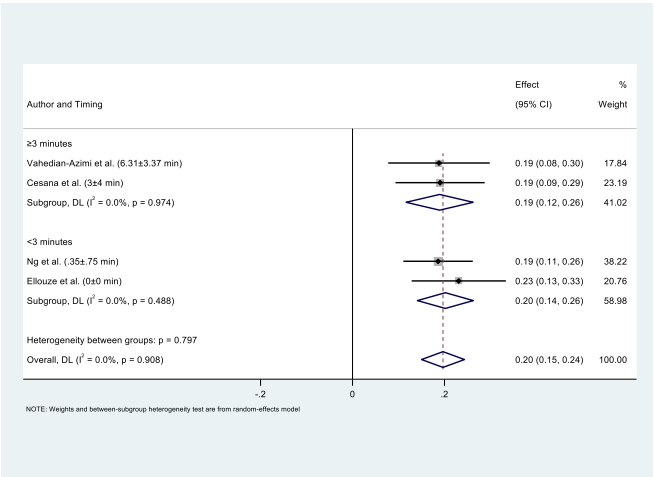


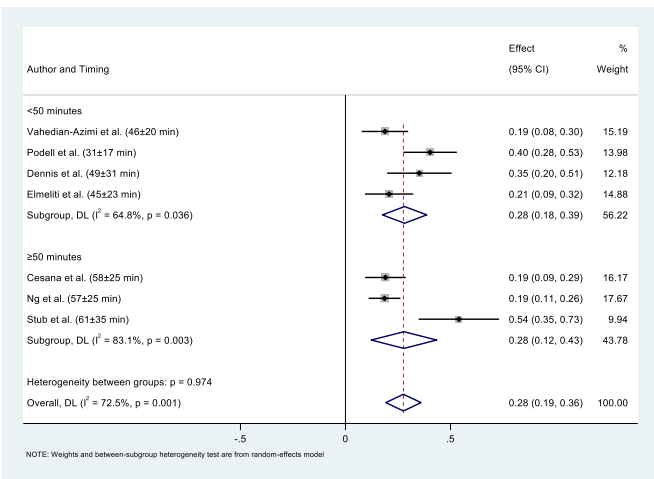
Supplementary Material

Supplementary Figure 1 – Forest Plots of OHCA & IHCA (Both) Groups

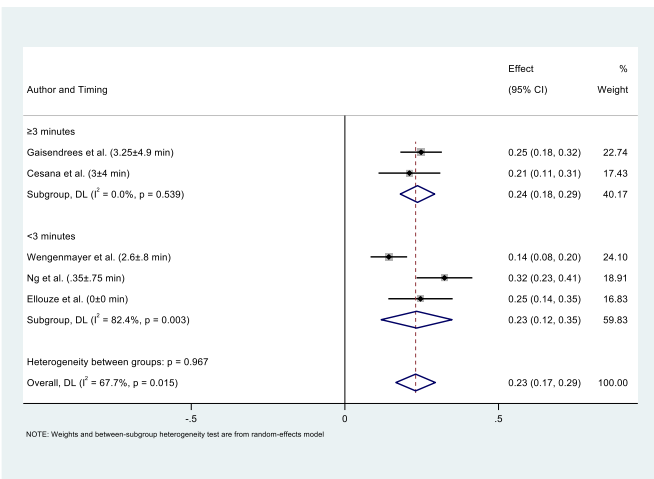
a) Forrest Plot of correlation between NFD with Neurological Outcomes



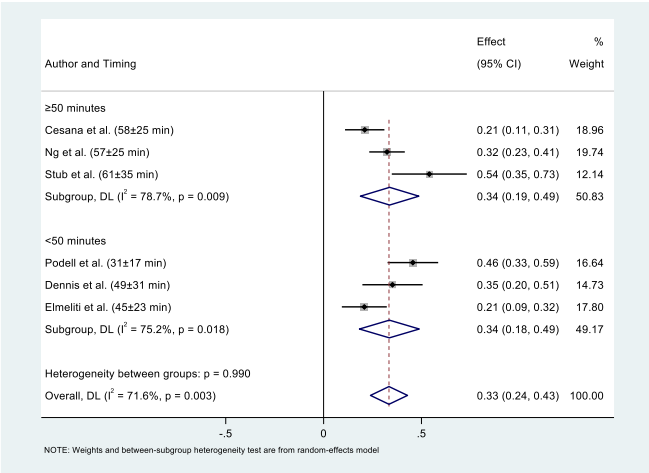
b) Forrest Plot of correlation between CA to ECMO Duration with Neurological Outcomes



c) Forrest Plot of correlation between NFD with Survival at Discharge

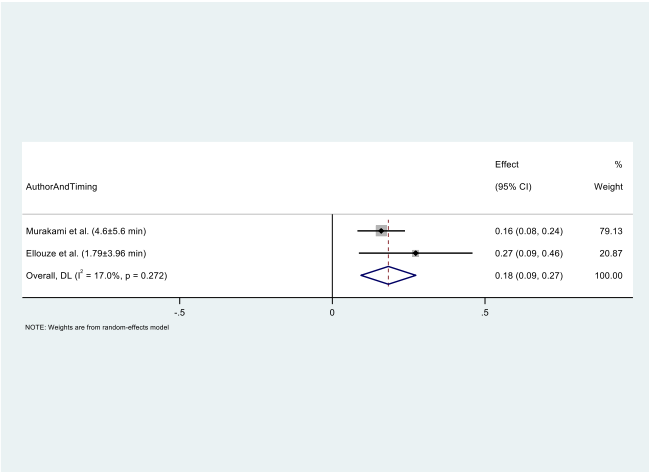


d) Forrest Plot of correlation between CA to ECMO Duration with Survival at Discharge

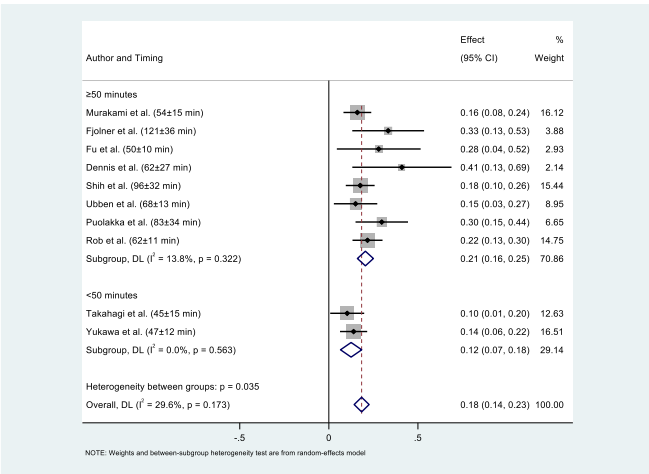


Supplementary Figure 2 – Forest Plots of OHCA Only Groups

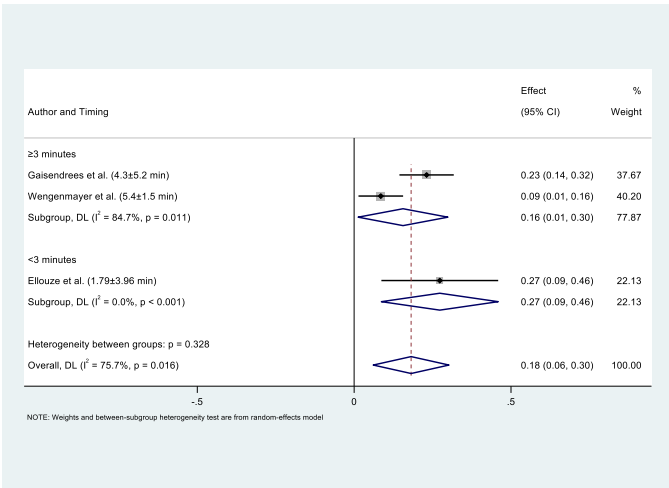
a) Forrest Plot of correlation between NFD with Neurological Outcomes



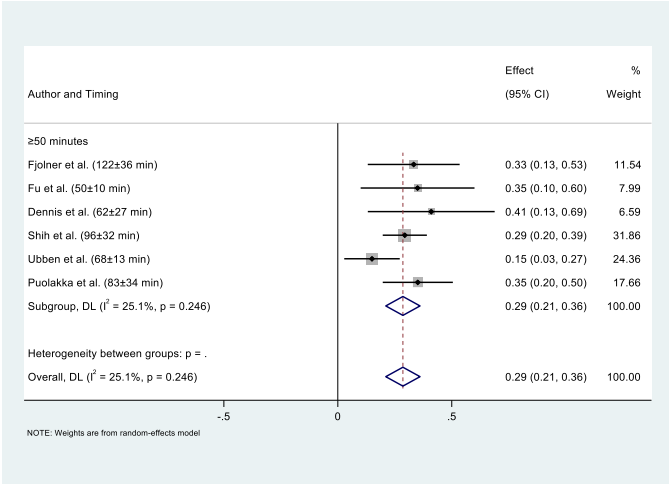
b) Forrest Plot of correlation between CA to ECMO Duration with Neurological Outcomes



c) Forrest Plot of correlation between NFD with Survival at Discharge

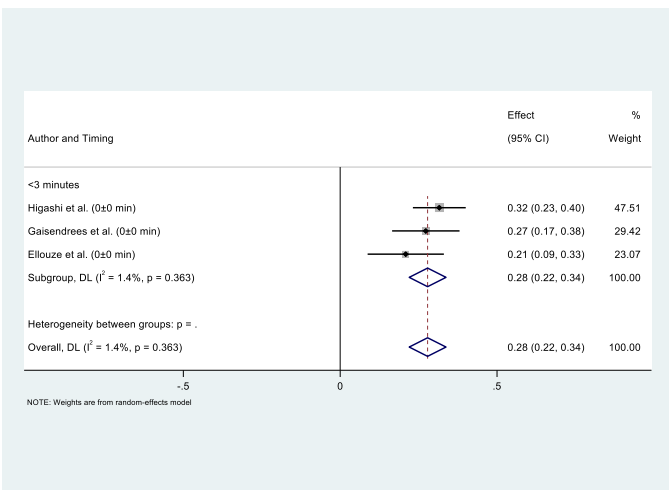


d) Forrest Plot of correlation between CA to ECMO Duration with Survival at Discharge

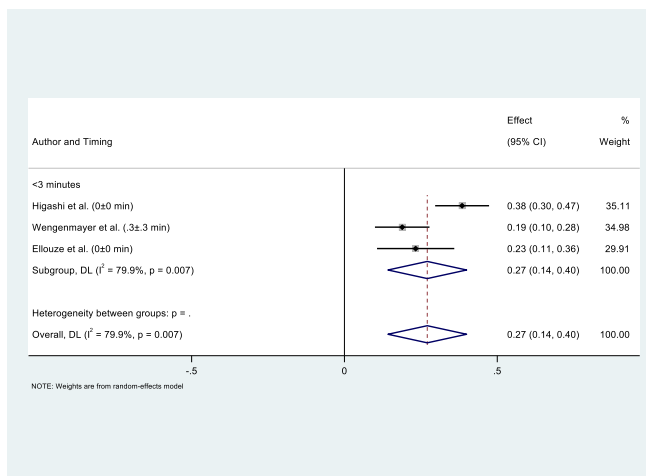


Supplementary Figure 3 – Forest Plots of IHCA Only Groups

a) Forrest Plot of correlation between NFD with Neurological Outcomes



b) Forrest Plot of correlation between NFD with Survival at Discharge



Supplementary Figure 4 – Risk of Bias and Quality Assessments

a) Risk of bias for non-randomized studies

		Risk of bias domains							Overall
		D1	D2	D3	D4	D5	D6	D7	
Study	Cesana et al., 2017	⊖	⊖	⊕	⊖	⊖	⊕	⊖	⊖
	Dennis et al., 2017	⊖	⊖	⊕	⊖	⊕	⊕	⊖	⊖
	Ellouze et al., 2017	⊖	⊖	⊕	⊖	⊖	⊕	⊖	⊖
	Elmelliti 2023	⊖	⊖	⊕	⊕	⊖	⊕	⊖	⊖
	Fjolner 2016	⊗	⊗	⊕	⊖	⊕	⊕	⊖	⊗
	Fu 2024	⊖	⊕	⊕	⊕	⊖	⊕	⊕	⊖
	Gaisendrees 2024	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊖
	Higashi et al., 2020	⊖	⊖	⊕	⊖	⊖	⊕	⊖	⊖
	Murakami et al., 2020	⊖	⊖	⊕	⊕	⊖	⊕	⊖	⊖
	Ng 2022	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊖
	Otani et al., 2018	⊖	⊖	⊖	⊖	⊖	⊕	⊖	⊗
	Podell et al., 2022	⊖	⊗	⊕	⊖	⊖	⊕	⊖	⊗
	Puolakka 2023	⊖	⊕	⊕	⊕	⊖	⊕	⊕	⊖
	Ryu et al., 2019	⊖	⊖	⊕	⊖	⊖	⊕	⊖	⊖
	Shih 2024	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊖
	Stub 2015 (CHEER)	⊖	⊖	⊕	⊕	⊕	⊕	⊖	⊖
	Takahagi 2022	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊖
	Vahedian-Azimi et al., 2024	⊖	⊖	⊕	⊖	⊖	⊕	⊖	⊖
	Wengenmayer 2017	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊖
	Yu et al., 2019	⊖	⊖	⊕	⊖	⊕	⊕	⊖	⊖
Yukawa 2017	⊖	⊖	⊕	⊕	⊕	⊕	⊕	⊖	

Domains:

- D1: Bias due to confounding.
- D2: Bias due to selection of participants.
- D3: Bias in classification of interventions.
- D4: Bias due to deviations from intended interventions.
- D5: Bias due to missing data.
- D6: Bias in measurement of outcomes.
- D7: Bias in selection of the reported result.

Judgement

- ⊗ Serious
- ⊖ Moderate
- ⊕ Low

b) Risk of bias for non-randomized studies

Study	Risk of bias domains					
	D1	D2	D3	D4	D5	Overall
Rob, 2022 (Prague OHCA trial)						
Ubben, 2023 (INCEPTION-trial)						

Domains:
D1: Bias arising from the randomization process.
D2: Bias due to deviations from intended intervention.
D3: Bias due to missing outcome data.
D4: Bias in measurement of the outcome.
D5: Bias in selection of the reported result.

Judgement
 Some concerns
 Low

