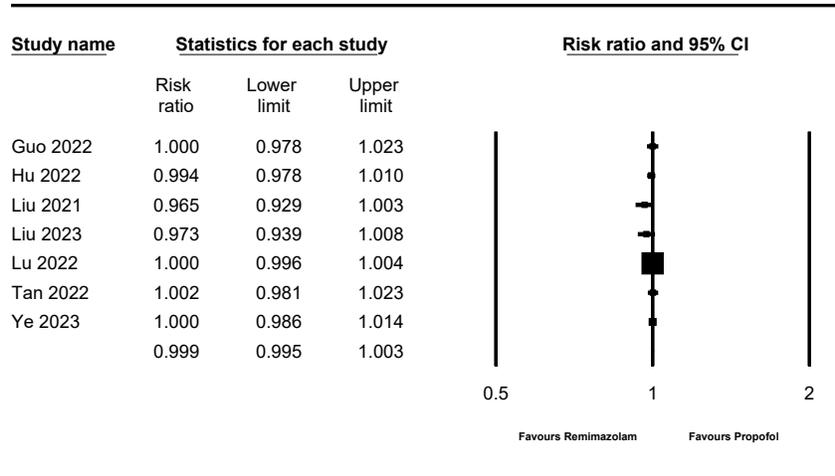
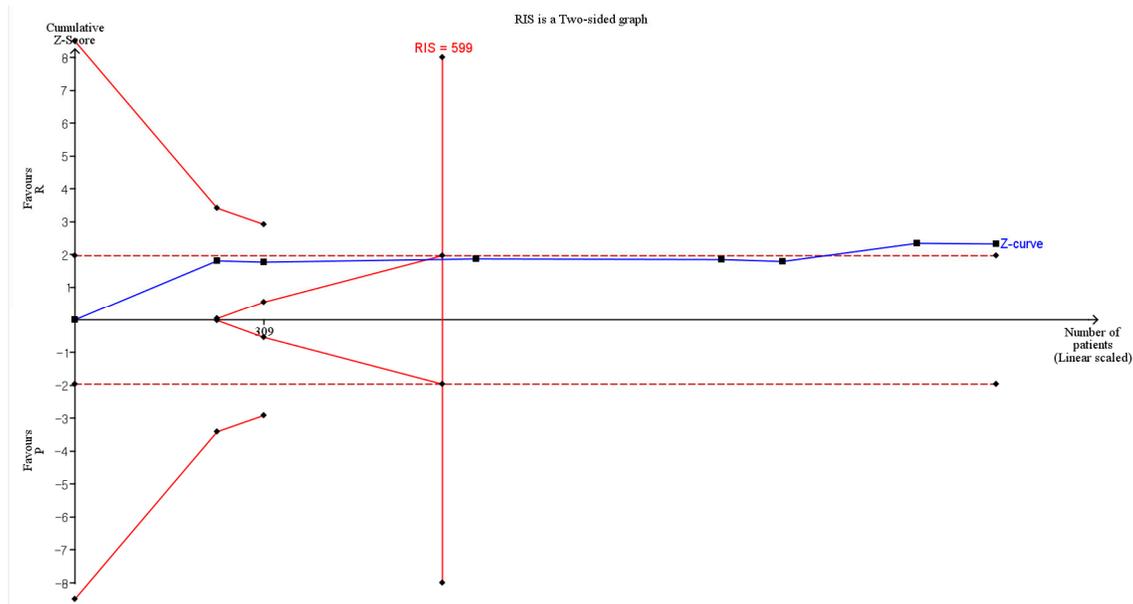


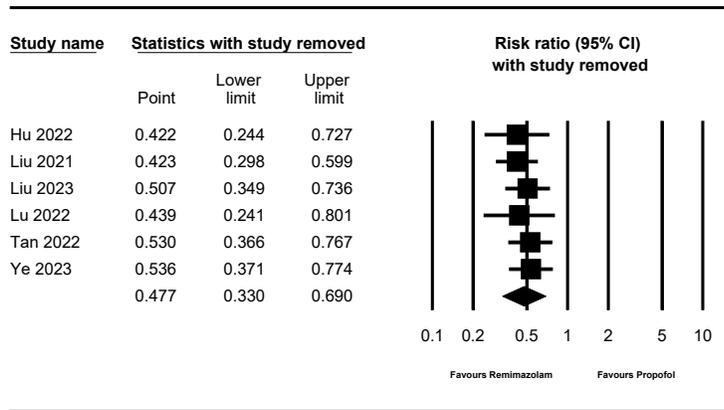
Supplementary Figure S1. Forest plot for studies comparing the effect of remimazolam to that of propofol on the sedation success rate. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



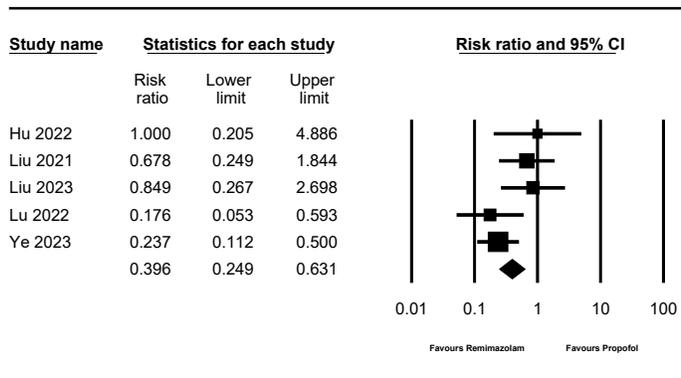
Supplementary Figure S2. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the sedation success rate. Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



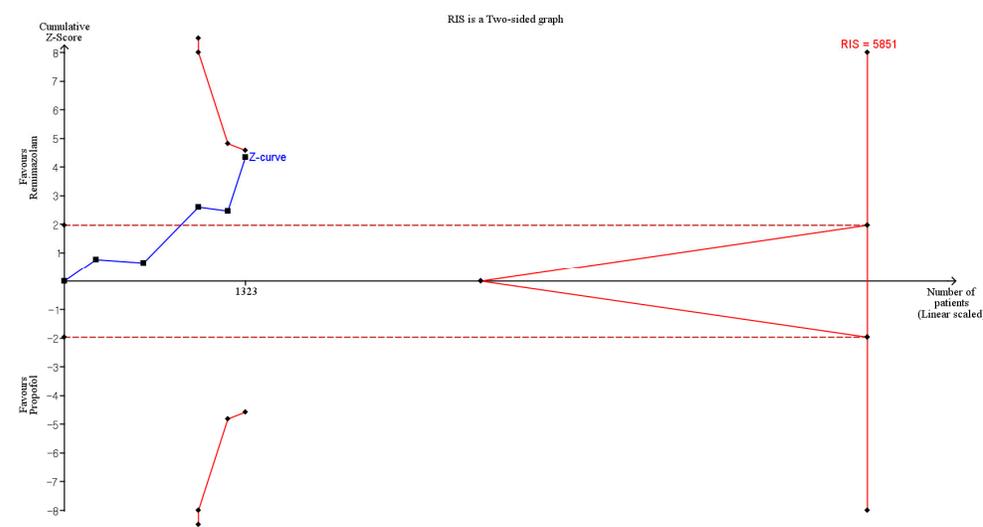
Supplementary Figure S3. Sensitivity analysis excluding one study at a time for the incidence of hypotension. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



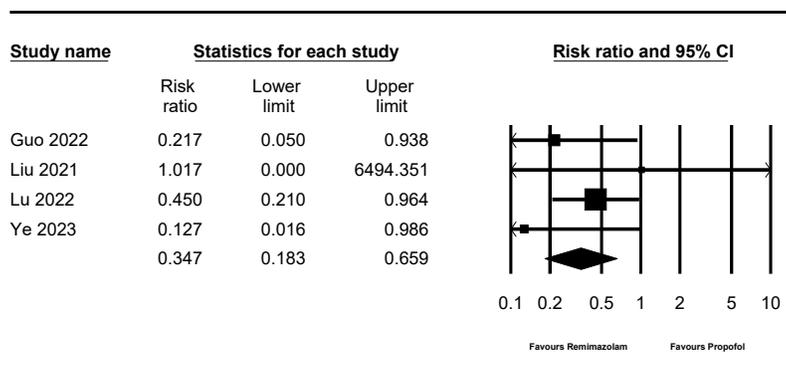
Supplementary Figure S4. Forest plot for studies comparing the effect of remimazolam to that of propofol on the incidence of bradycardia. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



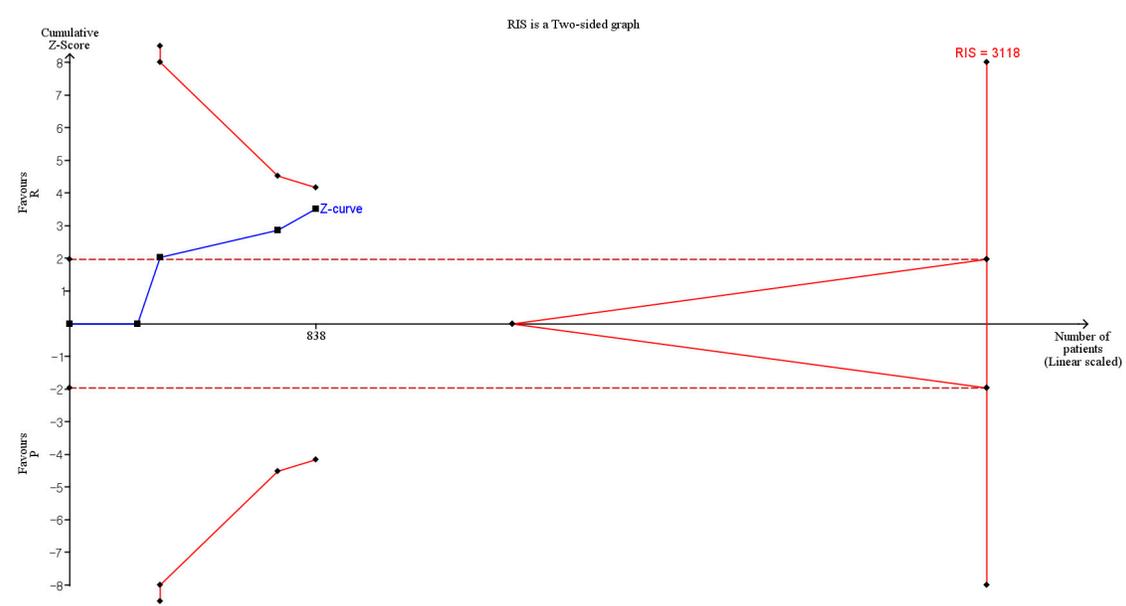
Supplementary Figure S5. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the incidence of bradycardia. Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



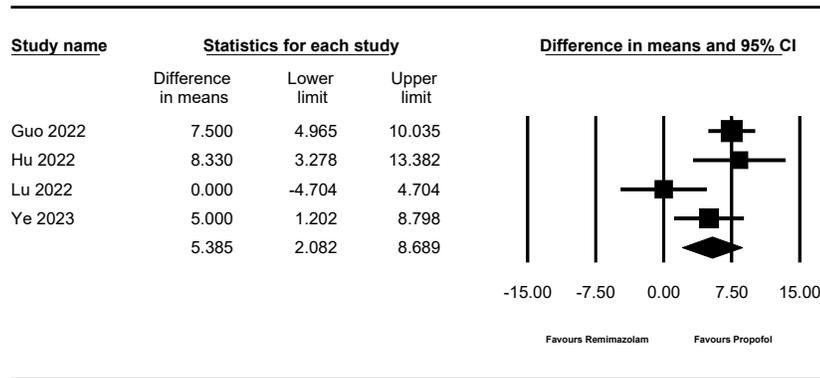
Supplementary Figure S6. Forest plot for studies comparing the effect of remimazolam to that of propofol on the incidence of respiratory depression. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



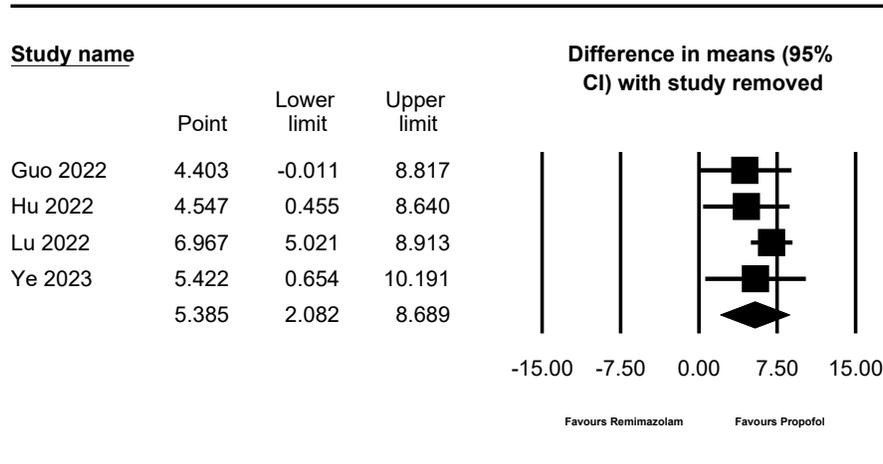
Supplementary Figure S7. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the respiratory depression. Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



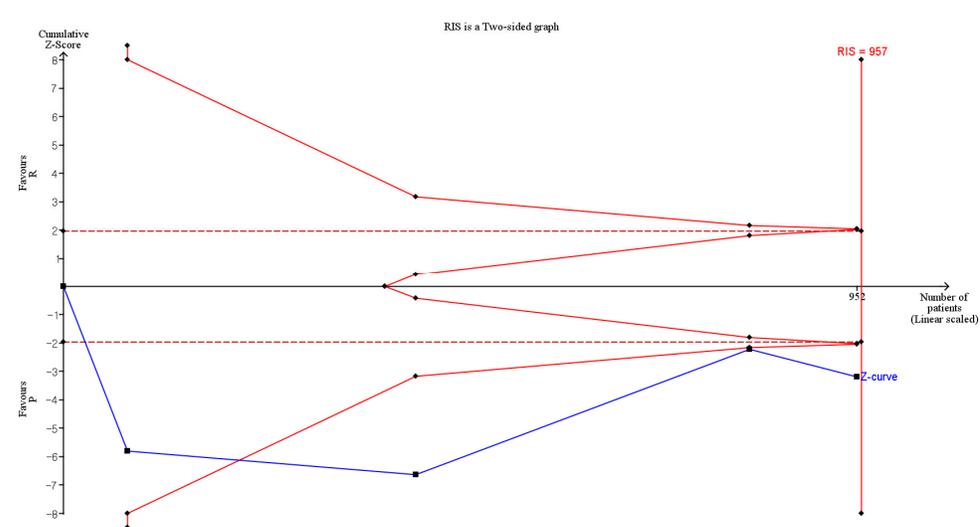
Supplementary Figure S8. Forest plot for studies comparing the effect of remimazolam to that of propofol on time to loss of consciousness. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



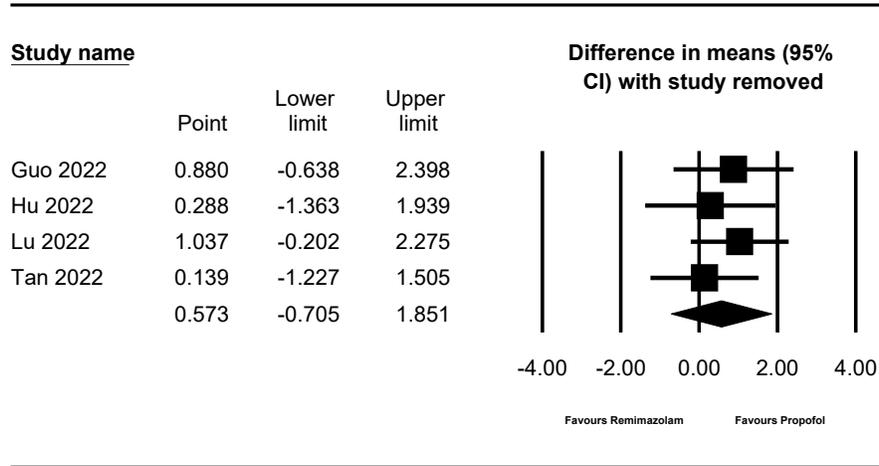
Supplementary Figure S9. Sensitivity analysis excluding one study at a time for time to loss of consciousness. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



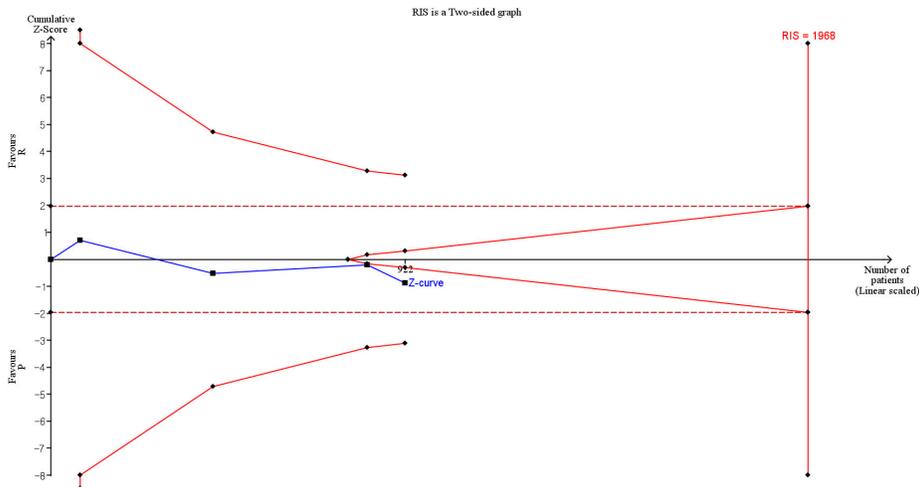
Supplementary Figure S10. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the time to loss of consciousness. Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



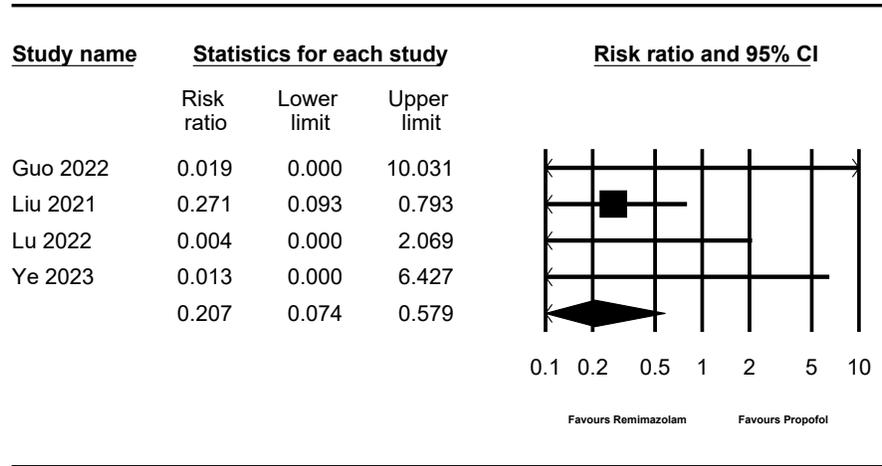
Supplementary Figure S11. **Sensitivity analysis excluding one study at a time for Recovery time.** The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



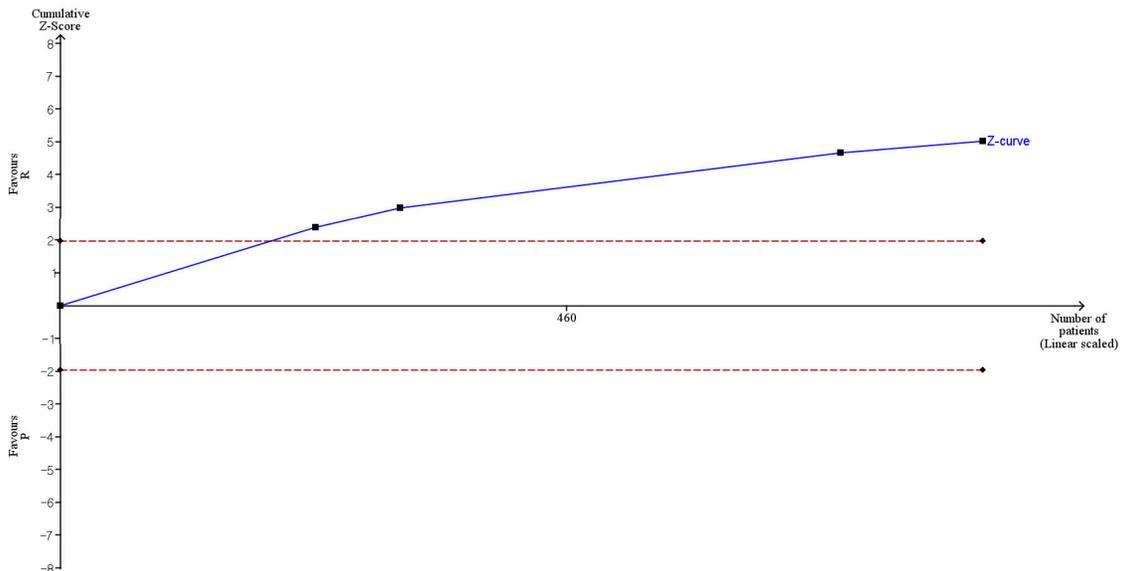
Supplementary Figure S12. **The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the recovery time.** Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



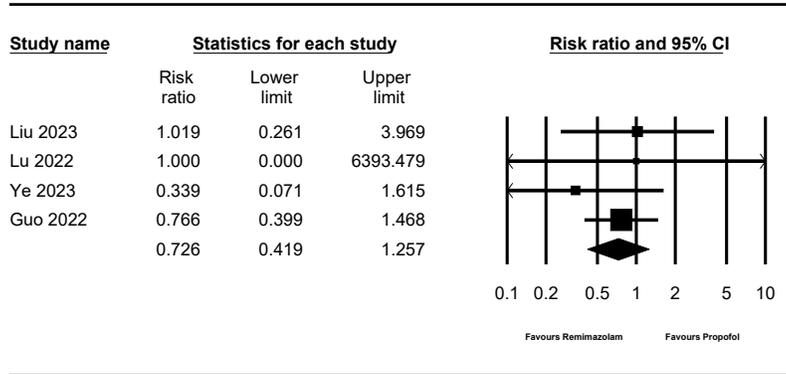
Supplementary Figure S13. Forest plot for studies comparing the effect of remimazolam to that of propofol on injection pain. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



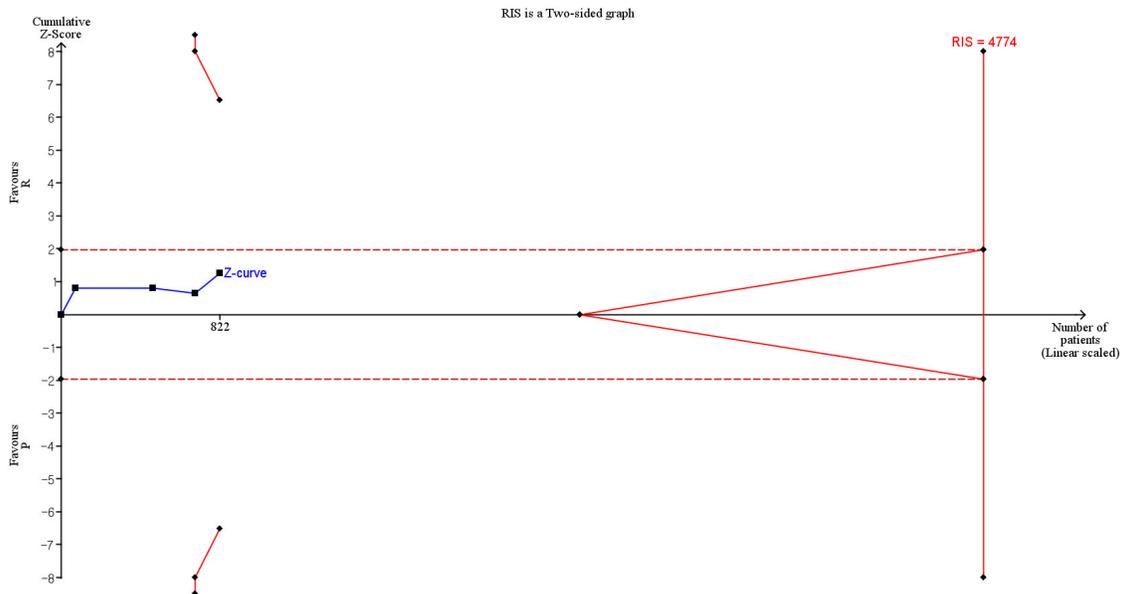
Supplementary Figure S14. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on injection pain. Horizontal line represents the conventional boundaries for statistical significance. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



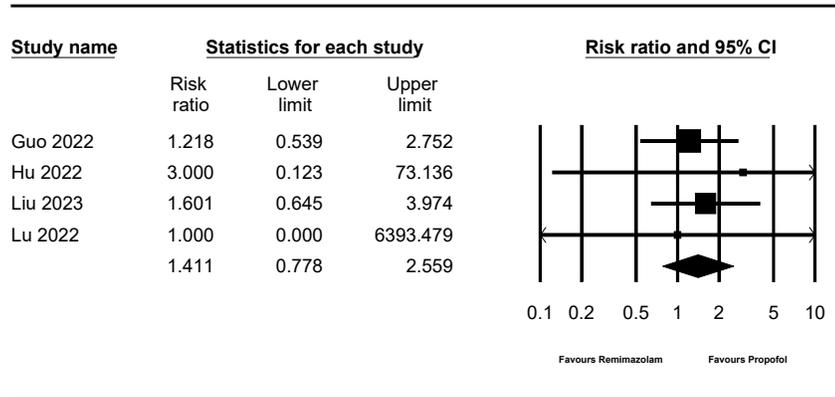
Supplementary Figure S15. Forest plot for studies comparing the effect of remimazolam to that of propofol on the incidence of dizziness/headache. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



Supplementary Figure S16. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the incidence of dizziness/headache. Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.



Supplementary Figure S17. Forest plot for studies comparing the effect of remimazolam to that of propofol on the incidence of PONV. The figure depicts individual trials as filled squares with relative sample size and the 95% confidence interval (CI) of the difference as a solid line. The diamond shape indicates the pooled estimate and uncertainty for the combined effect.



Supplementary Figure S18. The trial sequential analysis for studies comparing the effect of remimazolam to that of propofol on the incidence of PONV. Uppermost and lowermost curves represent trial sequential monitoring boundary lines for benefit and harm respectively. Horizontal line represents the conventional boundaries for statistical significance. Triangular lines on the right side reflects the futility boundaries. The blue solid line represents the cumulative z-curve. The number on the x-axis indicates required information size.

