

Table 2: Predictive Performance Characteristics

Model	Predicted Outcome	AUROC	Accuracy (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)
Logistic Regression							
Hospital Admission	Full	0.77	0.70 (0.63-0.77)	0.81 (0.73-0.89)	0.58 (0.47-0.69)	0.69 (0.60-0.78)	0.73 (0.61-0.84)
	Reduced	0.77	0.72 (0.64-0.78)	0.84 (0.76-0.91)	0.58 (0.47-0.69)	0.70 (0.61-0.78)	0.75 (0.64-0.86)
Critical Care Need	Full	0.73	0.67 (0.59-0.74)	0.54 (0.34-0.74)	0.69 (0.61-0.76)	0.22 (0.12-0.33)	0.90 (0.85-0.96)
	Reduced	0.73	0.68 (0.60-0.75)	0.68 (0.53-0.89)	0.71 (0.6-0.75)	0.93 (0.16-0.37)	0.27 (0.89-0.98)
Random Forest							
Hospital Admission	Full	0.83	0.75 (0.68-0.81)	0.87 (0.80-0.94)	0.62 (0.51-0.72)	0.72 (0.64-0.81)	0.8 (0.70-0.90)
	Reduced	0.82	0.75 (0.68-0.81)	0.82 (0.75-0.90)	0.67 (0.56-0.77)	0.74 (0.66-0.83)	0.76 (0.66-0.87)
Critical Care Need	Full	0.79	0.83 (0.76-0.88)	0.38 (0.18-0.57)	0.90 (0.86-0.95)	0.39 (0.19-0.59)	0.90 (0.85-0.95)
	Reduced	0.81	0.76 (0.69-0.83)	0.71 (0.53-0.89)	0.77 (0.70-0.84)	0.34 (0.21-0.47)	0.94 (0.90-0.98)

Note: AUROC = area under the receiver operator curve, PPV = positive predictive value, NPV = negative predictive value.