**Supplemental table 3. Subgroup analysis for the outcome of the risk of perioperative allogeneic blood transfusion.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Number of****studies** | **PANH** |  | **Control** |  | **M-H pooled RR** |  |  | **D+L pooled RR** |  |  | **Heterogeneity** |  |  | **τ2** |
|  |  | **N+** | **Total** | **N+** | **Total** | **RR (95%CI)** | **z** | **p** | **RR (95%CI)** | **z** | **p** | **χ2** | **I2 (%)** | **p** |  |
| Total | 37 | 496 | 1360 | 626 | 1351 | 0.76 (0.70, 0.83) | 6.49 | <0.0001 | 0.74 (0.63, 0.88) | 3.44 | 0.001 | 151.95 | 79.6 | <0.0001 | 0.14 |
| **Type of Surgery** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cardiac surgery | 18 | 342 | 732 | 406 | 730 | 0.81 (0.73, 0.89) | 4.37 | <0.0001 | 0.78 (0.62, 0.99) | 2.08 | 0.038 | 79.45 | 83.6 | <0.0001 | 0.12 |
| Orthopedic surgery | 8 | 69 | 183 | 76 | 171 | 0.82 (0.66, 1.02) | 1.78 | 0.075 | 0.82 (0.62, 1.08) | 1.43 | 0.152 | 12.68 | 44.8 | 0.08 | 0.07 |
| Liver surgery | 3 | 17 | 182 | 54 | 186 | 0.32 (0.20, 0.53) | 4.40 | <0.0001 | 0.34 (0.20, 0.56) | 4.17 | <0.0001 | 2.03 | 1.4 | 0.36 | 0.03 |
| Maxillofacial surgery | 2 | 1 | 37 | 4 | 42 | 0.31 (0.04, 2.51) | 1.10 | 0.272 | 0.31 (0.04, 2.51) | 1.10 | 0.272 | 0.00 | NA | NA | 0.14 |
| Major general surgery | 4 | 42 | 193 | 59 | 187 | 0.71 (0.51, 0.98) | 2.05 | 0.040 | 0.67 (0.40, 1.13) | 1.50 | 0.134 | 6.19 | 51.6 | 0.10 | 0.14 |
| Vascular surgery | 1 | 10 | 16 | 13 | 18 | 0.87 (0.54, 1.39) | 0.60 | 0.551 | 0.87 (0.54, 1.39) | 0.60 | 0.551 | 0.00 | NA | NA | 0.003 |
| Neurosurgery | 1 | 15 | 17 | 14 | 17 | 1.07 (0.81, 1.42) | 0.48 | 0.629 | 1.07 (0.81, 1.42) | 0.48 | 0.629 | 0.00 | NA | NA | 0.14 |
| **Transfusion protocol** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Yes | 34 | 450 | 1281 | 570 | 1279 | 0.77 (0.71, 0.84) | 6.05 | <0.0001 | 0.76 (0.64, 0.90) | 3.17 | 0.002 | 141.95 | 79.6 | <0.0001 | 0.13 |
| No | 3 | 46 | 79 | 56 | 72 | 0.60 (0.40,0.88) | 2.61 | 0.009 | 0.60 (0.41, 0.88) | 2.60 | 0.009 | 0.06 | 0.0 | 0.80 | <0.0001 |
| **Volume of withdrawn blood** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <500 ml | 8 | 203 | 400 | 236 | 399 | 0.85 (0.77, 0.95) | 2.91 | 0.004 | 0.83 (0.62, 1.10) | 1.32 | 0.187 | 32.77 | 81.7 | <0.0001 | 0.10 |
| 500-1000 ml | 16 | 156 | 406 | 185 | 389 | 0.78 (0.67, 0.90) | 3.34 | 0.001 | 0.78 (0.63, 0.98) | 2.16 | 0.031 | 30.86 | 57.9 | 0.004 | 0.08 |
| 1000-2000 ml | 5 | 52 | 171 | 71 | 171 | 0.56 (0.37, 0.83) | 2.88 | 0.004 | 0.60 (0.31, 1.16) | 1.52 | 0.128 | 8.90 | 66.3 | 0.03 | 0.29 |
| >2000 ml | 3 | 23 | 167 | 43 | 171 | 0.55 (0.35, 0.87) | 2.56 | 0.011 | 0.54 (0.29, 1.02) | 1.89 | 0.059 | 3.47 | 42.4 | 0.18 | 0.13 |

N+: The number of exposure to allogeneic blood transfusion; Total, The number of the total patients; RR, Relative risk.