

SUPPLEMENTARY TABLE S1. ADMISSION PATIENT DEMOGRAPHICS: MEDIAN, IQR, AND RAW NUMBERS

	<i>Median (IQR) or Raw Number</i>
Number of patients	43
Age (years)	46 (31–65)
Sex	
Male	35
Female	8
Duration of high frequency physiological recording (h)	137.4 (89.2–174.5)
Admission GCS (total)	6 (3–11)
Admission GCS Motor	3 (1–5)
Number with hypoxia episode	8
Number with Hypotension Episode	3
Admission pupil response	
Bilaterally reactive	32
Unilateral unreactive	4
Bilaterally unreactive	7
Marshall CT grade	3 (2–6)
Rotterdam CT grade	3 (3–5)
Number with traumatic SAH	32
Number with epidural hematoma	13
ICP (mm Hg)	12.5 (9.6–16.6)
% time with ICP >20 mm Hg	5.8 (1.2–23.2)
PbtO <sub>2</sub> (mm Hg)	26.8 (22.4–31.4)
% time with PbtO <sub>2</sub> < 20 mm Hg	19.0 (3.9–34.6)
PRx (a.u.)	0.098 (-0.054–0.199)
% time with PRx >0	60.9 (42.9–70.2)
% time with PRx > +0.25	34.6 (20.7–47.6)
% time with PRx > +0.35	23.8 (15.7–39.2)
<i>Abnormal PRx and abnormal PbtO<sub>2</sub></i>	
% time with PRx >0 and PbtO <sub>2</sub> < 20 mm Hg	7.2 (2.2–22.6)
% time with PRx > +0.25 and PbtO <sub>2</sub> < 20 mm Hg	3.1 (0.9–14.2)
% time with PRx > +0.35 and PbtO <sub>2</sub> < 20 mm Hg	2.4 (0.6–10.3)
<i>Abnormal PRx and normal PbtO<sub>2</sub></i>	
% time with PRx >0 and PbtO <sub>2</sub> > 20 mm Hg	36.2 (16.9–49.7)
% time with PRx > +0.25 and PbtO <sub>2</sub> > 20 mm Hg	20.0 (6.2–28.3)
% time with PRx > +0.35 and PbtO <sub>2</sub> > 20 mm Hg	12.1 (4.1–21.5)
<i>Normal PRx and abnormal PbtO<sub>2</sub></i>	
% time with PRx <0 and PbtO <sub>2</sub> < 20 mm Hg	3.0 (0.8–8.0)
% time with PRx < +0.25 and PbtO <sub>2</sub> < 20 mm Hg	7.0 (2.4–15.4)
% time with PRx < +0.35 and PbtO <sub>2</sub> < 20 mm Hg	9.8 (2.9–18.3)
<i>Global outcomes</i>	
6 month GOSE	3 (1 – 5)
Total dead	9
Total unfavorable outcome	24

Unfavorable outcome defined as GOSE of ≤4 at 6 months.

a.u., arbitrary units; CT, computed tomography; GCS, Glasgow Coma Score, GOSE, Glasgow Outcome Score Extended; ICP, intracranial pressure; IQR, interquartile range; MAP, mean arterial pressure; PbtO<sub>2</sub>, brain tissue oxygen, PRx, pressure reactivity index (correlation between slow-waves of ICP and MAP); SAH, subarachnoid haemorrhage.

SUPPLEMENTARY TABLE S2. UNIVARIATE LOGISTICAL REGRESSION A/D AND F/U OUTCOME FOR PHYSIOLOGICAL VARIABLES: SIGNIFICANT RESULTS ONLY

<i>Variable</i>	<i>A/D AUC (95% CI)</i>	<i>p value</i>	<i>F/U AUC (95% CI)</i>	<i>p value</i>
% time with ICP >20 mm Hg	0.648 (0.422-0.842)	<b>0.006</b>	0.560 (0.391-0.732)	0.432
% time with PRx >0	0.734 (0.570-0.868)	<b>0.003</b>	0.661 (0.478-0.821)	0.063
% time with PRx > +0.25	0.747 (0.581-0.893)	<b>0.002</b>	0.679 (0.500-0.830)	<b>0.034</b>
% time with PRx > +0.35	0.745 (0.559-0.890)	<b>0.002</b>	0.690 (0.522-0.837)	<b>0.030</b>
% time with PbtO <sub>2</sub> < 20 mm Hg	0.571 (0.337-0.798)	0.142	0.682 (0.516-0.829)	<b>0.030</b>
% time with PRx >0 and PbtO <sub>2</sub> < 20 mm Hg	0.618 (0.387-0.820)	0.121	0.661 (0.497-0.819)	<b>0.041</b>

Bolded *p* values are those reaching significance (i.e., *p* < 0.05).

A/D, alive/dead, AUC, area under the receiver operating curve; CI, confidence interval, F/U, favorable/unfavorable outcome (i.e., favorable, Glasgow Outcome Scale of 5–8; unfavourable, Glasgow Outcome Scale of 1–4); ICP, intra-cranial pressure; MAP, mean arterial blood pressure, PbtO<sub>2</sub>, brain tissue oxygen; PRx, pressure reactivity index (correlation between ICP and MAP).