**Supplemental Digital Content 2**

**Risk of Bias using the Quality in Prognosis Studies**

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| --- | --- | --- | --- | --- | --- | --- |
| **Paper** | **Study Participation** | **Study Attrition** | **Prognostic Factor Measurement** | **Outcome Measurement** | **Study Confounding** | **Statistical Analysis and Reporting** |
| Bruggink, Cioni, et al 2009 | Low | Mod | Low | Low | High | Low |
| Hitzert, Roze, et al, 2014 | Low | Low | Low | Low | Mod | Low |
| Yuge, Marschik, et al, 2011 | Low | Low | Low | Mod | Mod | Low |
| Salavati et al, 2017 | Low | Mod | Low | Low | Mod | Mod |
| Bruggink, Einspieler et al, 2009 | Low | Mod | Mod | Mod | Mod | Low |
| Butcher et al, 2009 | Low | Mod | Mod | Low | Low | Low |
| Adde, et al, 2016 | Low | High | Mod | Mod | Low | Low |
| Yang et al, 2012 | Mod | Low | Low | Low | High | Low |
| Einspieler, Utsch et al, 2019 | Low | High | Low | Mod | Mod | Low |
| Einspieler, Bos et al, 2019 | Mod | Low | Mod | Low | Low | Low |
| Zang, Yang, et al, 2016 | Mod | Low | Low | Low | Mod | Low |
| Peyton, Einspieler et al, 2020 | Low | Mod | Low | Low | Mod | Mod |

**Quality of studies reporting on MOS as a predictive tool (using QUIPS)**