

No.	Ass. (n)	Age (Yrs)	Diagnosis	Type of admission	Chronic Disease	GCS	Syst. BP (mmHg)	HR (bpm)	T (°C)	Oxygen (mmHg)	Ur. output (l/24 h)	Urea (mmol/l)	Lc (/mcl)	K+ (mmol/l)	Na+ (mmol/l)	Bic (mmol/l)	Bili (µmol/l)	SAPS II Score*
1	16	42	Thoracic trauma	medical	no	15	88-152	75-118	36.4-37.7	-	1.1	5.6	16,0	3.7-3.9	141	24.0-25.0	19	18
2	12	38	Traumatic brain injury, pneumothorax	unscheduled surgery	no	6-10	72-160	60-165	36.4-37.7	120-234	1.3	5.6-9.3	14.0-16.0	3.3-4.7	141-145	18.0-25.0	29-34	46
3	16	70	Ischemic stroke, atrial fibrillation	Medical	no	12	150-185	90-108	36.3-36.9	-	1.2	-	8.7-9.0	3.6-3.8	137-139	23.0-24.0	-	26
4	12	39	Haemorrhagic shock, splenectomy	scheduled surgery	no	15	105-130	75-127	35.8-36.6	148-291	1.4	-	13.0-20.3	3.6-4.2	139-141	14.7-23.5	13	22
5	14	42	Septic shock	medical	ac. myeloid leukaemia	15	85-125	118-140	38.3-39.3	125-161	0.1	9.7-11.4	0-0.1	3.6-4.2	141	14.5-22.0	15-49	79
6	22	56	Liver metastases	scheduled surgery	metastatic adenocarcinoma of colon	15	95-120	76-100	36.5-37.7	-	1.1	-	10.7-12.0	3.6-3.9	141	24.0-25.0	17-19	21
7	14	76	Pleural abscess	unscheduled surgery	no	15	88-130	75-110	36.4-39.1	-	1.1	11.0-14.0	12.0-13.7	3.6-4.1	141	24.0-26.0	19	44
8	17	39	Thoracic trauma	medical	no	11	85-165	75-165	36.4-37.7	-	1.5	3.6-4.3	16.0-22.0	3.5-3.9	139-141	24.0-25.0	19-37	26
9	16	36	Liver haemorrhage	unscheduled surgery	no	15	95-120	35-102	36.3-37.6	-	1.1	-	9.8-12.0	3.6-3.9	139-141	19.0-24.0	17-27	27
10	16	21	Thoraco-abdominal trauma	medical	no	15	95-165	75-125	36.5-37.7	-	1.3	3.6-4.3	15.6-22.0	3.5-3.9	139-141	24.0-25.0	35-67	18
11	20	51	Pulmonary embolism, uterine haemorrhage	unscheduled surgery	no	15	105-130	75-115	35.8-37.6	148-291	1.5	9.7	10.3-19.0	3.7-4.2	139-141	15.0-23.5	13	27
12	16	40	Liver haemorrhage	unscheduled surgery	no	15	95-120	45-125	36.4-37.7	-	1.6	9.8-10.4	9.8-12.0	2.9-3.7	139-141	21.0-24.0	17-47	33
13	11	37	Lemierre's syndrome	unscheduled surgery	no	15	95-130	85-123	37.5-39.1	-	1.1	7.0-9.0	10.1-13.3	3.6-3.9	141	24.0-26.0	45	20
14	17	37	Drug and alcohol intoxication	medical	no	15	115-130	76-95	36.5-37.1	-	2.8	-	8	3.7-3.9	141	24.0-25.0	15	6
15	10	57	Ac. appendicitis, cor. heart disease	unscheduled surgery	no	15	100-130	85-95	37.1-37.9	-	1.5	7.0	10.1-16.0	3.6-4.1	141	24.0-26.0	-	15
16 <sup>†</sup>	22	39	Cardiac arrest, cardiogenic shock	medical	no	3	65-120	75-145	32.0-37.2	98-180	3.3	8.4	23.5	5.3	138	13.5-18.5	11	72
17 <sup>†</sup>	23	69	Aortic valve replacement	scheduled surgery	no	15	68-162	65-122	35.2-38.8	172-210	1.8	5.0	5.9-9.9	3.8-4.5	136-137	24.0-28.0	-	38
18 <sup>†</sup>	20	66	Pleural abscess	scheduled surgery	no	15	72-95	100-122	36.4-37.9	142-202	0.7	-	8.0-17.0	4.0-4.4	135-143	28.0-29.0	8	34
19 <sup>†</sup>	26	49	ARDS, sepsis	medical	AIDS	15	62-88	45-135	37.9-38.4	53-72	0.8	24.0	36.3	4.4-5.1	143-146	25.3-26.3	86	79
20 <sup>†</sup>	25	71	Pancreas-resection, haemorrhagic shock	scheduled surgery	no	15	74-123	85-112	38.1-39.3	94-204	0.52	7.9	2.6-7.2	4.0-4.5	132-138	18.6-23.6	17	48

**Supplementary file 1.** Number of assessments and characteristics of the patients who were depicted in the clinical scenarios.

Demographic data and diagnoses of the patients described in the clinical scenarios are provided. Data regarding the different SAPS II items (single values or minimum-maximum, where appropriate) are listed to fully describe the fictive patients who were used for the study. *Ass.*, number of assessments; *GCS*, Glasgow coma scale; *Syst. BP*, systolic blood pressure; *HR*, heart rate; *T*, temperature; *Oxygen*, partial arterial oxygen pressure/fraction of inspired oxygen; *Ur. output*, urinary output; *Lc*, leucocytes; *K+*, potassium; *Na+*, sodium; *Bic*, bicarbonate; *Bili*, bilirubin. \* reference value; <sup>†</sup> clinical scenarios with a digital lay-out.