

Appendix Table 1. Selected studies summarized on input variables specifications.

Publications	Vitals										Lab tests							Patient characteristics							
	Admissions	Heart Rate	Respiration Rate	Systolic BP	Diastolic BP	Blood oxygen sat	Temperature	O2-Therapy	LOC/AVPU/GCS	ECG-signal	WBCC	Thrombocytes	Hemoglobin	BUN	Glucose	Creatinine	PCO2	Bicarbonate	Anion gap	Lactate	Electrolytes	Age	Gender	Other data	
NON-AI ALGORITHMS																									
Alvarez (42)	7,466			+	+					+	+					+					+				Orders, admission information, AST
Kollef (27) derivation (29)	20,031	+	+	+	+	+	+								+			+		+	+				Medication, AST
Bartkiowak (22)	32,537	+	+	+	+	+	+	+		+	+	+		+				+	+		+	+			History, AST, AP, Alb, Prt, Bil
Churpek (20)	269,999	+	+	+	+	+	+	+		+	+	+		+				+	+		+	+			History, AST, AP, Alb, Prt, Bil
Correia (31)	NFD																								14 variables, NFD
Escobar (24)	130,627	+	+	+	+	+	+	+				+	+							+					Time, code, admission information
Evans (35)	12,881	+	+	+			+	+	+																
Ghosh (36)	14,282	+	+	+		+	+																		
Kang (37)	5,751	+	+	+	+	+	+	+		+	+	+	+						+		+	+			History
Escobar (25) derivation (26)	649,418	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+		ICD-coding, orders, time, admission information, code, assessment
Kirkland (51)	2,213	+	+	+	+	+	+																		
Rothman (39)	171,250	+	+	+	+	+	+			+		+	+		+						+				Assessment
AI ALGORITHMS																									
Alaa (40)	6,321	+	+	+	+	+	+	+		+	+	+	+	+	+	+					+	+	+		Ethnicity, ICD-coding, orders, time, admission information, history
Bai (33)	2,467									+															
Churpek (21)	269,999	+	+	+	+	+	+	+		+	+	+		+				+	+		+	+			History, AST, AP, Alb, Prt, Bil
Edelson (23)	269,999	+	+																			+			
Hu (34)	1,991																								
Hu (38)	565	+	+	+	+		+			+	+	+	+	+	+			+							
Kwon (30)	52,131	+	+	+			+																		
Mohamadlou (41)	104,312	+	+	+	+	+	+	+														+			
Shamout (32)	37,284	+	+	+		+	+	+	+																

AI: Artificial Intelligence, BP: Blood Pressure, LOC: Level of Consciousness, AVPU: Alert, Verbal, Pain, Unresponsive, GCS: Glasgow Coma Scale, WBCC: White Blood Cell Count, BUN: Blood Urine Nitrogen, AST: Aspartate Transaminase, AP: Alkaline Phosphatase, Alb: Albumin, Prt: Total Protein, Bil: Bilirubin NFD: Not Further Defined