**Additional file 1. Methodological Quality of Studies Included in the Meta-analysis.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First author | Year | Selection | Comparison | Exposure/Outcome | Total score |
| Ferrucci | 2015 | ☆☆☆☆ | ☆☆ | ☆☆☆ | 9 |
| Khoja | 2016 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Zaragoza | 2016 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Araujo | 2017 | ☆☆☆☆ | - | ☆☆☆ | 7 |
| Cassidy | 2017 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Chow | 2017 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Jung | 2017 | ☆☆☆☆ | - | ☆☆☆ | 7 |
| Capone | 2018 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Garnier | 2018 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Minowa | 2018 | ☆☆☆☆ | - | ☆☆☆ | 7 |
| Rosner | 2018 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Afzal | 2019 | ☆☆☆☆ | ☆☆ | ☆☆☆ | 9 |
| Lee | 2019 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Marconcini | 2019 | ☆☆☆☆ | - | ☆☆☆ | 7 |
| Martins S | 2019 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Tsutsumida, A | 2019 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |
| Balatoni T | 2020 | ☆☆☆☆ | - | ☆☆☆ | 7 |
| Bartlett E | 2020 | ☆☆☆☆ | ☆ | ☆☆☆ | 8 |

**Additional file 2. Funnel plot (A) and Egger test (B) for the pooled HR of OS in melanoma patients receiving immunotherapy between high and low baseline NLR.**



**Additional file 3. Funnel plot (A) and Egger test (B) for the pooled HR of PFS in melanoma patients receiving immunotherapy between high and low baseline NLR.**

