**Table 2.** Result of Meta-Analysis on Odds Ratios of Grade III-V Anemia, Neutropenia and Thrombocytopenia Comparing the Additional ICI Use With Control Therapy as per Different Types of ICIs

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Anti-PD-1** | **Anti-PD-L1** | **Anti-CTLA-4** |
| **ICI arm** | **Control arm** | **Odds ratio (95% CI)** | **Number of studies** | **I2** | **ICI arm** | **Control arm** | **Odds ratio (95% CI)** | **Number of studies** | **I2** | **ICI arm** | **Control arm** | **Odds ratio (95% CI)** | **Number of studies** | **I2** |
| **Events** | **Total** | **Events** | **Total** | **Events** | **Total** | **Events** | **Total** | **Events** | **Total** | **Events** | **Total** |
| Anemia | 346 | 3,901 | 195 | 2,994 | 1.06 (0.80 - 1.40) | 10 | 39% | 169 | 4,713 | 146 | 4,044 | 1.05 (0.83 - 1.32) | 13 | 0% | 58 | 2,057 | 60 | 1,813 | 0.84 (0.46 - 1.55) | 5 | 57% |
|  Combination of cytotoxic agents | 342 | 3,625 | 186 | 2,723 | 1.18 (0.98 - 1.43) | 9 | 42% | 160 | 4,021 | 132 | 3,355 | 1.09 (0.85 - 1.39) | 12 | 0% | 43 | 1,664 | 42 | 1,417 | 0.83 (0.36 - 1.95) | 4 | 67% |
|  Combination of non-cytotoxic agents | 4 | 276 | 9 | 271 | 0.43 (0.13 - 1.40) | 2 | 0% | 9 | 692 | 14 | 689 | 0.63 (0.27 - 1.47) | 2 | 0% | 15 | 393 | 18 | 396 | 0.83 (0.41 - 1.68) | 1 | - |
| Neutropenia | 598 | 3,779 | 333 | 2,871 | 1.13 (0.96 - 1.32) | 9 | 0% | 217 | 4,599 | 177 | 3,980 | 1.16 (0.93 - 1.44) | 13 | 0% | 36 | 1,644 | 34 | 1,417 | 1.02 (0.63 - 1.66) | 4 | 0% |
|  Combination of cytotoxic agents | 596 | 3,625 | 333 | 2,723 | 1.12 (0.96 - 1.31) | 8 | 0% | 211 | 4,021 | 174 | 3,355 | 1.14 (0.91 - 1.43) | 11 | 0% | 35 | 1,284 | 34 | 1,285 | 1.04 (0.57 - 1.89) | 3 | 28% |
|  Combination of non-cytotoxic agents | 2 | 154 | 0 | 148 | 4.87 (0.23 - 102.2) | 1 | 0% | 6 | 578 | 3 | 625 | 1.89 (0.51 - 7.04) | 2 | 0% | 1 | 380 | 0 | 132 | 1.05 (0.04 - 25.87) | 1 | - |
| Thrombocytopenia | 52 | 2,619 | 38 | 2,383 | 1.19 (0.77 - 1.83) | 8 | 0% | 106 | 3,641 | 64 | 3,049 | 1.53 (1.11 - 2.11) | 10 | 0% | 19 | 2,057 | 22 | 1,813 | 0.82 (0.43 - 1.54) | 5 | 0% |
|  Combination of cytotoxic agents | 51 | 2,343 | 37 | 2,112 | 1.20 (0.77 - 1.85) | 6 | 0% | 105 | 3,063 | 63 | 2,424 | 1.54 (1.11 - 2.13) | 8 | 0% | 18 | 1,677 | 22 | 1,681 | 0.82 (0.41 - 1.64) | 4 | 8% |
|  Combination of non-cytotoxic agents | 1 | 276 | 1 | 271 | 0.98 (0.10 - 9.52) | 2 | 0% | 1 | 578 | 1 | 625 | 1.10 (0.11 - 10.59) | 2 | 0% | 3 | 1,234 | 2 | 1,028 | 1.04 (0.25 - 4.37) | 1 | - |

CI: confidence interval; CTLA-4: cytotoxic T lymphocyte antigen-4; ICI: immune checkpoint inhibitor; PD-1: programmed cell death-1 receptor; PD-L1: programmed cell death-1 receptor ligand.