# Supplementary Figure legends

**Supplementary Figure 1. Flowchart**

Flowchart of patients admitted during the study period and included and excluded for analysis. ICU, Intensive Care Unit; NICE, Dutch National Intensive Care Evaluation registry; ISE, ion-selective electrode.

**Supplemental Figure 2. Association between in-hospital mortality and ∆48h-[Na] in subgroup of patients with intracerebral pathology categorized by first serum sodium measurement at ICU admission**

The adjusted odds ratios for risk of in-hospital mortality using logistic regression. Adjusted for: age, sex, and APACHE-IV predicted mortality ∆48h-[Na]= difference between mean of sodium measurements 24-48 hours after ICU admission and first serum sodium at admission in mmol/L, C.I.: 95% confidence interval. ∆48h-[Na] of -5 to 5 mmol/L was used as reference category.

**Supplemental Figure 3. Association between in-hospital mortality and ∆48h-[Na] in subgroup of patients without intracerebral pathology categorized by first serum sodium measurement at ICU admission**

The adjusted odds ratios for risk of in-hospital mortality using logistic regression. Adjusted for: age, sex, and APACHE-IV predicted mortality . ∆48h-[Na]= difference between mean of sodium measurements 24-48 hours after ICU admission and first serum sodium at admission in mmol/L, C.I.: 95% confidence interval. ∆48h-[Na] of -5 to 5 mmol/L was used as reference category.