

Appendix Table 2. Study designs and settings

Publication <i>author, year</i>	Design	Setting <i>population, endpoint</i>	Technique
NON-AI ALGORITHMS			
Alvarez (42) , 2013	Retrospective Cohort	General medicine wards, CA/Death	Multivariate Regression
Kollef (27) , 2014, <i>supported by Hackmann (28), Bailey (29)</i>	Randomized Controlled Trail	General medicine wards, ICU	Logistic Regression
Bartkiowak (22) , 2019	Retrospective Cohort	Surgery Wards, ICU/CA/Death	Multivariate Regression
Churpek (20) , 2014	Multicenter Retrospective Cohort	Non-ICU wards, ICU/CA/Death	Multivariate Regression
Correia (31) , 2018	Retrospective Cohort	General medicine wards, ICU/Death	Not Further Defined
Escobar (24) , 2012	Multicenter Retrospective Cohort	Non-ICU wards, ICU/Death	Logistic Regression
Evans (35) , 2015	Prospective Observational Study	Surgical trauma and oncology wards, RRT	Modified, Automatic EWS
Ghosh (36) , 2018	Retrospective Cohort	General medicine wards, ICU/Death	Logistic Regression
Kang (37) , 2016	Blind Validation Study	General medicine wards, ICU/CA	Multivariate Regression
Escobar (25) , 2020 <i>supported by Kipnis (26)</i>	Multicenter Implementation Study	Non-ICU wards, ICU	Discrete-Time Logistic Regression
Kirkland (51) , 2013	Retrospective Cohort	General medicine wards, RRT/ICU/Death	Multivariate Regression
Rothman (39) , 2013	Multicenter Retrospective Cohort	All wards (including ICU), Mortality	Logistic Regression
AI ALGORITHMS			
Alaa (40) , 2017	Retrospective Cohort	General medicine wards, ICU	Gaussian Processes Ensemble
Bai (33) , 2014	Retrospective Cohort	All wards (including ICU), Code blue	Apriori Algorithm
Churpek (21) , 2016	Multicenter Retrospective Cohort	Non-ICU wards, ICU/CA/Death	Random Forest
Edelson (23) , 2018	Multicenter Retrospective Cohort	Non-ICU wards, ICU/CA/Death	Gradient Boosted Machine
Hu (34) , 2012	Retrospective Cohort	All wards (including ICU), CA	Apriori Algorithm
Hu (38) , 2016	Retrospective Cohort	Hematologic ward, ICU	Neural Network
Kwon (30) , 2018	Multicenter Retrospective Cohort	All wards (including ICU), Mortality	Neural Network
Mohamadlou (41) , 2019	Multicenter Retrospective Cohort	All wards (including ICU), ICU/CA/Death	Neural Network
Shamout (32) , 2020	Multicenter Retrospective Cohort	All wards (including ICU), CA	Neural Network