

Supplementary Material

Table 1s. Search strategy

Figure 1s. Baujat plots for mortality. Top, controlled studies; bottom, retrospective studies. On the x-axis the contribution to the overall heterogeneity is placed; on the y-axis the contribution on the overall effect size is placed.

Figure 2s. Influence plot for mortality. Top, controlled studies; bottom, retrospective studies.

Figure 3s. Forest plot for RCTs/PSMS on all-cause short-term mortality for the subpopulations based on indication of DOACs reversal (ICH vs. non-ICH)

Forest 4s. Forest plot for retrospective studies on all-cause short-term mortality for subpopulations based on indication for DOACs reversal (ICH vs. non-ICH)

Figure 5s. Baujat plots for thromboembolic events. Top, controlled studies; bottom, retrospective studies. On the x-axis the contribution to the overall heterogeneity is placed; on the y-axis the contribution on the overall effect size is placed.

Figure 6s. Influence plot for thromboembolic events. Top, controlled studies; bottom, retrospective studies.

Figure 7s. Forest plots for RCTs/PSMS in subpopulations that are identified by indication of DOACs reversal (ICH vs. non-ICH)

Figure 8s. Forest plot for retrospective studies on thromboembolic events among subpopulations based on the indication for DOACs reversal (ICH vs. non-ICH)

Table 2s. Mortality rate in the included studies. RCT: Randomized Controlled Trial; PSM: Propensity Score Matching.

Library	Query	Records
PubMed	("andexanet" [Mesh] OR "andexanet" [tiab] OR "DOACs-reversal" [tiab] OR "anticoagulation reversal" [tiab]) AND ("PCC4" [Mesh] OR "PCC4"[tiab] OR "prothrombin complex"[tiab] OR "Prothrombin complex concentrate" [Mesh] OR "prothrombin complex concentrate" [tiab]) AND ("outcom*" [tiab] OR "Critical Care Outcomes" [Mesh] OR "critical care outcomes" [tiab] OR "Patient Outcome Assessment" [Mesh] OR "patient outcome assessment" [tiab] OR "Treatment Outcome" [Mesh] OR "treatment outcome" [tiab] OR "Mortality" [Mesh] OR "mortality"[tiab] OR "Hospital Mortality" [Mesh] OR "hospital mortality" [tiab])	138
Scopus	(INDEXTERMS("andexanet") OR TITLE- ABS("andexanet") OR TITLE-ABS ("DOACs- reversal") OR TITLE-ABS("anticoagulation reversal")) AND (INDEXTERMS(PCC4) OR TITLE-ABS(PCC4) OR TITLE-ABS("DOACs")) AND (TITLE-ABS(outcom*) OR INDEXTERMS("Outcomes") OR TITLE- ABS("outcomes") OR INDEXTERMS("Patient Outcome Assessment") OR TITLE-ABS("patient outcome assessment") OR INDEXTERMS("Treatment Outcome") OR TITLE-	546

	ABS("treatment outcome") OR INDEXTERMS(Mortality) OR TITLE- ABS(mortality) OR INDEXTERMS("Hospital Mortality") OR TITLE-ABS("hospital mortality"))	
CINHAL	((MH "andexanet") OR (TI "andexanet"; OR AB "andexanet") OR (TI "DOACs-reversal" OR AB "DOACs-reversal") OR (TI "anticoagulation reversal" OR AB "anticoagulation reversal") AND ((MH "PCC4") OR (TI "PCC4"; OR AB "PCC4") OR (TI "prothrombin complex" OR AB "prothrombin complex") OR (TI "Prothrombin complex concentrate" OR AB "Prothrombin complex concentrate") AND ((TI outcom* OR AB outcom*) OR (MH " Outcomes" OR (TI "outcomes" OR AB "outcomes") OR (MH "Patient Outcome Assessment+") OR (TI "patient outcome assessment"; OR AB "patient outcome assessment") OR (MH "Treatment Outcome+") OR (TI "treatment outcome" OR AB "treatment outcome") OR (MH Mortality+) OR (TI mortality OR AB mortality) OR (MH "Hospital Mortality+") OR (TI "hospital mortality" OR AB "hospital mortality"))	50

Table 1s.

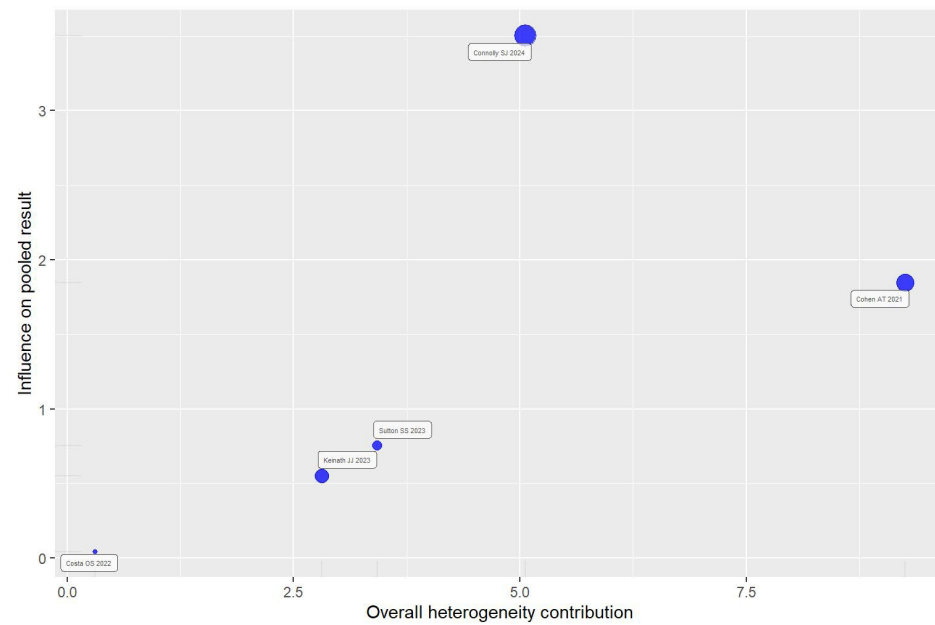
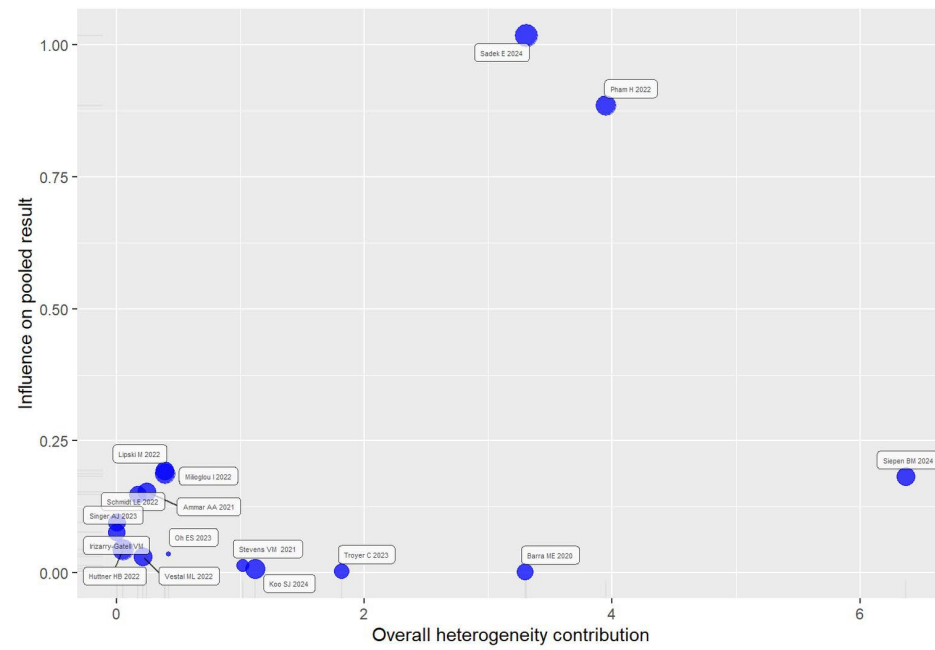


Figure 1s.



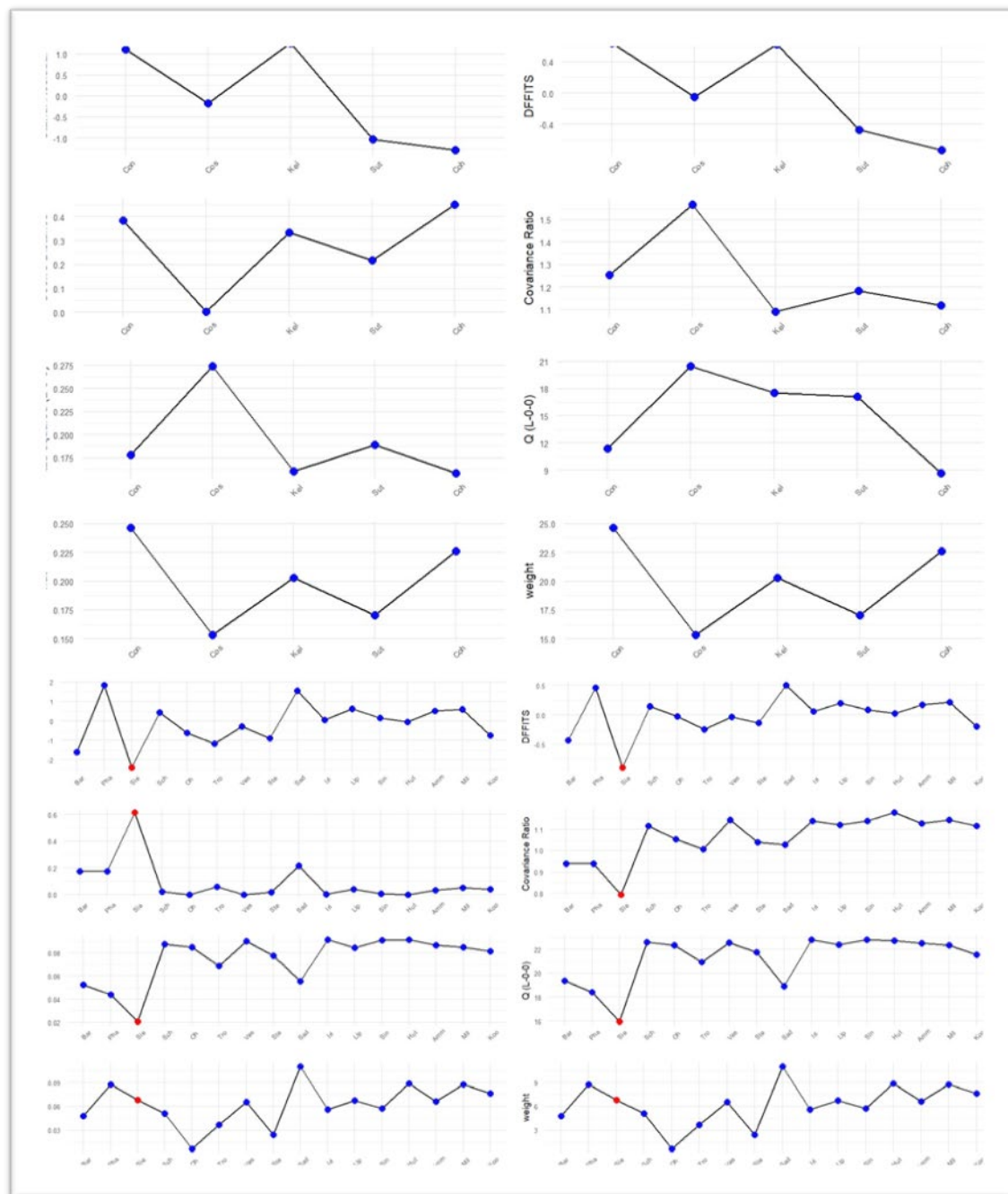


Figure 2s.

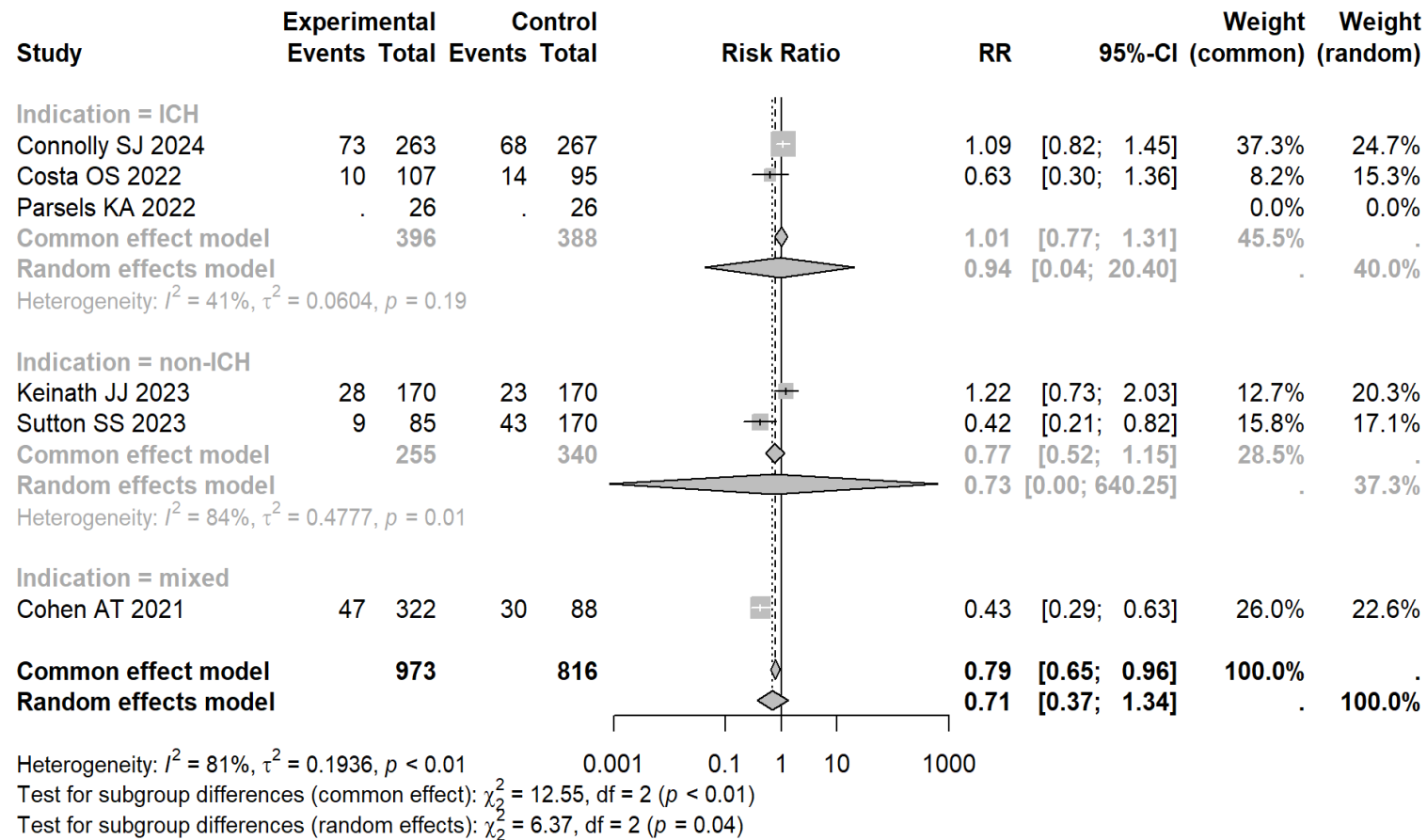


Figure 3s.

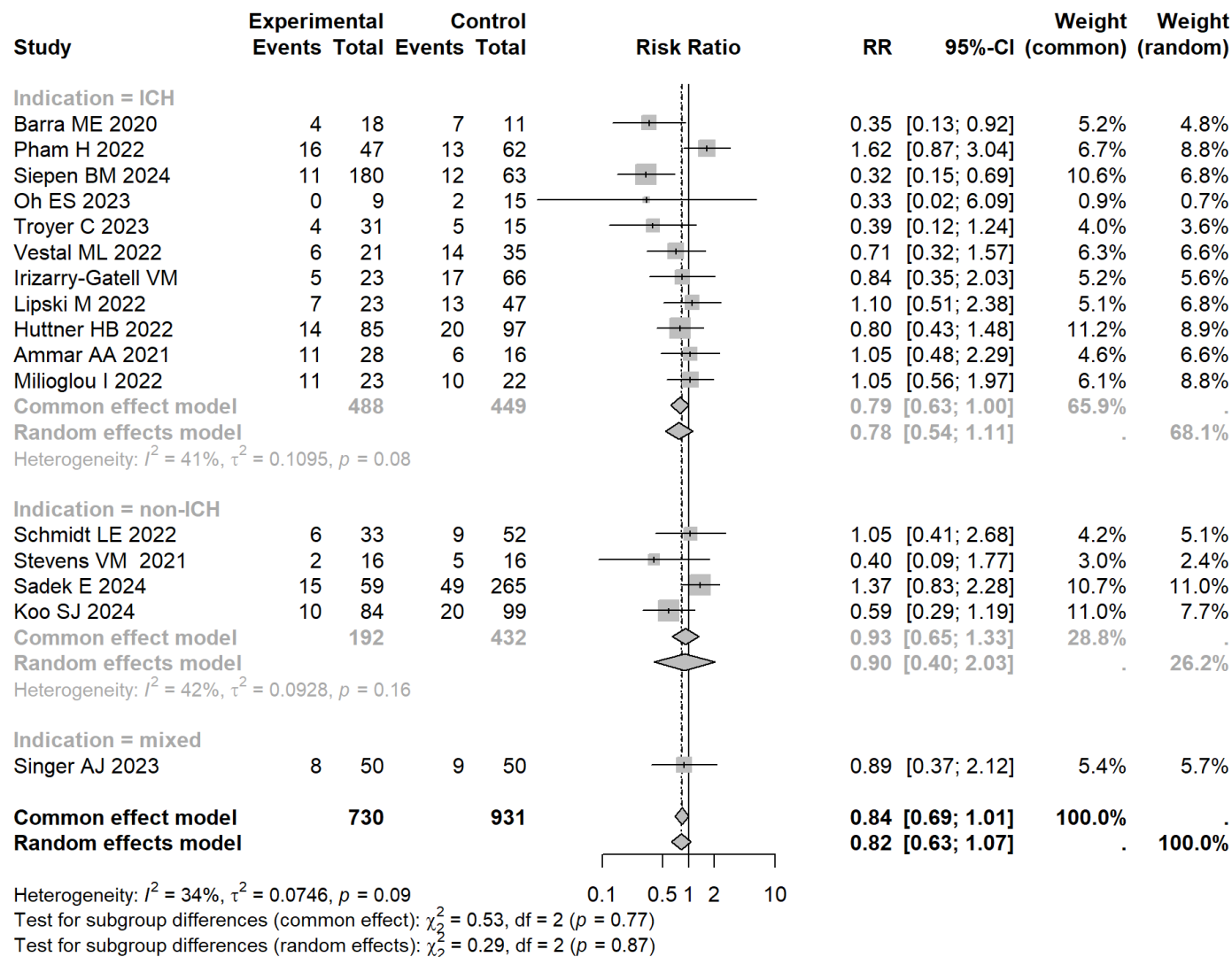
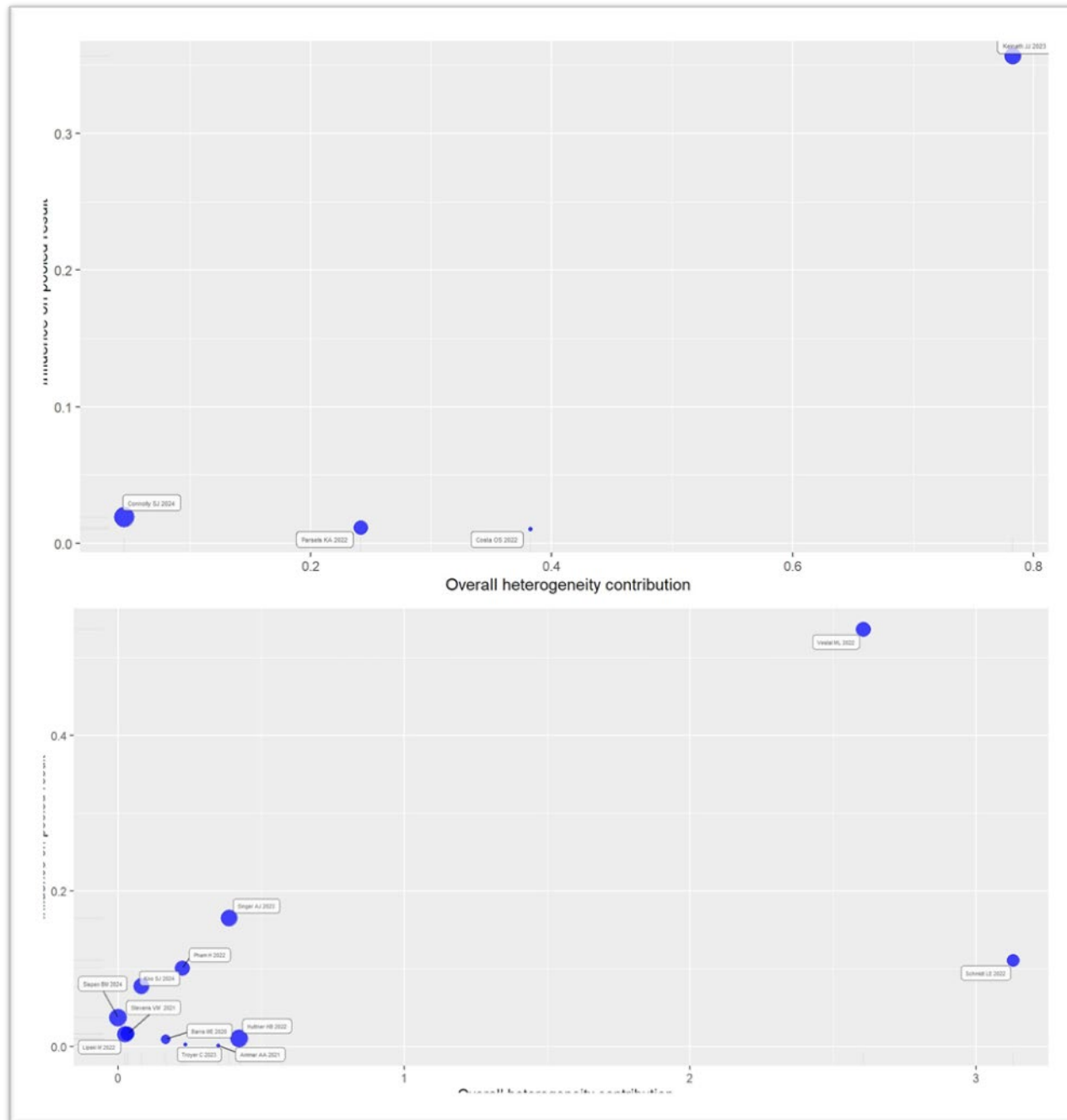


Figure 4s.

Figure 5s



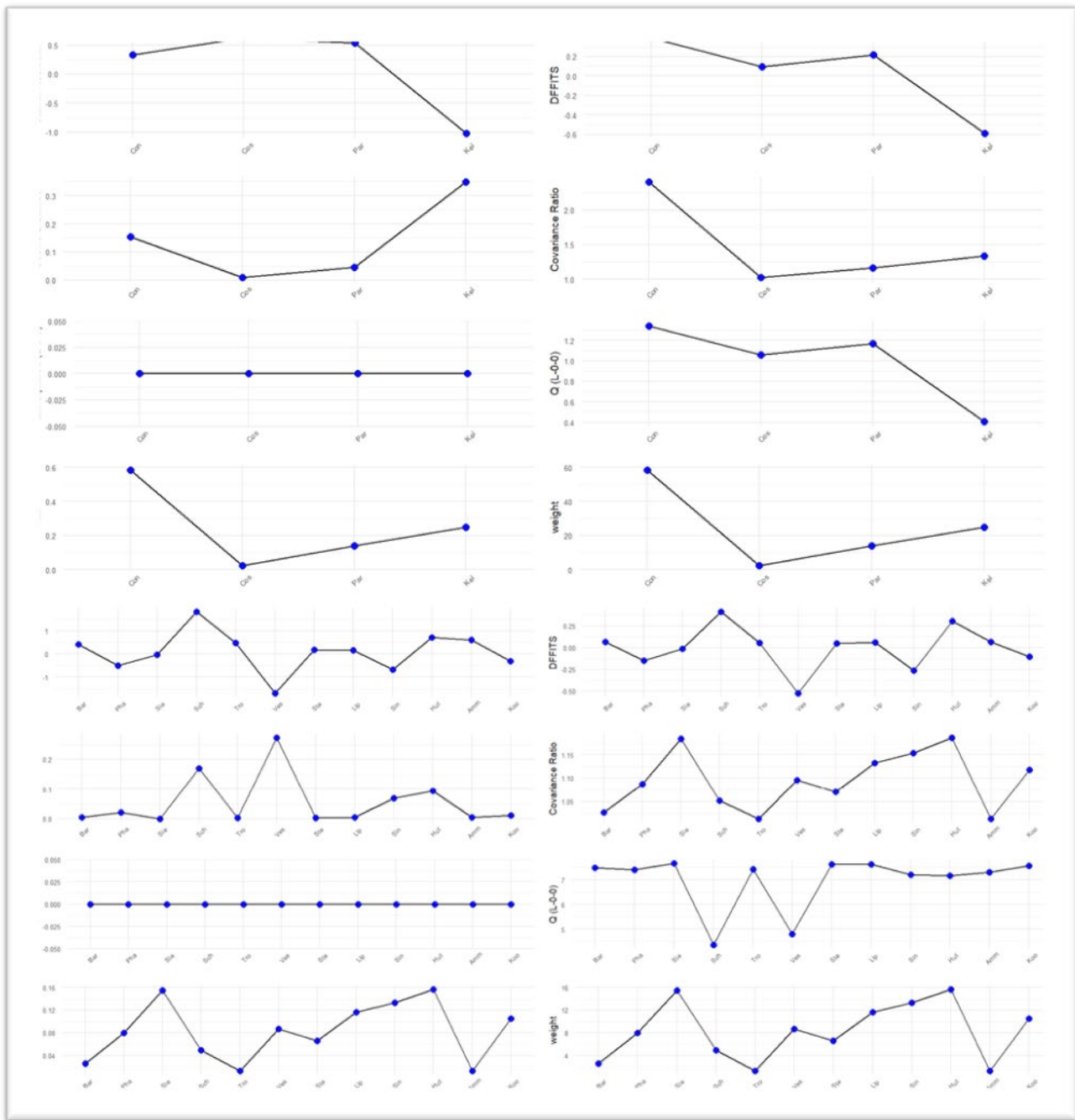


Figure 6s.

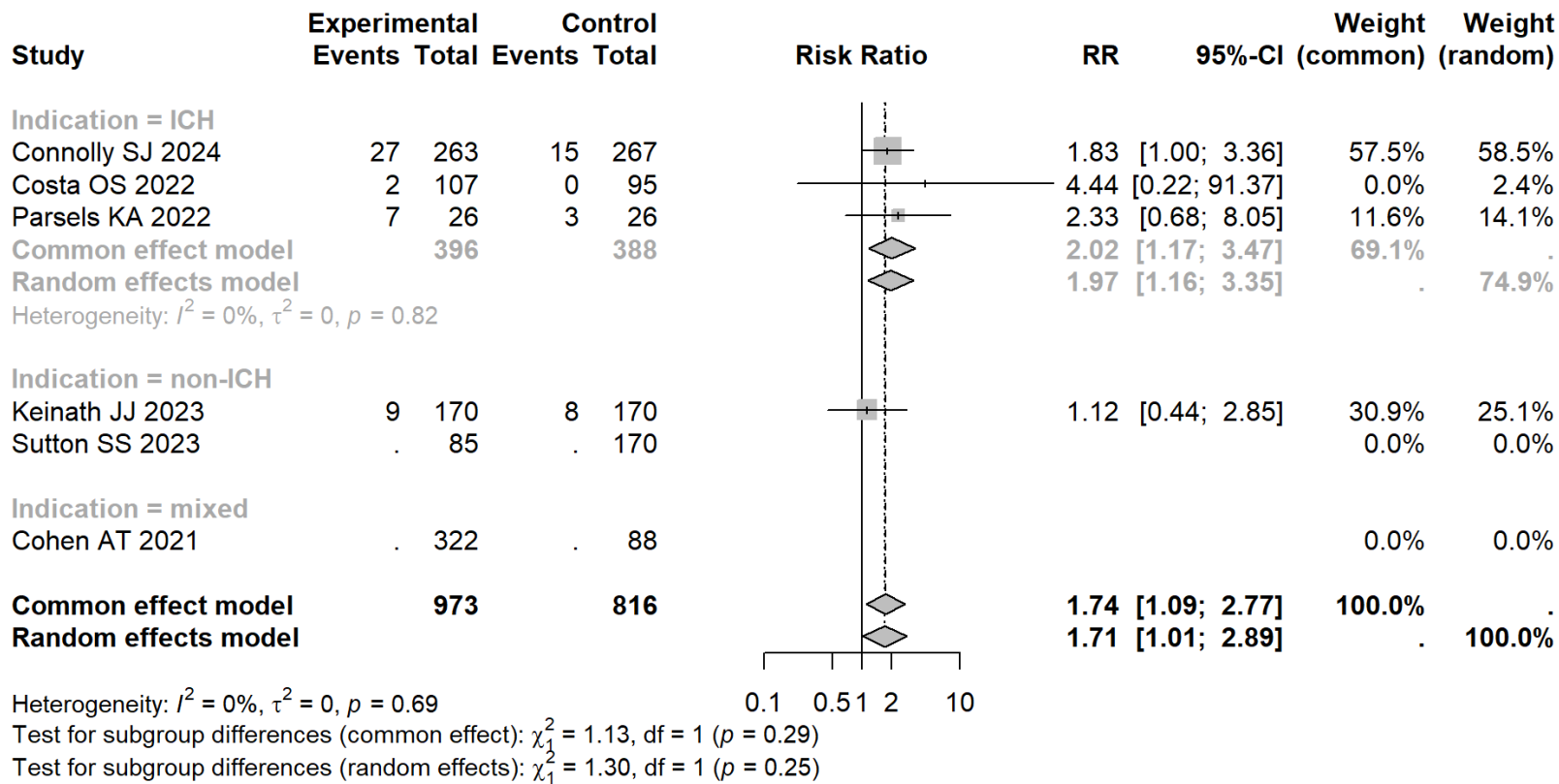


Figure 7S

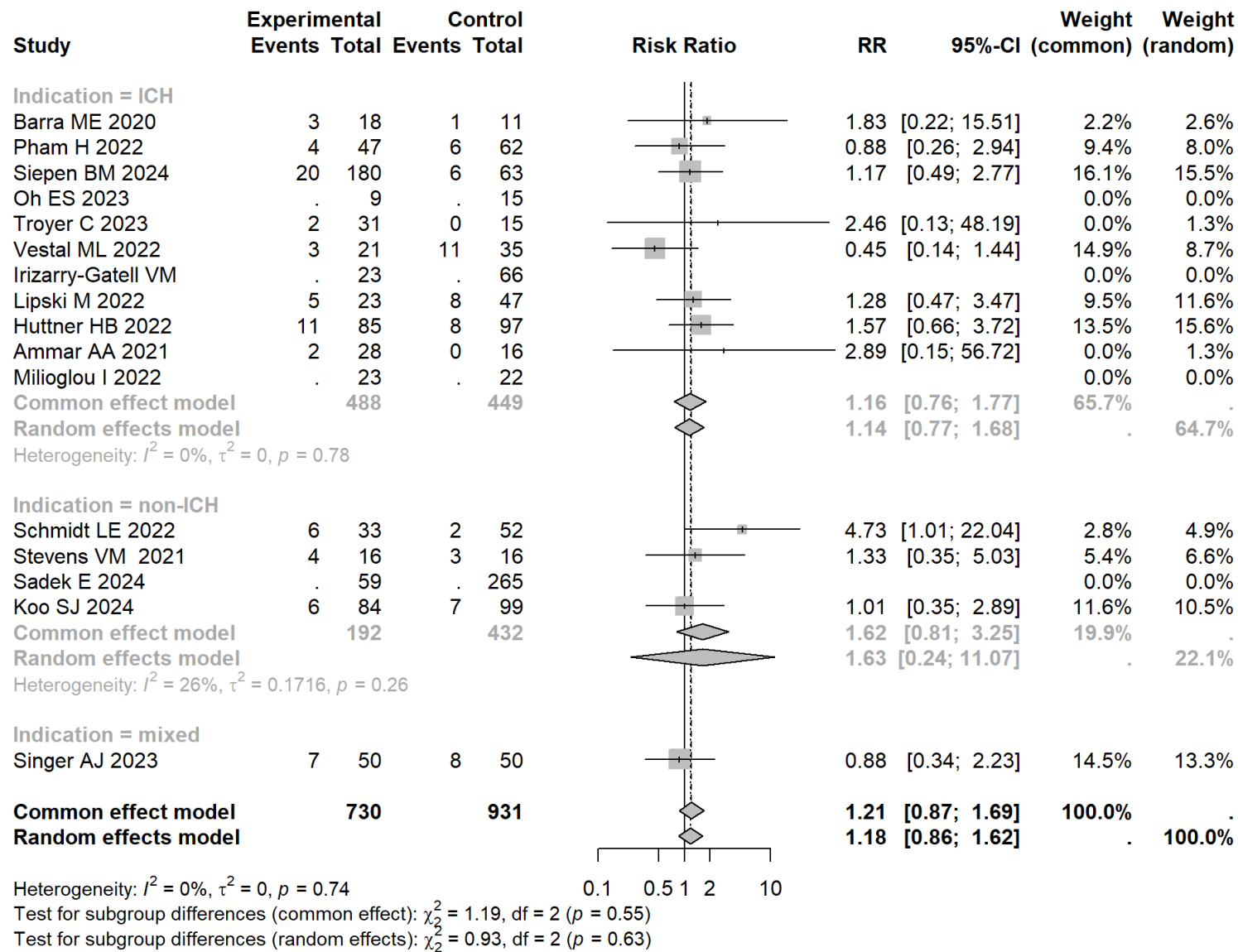


Figure 8s.

Table 2s.

Study	Design	Mortality rate
ICH		
Connolly SJ 2024	RCT	0.23
Costa OS 2022	PSM	0.12
Barra ME 2020	Retrospective	0.37
Pham H 2022	Retrospective	0.27
Siepen BM 2024	Retrospective	0.09
Oh ES 2023	Retrospective	0.08
Troyer C 2023	Retrospective	0.20
Vestal ML 2022	Retrospective	0.36
Irizarry-Gatell VM	Retrospective	0.25
Lipski M 2022	Retrospective	0.29
Huttner HB 2022	Retrospective	0.19
Ammar AA 2021	Retrospective	0.39
Milioglou I 2022	Retrospective	0.47
Non-ICH		
Keinath JJ 2023	PSM	0.15
Sutton SS 2023	PSM	0.20
Schmidt LE 2022	Retrospective	0.18
Stevens VM 2021	Retrospective	0.22
Sadek E 2024	Retrospective	0.20
Koo SJ 2024	Retrospective	0.16
Mixed population		
Cohen AT 2021	PSM	0.19
Singer AJ 2023	Retrospective	0.17