



Supplementary Fig. 1. Illustration of time-averaged rcSO₂ calculation. Time-averaged rcSO₂ values were calculated using the mean rcSO₂ at specific time points (A: <24 hours; B: 24–48 hours; C: 48–72 hours; D: 7 days; E: 14 days; F: 21 days; G: 28 days; H: 56 days; I: 84 days; J: 112 days [if still admitted]) multiplied by the corresponding duration (days). The calculation followed the trapezoidal rule and was divided by the last rcSO₂ measurement (at 84 or 112 days) to represent the overall mean rcSO₂ during the study period. The time-averaged FTOE was calculated using the same method. FTOE, fraction of tissue oxygen extraction; rcSO₂, regional cerebral oxygen saturation.