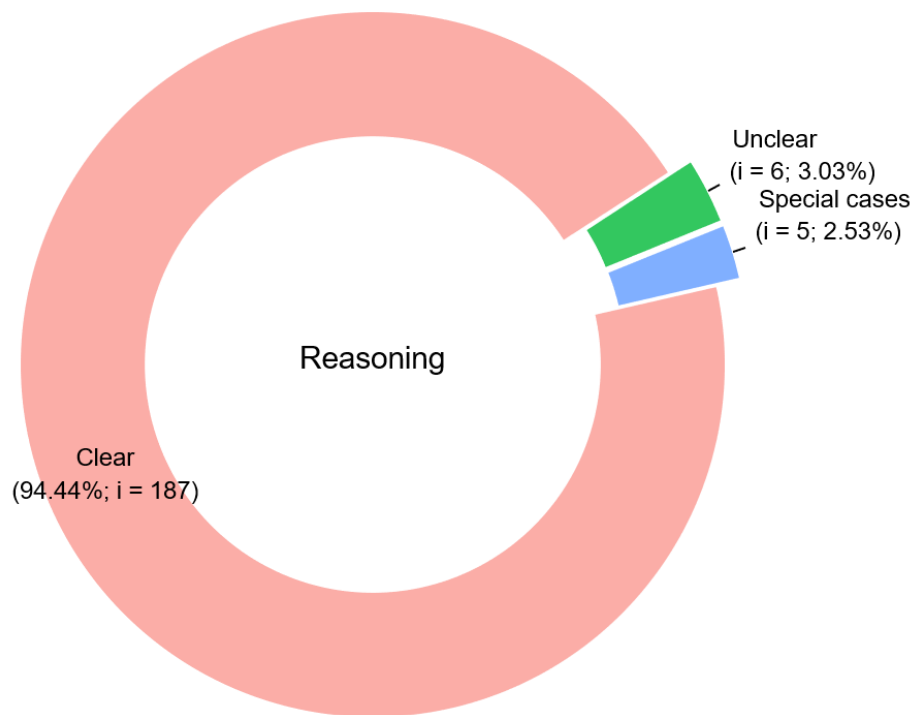
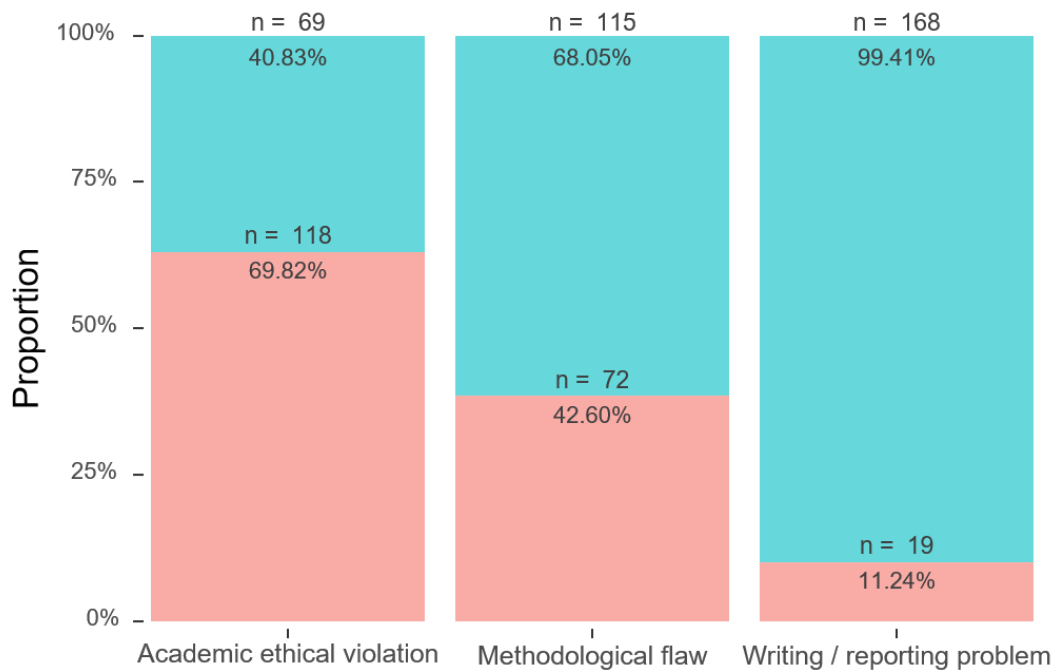


Additional file 5 | Doughnut plot of clarity of reasons for retractions of meta-analyses



Appendix 6 | Plot of Cochran Q test for three categories of retraction reason



Reasoning (count from 187 retraction notes)

Method vs Writing: $Z = 6.47$, $P\text{-value} < 0.001$
 Method vs Ethic: $Z = -3.51$, $P\text{-value} < 0.01$
 Writing vs Ethic: $Z = -8.53$, $P\text{-value} < 0.001$

