**Appendix 1: Supplemental Tables**

**Table S1. The Quality of Enrolled Studies**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Newcastle Ottawa Score** | | | | | | | | | | |
| **Study (author, year)** | **Case selection** | | | | **Comparability** | | **Outcome assessment** | **Follow-up** | **Sufficiency** | **Overall score** |
| **1** | **2** | **3** | **4** | **1** | **2** |
| Nussbaum et al 2016a (19) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Trovik et al 2014(8) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Bates et al 2018(10) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Tseng et al 2011(9) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Zhou et al 2010(13) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Datta et al 2017(11) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Lepechoux et al 2013(12) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Gronchi et al 2009† (16) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Gronchi et al 2009‡ (16) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Gronchi et al 2012† (17) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Gronchi et al 2012‡ (17) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Stahl et al 2017† (15) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Stahl et al 2017‡ (15) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Klooster et al 2016† (20) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Klooster et al 2016‡ (20) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Nathan et al 2009(5) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Berger et al 2018(22) | \* | \* | \* |  |  | \* | \* | \* | \* | 7 |
| Chouliaras et al 2019a (21) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Miura et al 2015a† (18) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |
| Miura et al 2015a‡ (18) | \* | \* | \* |  | \* | \* | \* | \* | \* | 8 |

**Notes:** a Propensity score matched (PSM); †,‡ Adjuvant radiotherapy (†) and adjuvant chemotherapy (‡) in the same study

**Table S2. Begg’s and Egger’s Test for Publication Bias**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Categories** | **Begg’s Test** | | **Egger’s Test** | |
| **Z-value** | **Pr>/z/** | **T-value** | **Pr>/t/** |
| **OS** | | | | |
| Adjuvant radiotherapy | 0.44 | 0.661 | -1.29 | 0.221 |
| Adjuvant chemotherapy | 0.00 | 1.000 | -0.06 | 0.953 |
| **RFS** | | | | |
| Adjuvant radiotherapy | 1.02 | 0.308 | -2.30 | 0.148 |