

ALLEGATO 2. SAPS II SCORE*

Variable	Definition	Comments
SAPS II	The SAPS II components should be measured 24 hours after admission to the ICU. The worst values within those 24 hours are to be recorded; each category of values has a weighted value in points	The total score must be computed adding the weighted values
Age	Use the patient's age (in years) at his last birthday	
Heart rate	Use the worst value in 24 hours, either low or high heart rate; if it varied from cardiac arrest (11 points) to extreme tachycardia (7 points), assign 11 points	
Systolic blood pressure	Use the same method as for heart rate: e.g. if it varied from 60 mm Hg to 205 mm Hg, assign 13 points	
Body temperature	Use the highest temperature in degrees centigrade or Fahrenheit	
PaO ₂ /FiO ₂ ratio	If ventilated or continuous pulmonary artery pressure, use the lowest value of the ratio	Only if the patient has been mechanically ventilated
Urinary output	Total urinary output in 24 hours	
Serum urea or serum urea nitrogen level	Use the highest value in mmol/L for serum urea, in mg/dL for serum urea nitrogen	
WBC count	Use the worst (high or low) WBC count according to the scoring sheet	
Serum potassium level	Use the worst (high or low) in mmol/L, according to the scoring sheet	
Serum sodium level	Use the worst (high or low) in mmol/L, according to the scoring sheet	
Serum bicarbonate level	Use the lowest value in mEq/L	
Bilirubin level	Use the highest value in µmol/L or mg/dL	
Glasgow Coma score*	Use the lowest value; if the patient is sedated, record the estimated Glasgow Coma Score before sedation.	This variable must be repeated on the HELICS form
Type of admission	<ul style="list-style-type: none"> • Unscheduled surgical • Scheduled surgical • Medical 	<ul style="list-style-type: none"> • Patients added to the operating room schedule within 24 hours of the operation • Patient whose surgery was scheduled at least 24 hours in advance • Patients having no surgery within one week of admission to ICU
AIDS	Select YES if HIV-positive with clinical complications such as <i>Pneumocystis carinii</i> pneumonia, Kaposi's sarcoma, lymphoma, tuberculosis, or toxoplasma infection	
Haematologic malignancy	Select YES, if lymphoma, acute leukaemia or multiple myeloma	
Metastatic cancer	Select YES, if proven metastasis by surgery, computed tomographic scan, or any other method	

SAPS II weights

Age (in years)	< 40 ⁰	40–59 ⁷	60–69 ¹²	70–74 ¹⁵	75–79 ¹⁶	≥ 80 ¹⁸
Heart rate (beats/min)	< 40 ¹¹	40–69 ²	70–119 ⁰	120–159 ⁴	≥ 160 ⁷	
Systolic BP (mm Hg)	< 70 ¹³	70–99 ⁵	100–199 ⁰	≥ 200 ²		
Body temperature (°C)	< 39 ⁰	≥ 39 ³				
Only if ventilated or positive airway pressure (BPAP/CPAP)						
– PaO ₂ (mmHg)/FiO ₂ ratio	< 100 ¹¹	100–199 ⁹	≥ 200 ⁵	e.g. 70 mmHg / 0.5 = 140		
– PaO ₂ (Kpa)/FiO ₂ ratio	(< 13.3)	(13.2–26.4)	(≥ 26.5)	10 Kpa/0.5 = 20		
Urinary output (ml/day)	< 500 ¹²	500–999 ⁴	≥ 1000 ⁰			
Serum urea (mg/dl)	< 60 ⁰	< 60–179 ⁶	≥ 180 ¹⁰			
(mmol/L)	(< 10.0)	(10.0–29.9)	(≥ 30.0)			
WBC count (10 ³ /mm ³)	< 1.0 ¹²	1.0–19.9 ⁰	≥ 20.0 ³			
Serum potassium (mEq/L)	< 3.0 ³	3.0–4.9 ⁰	≥ 5.0 ³			
Serum sodium (mEq/L)	< 125 ⁵	125–144 ⁰	≥ 145 ¹			
Bicarbonate (mEq/L)	< 15 ⁴	15–20 ³	≥ 20 ⁰			
Bilirubin (mg/dl)	< 4.0 ⁰	< 4.0–5.9 ⁴	≥ 6.0 ⁹			
(µmol/L)	(< 68.4)	(68.4–102.5)	(≥ 102.6)			
Glasgow coma score (if patient is sedated, estimate status before sedation)	< 6 ²⁶	6–8 ¹³	9–10 ⁷	11–13 ⁵	14–15 ⁰	
Chronic diseases	metastatic cancer ⁹		haematol. malignancy ¹⁰		AIDS ¹⁷	
Type of admission	medical ⁶		scheduled surgical ⁰		unscheduled surgical ⁰	

The superscript numbers in the SAPS score table are the sub-scores associated with each variable category.

*da European Centre for Disease Prevention and Control. Surveillance of healthcare-associated infections and prevention indicators in European intensive care units. Stockholm: ECDC; 2017.