Extracted Variable	In Paper's Table 1 / Final Model?	Role in Study / Justification for Extraction
Identifiers		
stay_id, subject_id	No	Unique identifiers for each patient and ICU stay.
Response Variable		
weaning_success	No (it's the outcome)	Response Variable. Calculated to label each patient's outcome based on the paper's criteria.
Demographics		
age, sex, bmi	Yes	Demographic and baseline variables.
Comorbidities & Scores		
charlson_comorbidity_index	Yes	Comorbidity variable.
chronic_pulmonary_disease	Yes	Comorbidity variable.
congestive_heart_failure	Yes	Comorbidity variable.
dementia	Yes	Comorbidity variable.
severe_liver_disease	Yes	Comorbidity variable.
renal_disease	Yes	Comorbidity variable.
rheumatic_disease	Yes	Comorbidity variable.
diabetes	Yes	Comorbidity variable.
sapsii, first_day_sofa	No	Methodological Variables. Extracted due to their relevance mentioned in the paper's methods for balancing groups and defining the cohort.
lowest_gcs	Yes	Glasgow Coma Scale score, a key predictor in the final model.
Therapeutic Measures		
imv_duration_days	Yes	Duration of Invasive Mechanical Ventilation.
vasopressor_used	Yes	Use of vasopressors.
antibiotic_duration_days	Yes	Duration of antibiotic use.
crrt_duration_days	Yes	Duration of CRRT therapy.
Vitals & Labs		
urine_output_24hr	Yes	Urine output.
highest_heart_rate	Yes	Vital sign.
highest_resp_rate	Yes	Vital sign.
lowest_map	Yes	Vital sign.
lowest_spo2	Yes	Vital sign.
highest_temperature	Yes	Vital sign.
highest_creatinine	Yes	Lab value.
highest_aniongap	Yes	Lab value.
highest_wbc	Yes	Lab value (complete blood count).
lowest_hemoglobin	Yes	Lab value (complete blood count).
lowest_platelets	Yes	Lab value (complete blood count).
lowest_ph	Yes	Arterial blood gas value.
lowest_pao2	Yes	Arterial blood gas value.
highest_paco2	Yes	Arterial blood gas value.
lowest_base_excess	Yes	Arterial blood gas value.
Ventilation & Benchmark Parameters		
lowest_pao2fio2ratio	Yes (as OI)	Oxygenation Index.
highest_peep	Yes	Ventilator parameter.
highest_fio2	Yes	Ventilator parameter.
lowest_tidal_volume	Yes	Ventilator parameter.
rsbi	No	Benchmark Variable. Calculated to compare the model against traditional indexes, as the authors did.