#### **Supplemental digital content (SDC)**

#### **Excluded data**

#### - PK calculation

One valid index pair was missing at predefined time points LOC1, ROC1, LOC2 (invalid index values) and respectively 4 index pairs at ROC2 (EEG recording was turned off before the clinical endpoint ROC2 was reached).

*- Correlation between SE and BIS*

9796 valid data pairs in the sevoflurane and 7507 valid data pairs in the propofol group, a total of 48h EEG, were used for analysis. Invalid data pairs, i.e, at least one monitor does not show an index (BIS: -3276.8, SE: -32767), were excluded from analysis. The exact amount of invalid data pairs for BIS was 795 (sevoflurane group: 216, propofol group: 579) and respectively 118 for SE (sevoflurane group: 88, propofol group: 30).