Data Dictionary for the Stacking Model (ICU LOS prediction model)

Table	Features	Description	Туре
Admission	UnitLengthStay_trunc	The patient length of stay in the ICU (outcome) (in days truncated in 21 days)	Numerical
Admission	Age	Age (in years and ≥ 16)	Integer
Admission	Gender	Gender: F = Female; M = Male	Categorical
Admission	Length Hospital Stay Prior Unit Admission	The hospital length of stay prior to the admission in the ICU (in days)	Numerical
Admission	AdmissionTypeName	Type of ICU admission: "Cirurgia de urgência / emergência" = Urgent Surgery / Operating Room "Cirurgia eletiva" = Elective surgery "Clínica" = Medical	Categorical
Admission	AdmissionSourceName	Source of ICU admission: "Centro Cirúrgico" = Surgical center "Emergência" = Emergency "Enfermaria/Quarto/Semi-intensiva" = Ward/Room/Step down unit "Outra UTI/UCI do seu hospital" = Another ICU from the same hospital "Outros" = Other	Categorical
Comorbidities	ChfNyha	Cardiac Heart Failure: "Class23" = Class II or III of NYHA Classification "Class4" = Class IV or III of NYHA Classification "No" = No	Binary
Comorbidities	IsCrf	Chronic Renal Failure: "Dialysis" = Chronic Renal Failure with dialysis "NoDialysis" = Chronic Renal Failure without dialysis "No" = No	Binary
Comorbidities	IsCirrhosis	Cirrhosis Child-Pugh for Chronic Liver Disease: "ChildAB" = Class "A" or "B" "ChildC" = Class "C" "No" = No	Binary
Comorbidities	IsAids	Aids $0 = No; 1 = Yes$	Binary
Comorbidities	IsArterialHypertension	Arterial Hypertension $0 = \text{No}$; $1 = \text{Yes}$	Binary
Comorbidities	IsAsthma	Asthma $0 = \text{No}$; $1 = \text{Yes}$	Binary
Comorbidities	IsAngina	Angina	Binary
	•	0 = No; 1 = Yes Cardiac Arrhythmia	•
Comorbidities	IsCardiacArrhythmia	0 = No; $1 = Yes$	Binary
Comorbidities	IsChronicAtrialFibrilation	Chronic Atrial Fibrilation $0 = \text{No}$; $1 = \text{Yes}$	Binary
Comorbidities	IsDementia	Dementia $0 = \text{No}$; $1 = \text{Yes}$	Binary
Comorbidities	IsAlcoholism	Alcoholm 0 = No; 1 = Yes	Binary
Comorbidities	IsCardiacTransplant	Cardiac Transplant 0 = No; 1 = Yes	Binary
Comorbidities	IsChemotherapy	Chemotherapy	Binary
Complications	IsRespiratoryFailure	0 = No; 1 = Yes Respiratory Failure at admission (first 24h)	Binary
Complications	IsMechanicalVentilation	0 = No; 1 = Yes Mechanical Ventilation at admission (first 24h) 0 = No; 1 = Yes	Binary
Complications	IsNonInvasiveVentilation	Non-invasive Ventilation at admission (first 24h) 0 = No; $1 = Yes$	Binary
Complications	IsVasopressors	Vasopressors at admission (first 24h) $0 = \text{No}; 1 = \text{Yes}$	Binary
Complications	IsAcuteKidneyInjury	Acute Kidney Injury at admission (first 24h) $0 = \text{No}; 1 = \text{Yes}$	Binary
Complications	IsAsystole	Asystole at admission (first 24h) $0 = \text{No}; 1 = \text{Yes}$	Binary
Complications	IsAcuteAtrialFibrilation	Acute Atrial Fibrilation at admission (first 24h) $0 = \text{No}; 1 = \text{Yes}$	Binary
Laboratory	LowestGlasgowComaScale1h	Lowest Glasgow Coma Scale (first 1 hour of admission)	Integer (3-15)
Laboratory	HighestHeartRate1h	Highest Heart Rate (first 1 hour of admission)	Numerical

Laboratory	HighestRespiratoryRate1h	Highest Respiratory Rate (first 1 hour of admission)	Numerical
Laboratory	HighestTemperature1h	Highest Temperature (first 1 hour of admission) (Celsius)	Numerical
Laboratory	HighestLeukocyteCount1h	Highest LeukocyteCount (first 1 hour of admission)	Numerical
Laboratory	HighestCreatinine1h	Highest Creatinine (first 1 hour of admission)	Numerical
Laboratory	Urea	Urea (first 1 hour of admission)	Numerical