>Total</u> 25 25 102 184 80 366 : 0% | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% 13.4% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] 0.62 [0.16, 2.44] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff <u>Study or Subgroup</u> 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% Cl) Total events Heterogeneily: Chi ² = Test for overall effect: 4.2.3 OP Fragkoulis Subtotal (95% Cl) | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 16 16 16 16 16 16 16 | <pre>> 2 (0.00 hi² = 1 > Total 25 25 25 P = 0.3 21 16 80 117 2 (P = 1 2 (P = 1 2 (P = 1) 35 35</pre> | 0.84); P = 101) 39. df = 19 19 19 19 5) 90 179 65) 335 0.74); P = 33 31 31 | 0% 2 (P = 0 RP 25 25 102 184 80 366 : 0% | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% 13.4% | Odds Ratio M-H, Fixed, 95% CI 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] 0.62 [0.16, 2.44] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.2.3 OP Fragkoulis Subtotal (95% CI) Total events Heterogeneity: Not ap Test for overall effect: | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 16 16 16 16 16 16 16 | > 0.00 > 10.00 > 10.00 | 0.84); P = 101) 39. df = 19 19 19 19 5) 90 179 65) 335 0.74); P = 33 31 31 | 0% 2 (P = 0 RP 25 25 102 184 80 366 : 0% | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% 13.4% 13.4% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] 0.62 [0.16, 2.44] 0.62 [0.16, 2.44] | TURP non-TURP Odds Ratio |
| Heterogeneily: Chi ² = Test for overall effect: Test for subaroup diff 3 Study or Subgroup 4.2.1 LRP Pastore Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: 4.2.2 RARP Gupta Hung Zugor Subtotal (95% Cl) Total events Heterogeneily: Chi ² = Test for overall effect: 4.2.3 OP Fragkoulis Subtotal (95% Cl) Total events Heterogeneily: Not ap Test for overall effect: Total (95% Cl) | 2.77, df = Z = 4.06 (l erences: C TURF Events 16 16 16 16 16 16 16 16 16 16 16 16 16 | <pre>> 2 0.00 hi² = 1 2 25 25 P = 0.3 16 80 117 2 (P = 1 P = 0.0 35 35 P = 0.5 177</pre> | | 0% 2 (P = 0 RP Total 25 25 25 102 184 80 366 : 0% 35 35 35 | Weight 17.2% 17.2% 11.0% 4.5% 53.9% 69.4% 13.4% 13.4% | Odds Ratio <u>M-H, Fixed, 95% C1</u> 0.56 [0.16, 1.92] 0.56 [0.16, 1.92] 0.80 [0.20, 3.13] 0.42 [0.05, 3.82] 0.44 [0.21, 0.93] 0.50 [0.27, 0.92] 0.62 [0.16, 2.44] 0.62 [0.16, 2.44] | TURP non-TURP Odds Ratio |

Figure 8 Forest plot for (A) continence rates at 3 months; (B) continence rates at 6 months.

TURP within a 7-year' follow-up (30). Furthermore, even after careful evaluation of PSA levels and a digital rectal examination (DRE), around 6.4% to 11.4% of patients who undergo a TURP because of bladder outlet obstruction could be diagnosed with an incidental prostate carcinoma (31-33). Unfortunately, studies investigating RP with or without a previous TURP have achieved conflicting results. Hampton *et al.* compared RPs in 51 patients with a previous TURP and 102 patients without a previous TURP, and concluded that patients who had received a previous TURP had higher positive margin rates (7). However, Zugor *et al.* performed a match-paired analysis with 160 patients

| А | TURP | | non-TL | IRP | | Odds Ratio | Odds Ratio |
|---|--|--|---|---|---|--|----------------------------------|
| Study or Subgroup | | | | | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% CI |
| 4.3.1 LRP | | | | | | | |
| Teber | 49 | 55 | 50 | 55 | 3.2% | 0.82 [0.23, 2.85] | |
| Menard | 34 | 46 | 497 | 594 | 10.9% | 0.55 [0.28, 1.11] | |
| Subtotal (95% CI) | | 101 | | 649 | 14.1% | 0.61 [0.33, 1.13] | |
| Total events | 83 | 1 /0 - | 547 500-12- | - 00 | | | |
| Heterogeneity: Chi ² = Test for overall effect: | | | | = 0% | | | |
| 4.3.2 RARP | | | | | | | |
| Zugor | 70 | 80 | 73 | 80 | 5.3% | 0.67 [0.24, 1.86] | |
| Hung | 15 11 | 16 14 | 180 78 | 184 85 | 1.1% | 0.33 [0.04, 3.17] | |
| Gupta Subtotal (95% CI) | | 110 | 78 | 349 | 2.8% 9.2% | 0.33 [0.07, 1.46] 0.53 [0.24, 1.19] | |
| Total events | 96 | | 331 | 545 | 5.270 | 0.00 [0.24, 1.10] | |
| Heterogeneity: Chi ² = | | 2 (P = 1 | | = 0% | | | |
| Test for overall effect: | | | | | | | |
| 4.3.3 OP | | | | | | | |
| Palisaar | 50 | 62 | 51 | 62 | 5.8% | 0.90 [0.36, 2.22] | |
| Fragkoulis Subtotal (95% CI) | 33 | 35 97 | 33 | 35 97 | 1.1% 6.9% | 1.00 [0.13, 7.53] 0.91 [0.40, 2.09] | |
| Total events | 83 | 51 | 84 | 51 | 0.970 | 0.51 [0.40, 2.03] | |
| Heterogeneity: Chi ² = Test for overall effect: | 0.01, df = 1 | | 0.92); l² : | = 0% | | | |
| 4.3.4 Mixed procedur | re of OP ar | nd RAF | P | | | | _ |
| Pompe | 380 | 470 | 1246 | 1410 | 69.8% | 0.56 [0.42, 0.74] | ₹ |
| Subtotal (95% CI) | | 470 | | 1410 | 69.8% | 0.56 [0.42, 0.74] | • |
| Total events | 380 | | 1246 | | | | |
| Heterogeneity: Not ap Test for overall effect: | | P < 0.0 | 001) | | | | |
| Total (95% CI) | | 778 | | 2505 | 100.0% | 0.59 [0.46, 0.74] | • |
| Total events | 642 | | 2208 | | | | |
| Heterogeneity: Chi ² = | 2.44, df = 1 | 7 (P = | 0.93); l² : | = 0% | | | |
| Test for overall effect: | | | | | | | TURP non-TURP |
| Test for subaroup diff | erences: C | ≿hi² = 1 | .33. df = | 3 (P = | 0.72). I ² = | 0% | |
| - | | | | | | | |
| В | TURP | | non-Tl | IRP | | Odds Ratio | Odds Ratio |
| Study or Subgroup | | | | | Weight | Odds Ratio M-H, Fixed, 95% Cl | Odds Ratio M-H, Fixed, 95% Cl |
| Study or Subgroup 4.4.1 LRP | Events | Total | Events | Total | | M-H, Fixed, 95% Cl | |
| Study or Subgroup 4.4.1 LRP Menard | Events 6 | <u>Total</u> 16 | Events 134 | <u>Total</u> 302 | 3.7% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] | |
| Study or Subgroup 4.4.1 LRP Menard Teber | Events | <u>Total</u> 16 30 | Events | Total 302 40 | 3.7% 4.4% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] | |
| <u>Study or Subgroup</u> 4.4.1 LRP Menard Teber Subtotal (95% CI) | Events 6 18 | <u>Total</u> 16 | Events 134 29 | <u>Total</u> 302 | 3.7% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events | Events 6 18 24 | 16 16 30 46 | Events 134 29 163 | 302 40 342 | 3.7% 4.4% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] | |
| <u>Study or Subgroup</u> 4.4.1 LRP Menard Teber Subtotal (95% CI) | Events 6 18 24 0.14, df = | <u>Total</u> 16 30 46 1 (P = 1 | Events 134 29 163 0.71); I ² : | 302 40 342 | 3.7% 4.4% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP | Events 6 18 24 0.14, df = Z = 1.15 (F | 16 30 46 1 (P = 1 P = 0.2 | Events 134 29 163 0.71); I [≈] : 5) | Total 302 40 342 = 0% | 3.7% 4.4% 8.1 % | M-H, Fixed, 95% CI 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi² = Test for overall effect: 4.4.2 RARP Gupta | Events 6 18 24 0.14, df = Z = 1.15 (F 2 | Total 16 30 46 1 (P = 1 P = 0.2 8 | Events 134 29 163 0.71); I ² : 5) 20 | Total 302 40 342 = 0% 61 | 3.7% 4.4% 8.1 % 1.5% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi² = Test for overall effect: 4.4.2 RARP Gupta Zugor | Events 6 18 24 0.14, df = Z = 1.15 (F | Total 16 30 46 1 (P = 1 P = 0.2 8 54 | Events 134 29 163 0.71); I [≈] : 5) | Total 302 40 342 = 0% 61 67 | 3.7% 4.4% 8.1 % 1.5% 6.8% | M-H, Fixed, 95% CI 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) | Events 6 18 24 0.14, df = 7 Z = 1.15 (P 2 38 | Total 16 30 46 1 (P = 1 P = 0.2 8 | Events 134 29 163 0.71); I ² : 5) 20 58 | Total 302 40 342 = 0% 61 | 3.7% 4.4% 8.1 % 1.5% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) Total events | Events 6 18 24 0.14, df= Z = 1.15 (F 2 38 40 | Total 16 30 46 1 (P = 1 P = 0.2 8 54 62 | Events 134 29 163 0.71); I ² 5) 20 58 78 | Total 302 40 342 = 0% 61 67 128 | 3.7% 4.4% 8.1 % 1.5% 6.8% | M-H, Fixed, 95% CI 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) | Events 6 18 24 0.14, df= - Z = 1.15 (F 2 38 40 0.40, df = | Total 16 30 46 1 (P = 1 P = 0.2 8 54 62 1 (P = 1 | Events 134 29 163 0.71); I ² 5) 20 58 78 0.53); I ² | Total 302 40 342 = 0% 61 67 128 | 3.7% 4.4% 8.1 % 1.5% 6.8% | M-H, Fixed, 95% CI 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: Heterogeneity: Chi ² = Test for overall effect: 4.4.3 OP | Events 6 18 24 0.14, df = Z = 1.15 (F 2 38 40 0.40, df = Z = 2.07 (F | Total 16 30 46 1 (P = 1 P = 0.2 8 54 62 1 (P = 1 P = 0.0 | Events 134 29 163 0.71); I ² : 5) 20 58 78 0.53); I ² : 4) | Total 302 40 342 = 0% 61 67 128 = 0% | 3.7% 4.4% 8.1% 1.5% 6.8% 8.3% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] 0.43 [0.19, 0.96] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.3 OP Fragkoulis | Events 6 18 24 0.14, df = ' Z = 1.15 (F 2 38 40 0.40, df = ' Z = 2.07 (F 12 | Total 16 30 46 1 ($P = 1$ P = 0.2 8 54 62 1 ($P = 1$ P = 0.0 23 | Events 134 29 163 0.71); ₹= 5) 20 58 78 0.53); ₹= 4) 14 | Total 302 40 342 = 0% 61 67 128 = 0% 23 | 3.7% 4.4% 8.1% 1.5% 6.8% 8.3% 3.0% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] 0.43 [0.19, 0.96] 0.70 [0.22, 2.26] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) Total events Heterogeneity: Chi² = Test for overall effect: 4.4.3 OP Fragkoulis Palisaar | Events 6 18 24 0.14, df = Z = 1.15 (F 2 38 40 0.40, df = Z = 2.07 (F | Total 16 30 46 1 ($P = -2$ 54 62 1 ($P = -2$ 23 25 | Events 134 29 163 0.71); I ² : 5) 20 58 78 0.53); I ² : 4) | Total 302 40 342 = 0% 61 67 128 = 0% 23 25 | 3.7% 4.4% 8.1% 1.5% 6.8% 8.3% 3.0% 2.1% | M-H, Fixed, 95% CI 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] 0.43 [0.19, 0.96] 0.70 [0.22, 2.26] 0.79 [0.21, 3.03] | |
| Study or Subgroup 4.4.1 LRP Menard Teber Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.2 RARP Gupta Zugor Subtotal (95% CI) Total events Heterogeneity: Chi ² = Test for overall effect: 4.4.3 OP Fragkoulis Palisaar Subtotal (95% CI) | Events 6 18 24 0.14, df = Z = 1.15 (F 2 38 40 0.40, df = Z = 2.07 (F 12 19 | Total 16 30 46 1 ($P = 1$ P = 0.2 8 54 62 1 ($P = 1$ P = 0.0 23 | Events 134 29 163 0.71); I [≈] : 5) 20 58 78 0.53); I [≈] : 4) 14 20 | Total 302 40 342 = 0% 61 67 128 = 0% 23 | 3.7% 4.4% 8.1% 1.5% 6.8% 8.3% 3.0% | M-H, Fixed, 95% Cl 0.75 [0.27, 2.12] 0.57 [0.21, 1.56] 0.65 [0.32, 1.35] 0.68 [0.13, 3.69] 0.37 [0.15, 0.92] 0.43 [0.19, 0.96] 0.70 [0.22, 2.26] | |
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Figure 9 Forest plot for (A) continence rates at 12 months; (B) potency rates at 12 months.

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and concluded that RP could be safely conducted after a previous TURP with the same functional and oncological outcomes (8). Additionally, Do *et al.* conducted RPs on 100 patients who had undergone a previous TURP, which led to promising and comparable perioperative, functional, and oncological outcomes (9).

This meta-analysis of 15 retrospective studies, including 6,840 patients, which compared a RP with or without a previous TURP, showed that a RP after a TURP compromised perioperative outcomes, had longer operative times, more blood loss, higher complication rates, longer hospital stays, and a longer duration of catheter use. Furthermore, it compromised oncological outcomes, resulting in higher positive surgical margin rates, along with functional outcomes, including lower complete continence rates after 3, 6, and 12 months of follow-up and lower erectile function after 12 months of follow-up. While subgroup analyses indicated that an open RP could eliminate these differences and achieve nearly uncompromised results.

There are concerns that previous TURP could change the prostate anatomy and make a RP more challenging (11) and cause difficulties mainly concentrated on resecting the posterior bladder neck and dissecting the posterior plane of the prostate (14). A possible explanation for the compromised results is that the infection of the prostate along with the capsular perforation and extravasation of irrigation fluid during a TURP could cause periprostatic inflammation and fibrosis (34,35). Additionally, after the removal of prostatic tissue, the prostatovesicular junction becomes floppy, which results in identification difficulties (12). Moreover, most of the patients underwent a previous TURP because of bladder outlet obstruction, which could thicken the bladder wall and make it difficult for urethrovesical anastomosis (17). Furthermore, for functional outcomes, identifying and preserving adequate residual urethral length are difficult as a result of the surrounding fibrosis, which may influence urethrovesical anastomosis and long-term continence. In addition, TURP can cause the internal sphincter mechanism to become deficient (17). Moreover, it is difficult to identify and preserve the neurovascular bundle because of periprostatic adhesions caused by periprostatic inflammation and fibrosis (11). However, subgroup analyses showed that an open RP could be safely and effectively performed after a previous TURP. One possible explanation is that OP can separate periprostatic inflammation and fibrosis subtly, and lead to better results.

Recently, Veccia et al. conducted a meta-analysis of LRP and RARP after previous bladder outlet surgery (BOS), and concluded that a minimally invasive RP after BOS led to worse outcomes (36). The authors recommended RARP for these patients. However, both their results and the results of this meta-analysis found no better outcomes in the RARP group. Also, they missed the study reported by Teber et al. (16). Another difference is that we only included RP after TURP. However, they included RP after TURP along with other BOS techniques, and as the authors stated, this was one of their limitations. There are also some studies which evaluated the outcomes of RP after other BOS techniques and led to conflicting results. For example, Eden et al. included 600 patients, 42 of which had undergone a previous BOS. The authors reported that previous prostate surgery resulted in similar operative times, blood loss, oncological outcomes, and functional outcomes (37). Suardi et al. evaluated the feasibility and safety of radical retropubic prostatectomy after holmium laser enucleation of the prostate (HoLEP) and concluded that a RP was feasible after a previous HoLEP (38). Martin et al. reviewed 510 patients, of which 24 patients had undergone previous treatment of the prostate, including transurethral microwave therapy, transurethral resection or incision of the prostate, photoselective vaporization, transurethral needle ablation, external beam radiotherapy, simple prostatectomy, open bladder neck reconstruction and brachytherapy. The authors concluded that a prostatic treatment history had no effect on perioperative outcomes during RARP (39). The reason for the contradictory results may be that different technologies have led to different changes in the prostate, periprostate, and bladder neck.

There are some limitations to this meta-analysis. Firstly, all the articles included were retrospective, and the number of patients was relatively small. As such, it cannot avoid selection and recall bias. Furthermore, Funnel plots indicated that there was a publication bias. Secondly, as a RP is a long learning curve surgery and the studies included were from all over the world, different surgeons and different centrals may have affected the outcomes. Thirdly, we could not include the time lapsed from TURP to RP within the meta-analysis, and obviously, different times could have influenced the outcomes. Finally, there was limited information on the oncological outcomes, and longterm follow-up of the patient's biochemical recurrence and overall survival are needed.

Conclusions

This meta-analysis suggests that RP after a previous TURP

leads to worse perioperative, oncological, and functional outcomes. For these patients, an open procedure should instead be recommended. Due to the low number of studies and the known bias, further large-scale studies are needed to support this result.

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Footnote

Conflicts of Interest: The authors have no conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved. This article does not contain human participants or animals.

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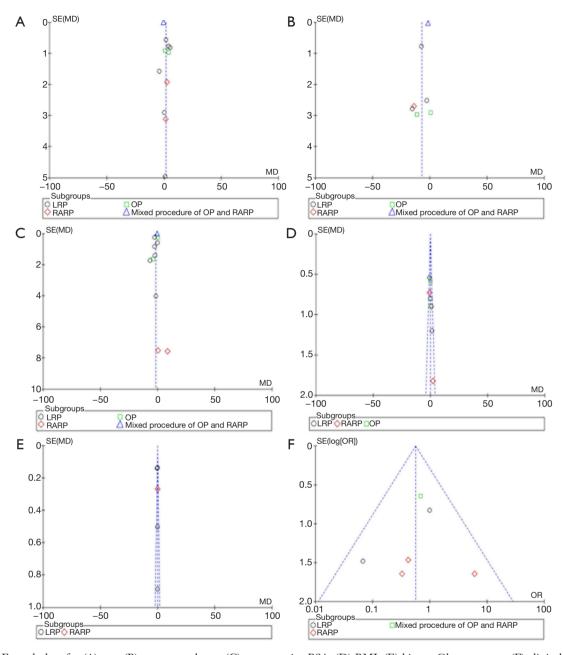


Figure S1 Funnel plots for (A) age; (B) prostate volume; (C) preoperative PSA; (D) BMI; (E) biopsy Gleason score; (F) clinical stage \geq T3. BMI, body mass index.

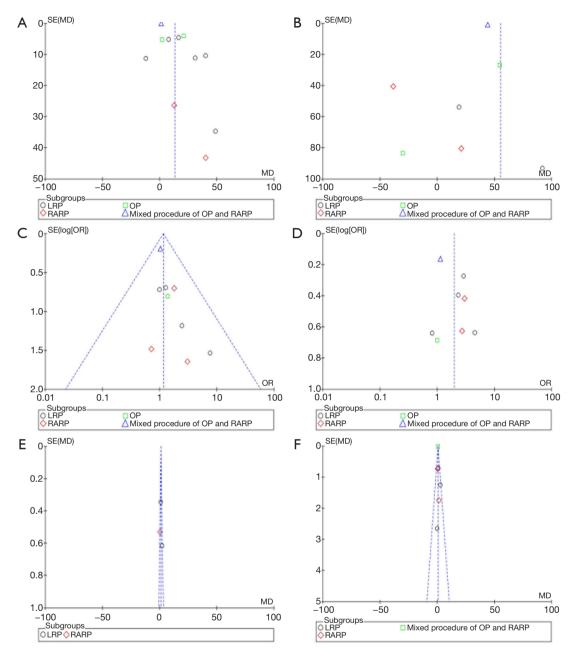


Figure S2 Funnel plots for (A) operative time; (B) estimated blood loss; (C) blood transfusion rates; (D) complication rates; (E) hospital stay; (F) duration of catheter.

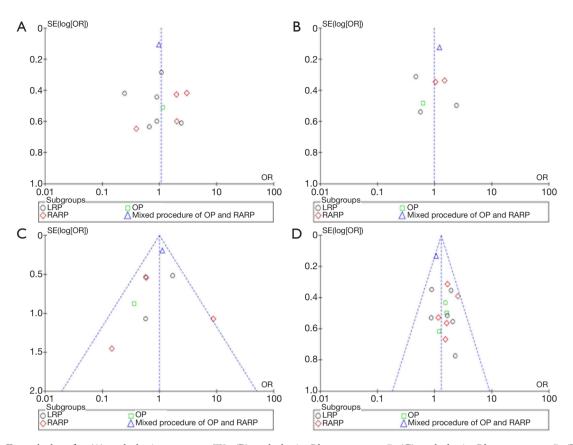


Figure S3 Funnel plots for (A) pathologic stage \geq T3; (B) pathologic Gleason score =7; (C) pathologic Gleason score >7; (D) positive surgical margin rates.

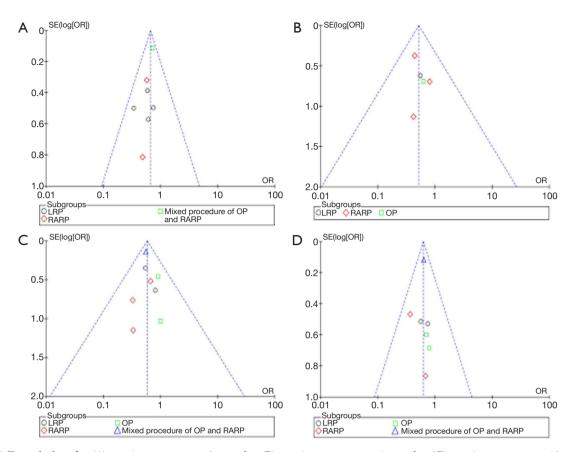


Figure S4 Funnel plots for (A) continence rates at 3 months; (B) continence rates at 6 months; (C) continence rates at 12 months; (D) potency rates at 12 months.