**Supplemental Table 1 Summary of findings for the main comparison**

| **Summary of findings for the main comparison** |
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| **Desflurane compared to sevoflurane in ambulatory surgery** |
| **Patient or population**: Adults or paediatrics, receiving general anaesthesia, non-sedation procedure**Setting**: ambulatory surgery**Intervention**: Desflurane **Comparison**: Sevoflurane  |
| Outcomes | **Anticipated absolute effects\*** (95% CI) | Relative effect(95% CI)  | № of participants (studies)  | Certainty of the evidence(GRADE)  | Comments |
| 1. **Risk with Sevoflurane**
 | 1. **Risk with Desflurane**
 |
| adverse respiratory events  | 128 per 1,000  | **207 per 1,000**(147 to 292)  | **RR 1.59**(1.15 to 2.20)  | 1267(13 RCTs)  | ⨁⨁◯◯LOW a |  |
| emergence agitation  | 272 per 1,000  | **285 per 1,000**(228 to 353)  | **RR 1.05**(0.84 to 1.30)  | 626(5 RCTs)  | ⨁⨁◯◯LOW a |  |
| PONV  | 210 per 1,000  | **191 per 1,000**(158 to 233)  | **RR 0.95**(0.71 to 1.26)  | 989(9 RCTs)  | ⨁⨁◯◯LOW a |  |
| time to eye open  | -  | WMD **3.32 lower**(4.02 lower to 2.61 lower)  | -  | 1070(11 RCTs)  | ⨁◯◯◯VERY LOW a,b |  |
| time to discharge from operation room | -  | WMD **0.45 lower**(5.89 lower to 4.99 higher)  | -  | 1055(10 RCTs)  | ⨁◯◯◯VERY LOW a,b |  |
| \***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI:** Confidence interval; **RR:** Risk ratio; **WMD:** Weighted mean difference  |
| **GRADE Working Group grades of evidence****High certainty:** We are very confident that the true effect lies close to that of the estimate of the effect**Moderate certainty:** We are moderately confident in the effect estimate: The true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different**Low certainty:** Our confidence in the effect estimate is limited: The true effect may be substantially different from the estimate of the effect**Very low certainty:** We have very little confidence in the effect estimate: The true effect is likely to be substantially different from the estimate of effect  |

**Explanations**

a. Most studies have low or unclear overall RoB, but more than 25%(4 of 13) studies are with high overall risk of RoB.

b. The I square is more than 50%.