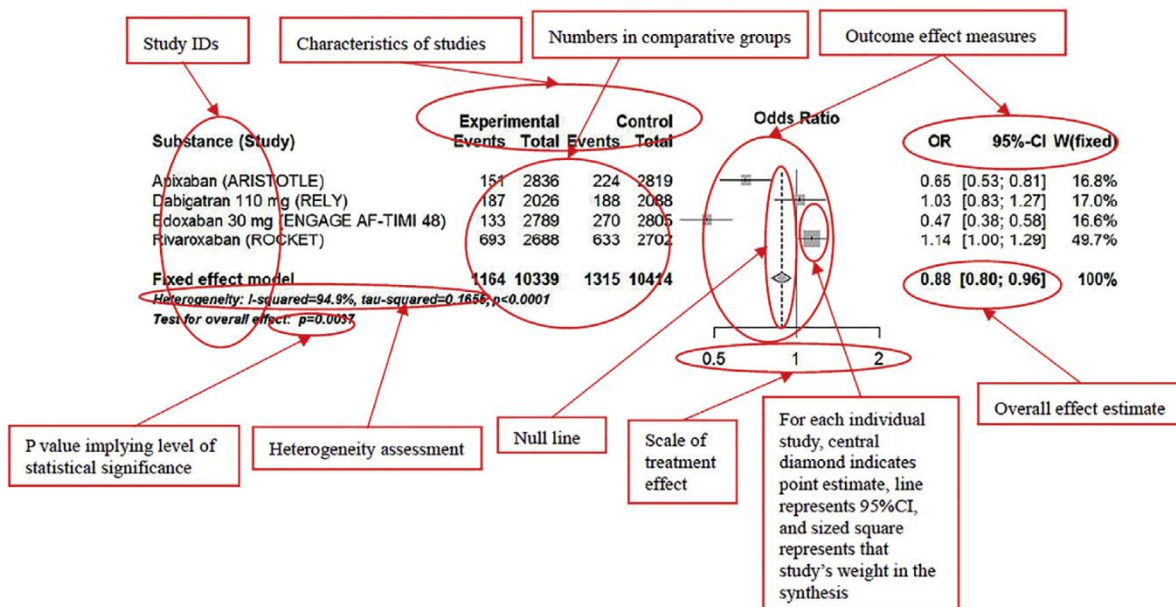


Supplemental File 4: Presentation of forest plots

Forest plots display statistical results from individual studies and their meta-analyses. The phrase “forest plot” originated from the idea that the typical plot appears as a forest of lines.¹ It is important for readers (and reviewers) of systematic reviews to understand what has been done in order to interpret these statistics and graphs. This requires justifications for the statistical decisions involved (eg, choice of effect measure and statistical models used) in the methods section of a systematic review. It is equally important that key information is presented using standard formatting and clear labeling (Figure SF4-1²).

In a typical forest plot, tabular information about the individual studies (identity, numbers or rates of comparative groups, weighting) is included, as well as details regarding their pooled analysis (overall effect estimates with confidence intervals, statistical inconsistency and heterogeneity assessments, levels of statistical significance). The results of component studies are displayed as squares centered on the point estimate of the result of each study; a horizontal line runs through the square to show its confidence interval. At the bottom, the summary estimate and its confidence interval are represented as a diamond; its center represents the pooled point estimate, and the horizontal tips its confidence interval.¹ This provides a simple visual representation of the amount of variation between the results of the studies and of the estimate of the overall result of all the studies combined.

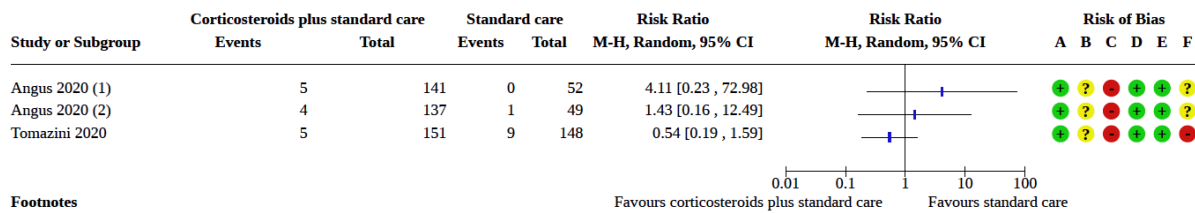


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Figure SF4-1: Key information and labels to include in a forest plot

The addition of a vertical line on the forest plot representing a minimally important or detectable clinical difference may sometimes aid interpretation and establish if the demonstrable effect represents a meaningful difference for patients.^{3,4} It is also helpful to display the details of RoB assessments for each study alongside a forest plot.⁵ Cochrane suggests a standard visual aid for presentation of Cochrane RoB2 and ROBINS-I results for individual studies⁶ (Figure SF4-2⁷).

Analysis 1.5. Comparison 1: Systemic corticosteroids plus standard care versus standard care (plus/minus placebo), Outcome 5: Serious adverse events



Footnotes

- (1) Angus 2020 intervention arm: shock-dependent hydrocortisone
- (2) Angus 2020 intervention arm: fixed-dose hydrocortisone

Risk of bias legend

- (A) Bias arising from the randomization process
- (B) Bias due to deviations from intended interventions: Serious adverse events
- (C) Bias due to missing outcome data: Serious adverse events
- (D) Bias in measurement of the outcome: Serious adverse events
- (E) Bias in selection of the reported result: Serious adverse events
- (F) Overall bias: Serious adverse events

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Figure SF4-2: Forest plot with presentation of RoB assessments results

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