**Supplementary table 1** Subgroup analysis of randomized controlled trials

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Proportion of patients** | |  |  |  |  |  |
| **Subgroup** | **No. of Comparisons** | Dexmedetomidine | Control | **OR** | **95% CI** | ***P* Value** | ***I*2** | ***P*Difference Value** |  |  |  |  |
| **1. Country** | 4 |  |  |  |  |  |  |  |
| China | 3 | 6/167 | 12/168 | 0.48 | 0.18-0.32 | 0.16 | 0.00% | 0.55 |
| Korea | 1 | 2/19 | 5/19 | 0.33 | 0.06-1.97 | 0.22 | NA | NA |
| **2. AKI definition** | 4 |  |  |  |  |  |  |  |
| KDIGO | 3 | 5/91 | 14/92 | 0.32 | 0.11-0.93 | 0.04 | 0.00% | 1.00 |
| Other | 1 | 3/95 | 3/95 | 1.00 | 0.20-5.08 | 1.00 | NA | NA |
| **3. Gender (Male, %)** | 4 |  |  |  |  |  |  |  |
| ≥ 50% | 3 | 5/91 | 14/92 | 0.32 | 0.11-0.93 | 0.04 | 0.00% | 1.00 |
| ＜50% | 1 | 3/95 | 3/95 | 1.00 | 0.20-5.08 | 1.00 | NA | NA |
| **4. Previous DM (%)** | 3 |  |  |  |  |  |  |  |
| ≥ 10% | 1 | 2/19 | 5/19 | 0.33 | 0.06-1.97 | 0.22 | NA | NA |
| ＜10% | 2 | 5/139 | 9/140 | 0.54 | 0.18-1.67 | 0.29 | 0.00% | 0.32 |
| **5. Endoscopy surgery** | 4 |  |  |  |  |  |  |  |
| Yes | 2 | 3/72 | 9/73 | 0.31 | 0.08-1.19 | 0.09 | 0.00% | 1.00 |
| No | 2 | 5/114 | 8/114 | 0.59 | 0.18-1.91 | 0.38 | 0.00% | 0.37 |

AKI, acute kidney injury; KDIGO, Kidney Disease: Improving Global Outcome; DM, diabetes mellitus; NA, not available.