**Supplementary Fig. S12.** Pooled odd ratio of lymphovascular invasion in in mismatch repair (MMR) deficiency in endometrial carcinoma (EC) vs. proficient MMR EC [2,3,4,13,15-21,22,24,25]. CI, confidence interval.

| Study               | Intervention | Controls | Odds ratio | 95% CI       | z    | P     |
|---------------------|--------------|----------|------------|--------------|------|-------|
| Stelloo et al. 2016 | 19/219       | 18/115   | 3.55       | 1.622 to 6.122 |      |       |
| An et al. 2007      | 7/77         | 5/69     | 1.960      | 2.376 to 33.781 |      |       |
| Arabi et al. 2009   | 14/25        | 42/66    | 0.72    | 0.285 to 1.853 |      |       |
| Black et al. 2006   | 30/30        | 99/380   | 1.352     | 0.827 to 2.209 |      |       |
| Nagle et al. 2018   | 55/163       | 130/565  | 1.704     | 1.166 to 2.490 |      |       |
| Komnanns et al. 2018| 25/125       | 35/352   | 2.264     | 1.293 to 3.965 |      |       |
| Ruiz et al. 2014    | 6/64         | 7/148    | 2.084     | 0.671 to 6.467 |      |       |
| Shikums et al. 2016 | 27/62        | 57/129   | 0.974     | 0.529 to 1.794 |      |       |
| Talhouk et al. 2016 | 7/12         | 10/32    | 3.080     | 0.793 to 12.116 |      |       |
| Talhouk et al. 2017 | 28/62        | 155/240  | 1.502     | 0.853 to 2.644 |      |       |
| Total (fixed effects)| 218/482      | 488/2596 | 1.673     | 1.373 to 2.038 | 5.103| <0.001|
| Total (random effects)| 218/482     | 488/2596 | 1.765     | 1.293 to 2.409 | 3.576| <0.001|

Q: 18.590

DF: 9

Significance level: \( P = 0.028 \)

\( \Gamma \) (inconsistency): 51.59%

95% CI for \( \Gamma \): 0.53 to 76.44