

## **Supplementary Appendix**

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Lin MY, Ray MJ, Rezny S, et al. Predicting Carbapenem-Resistant Enterobacteriaceae Carriage at the Time of Admission Using a State-Wide Hospital Discharge Database.

# Predicting Carbapenem-Resistant Enterobacteriaceae Carriage at the Time of Admission Using a State-Wide Hospital Discharge Database

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**Table S1: Receiver Operating Curve Data Points for the Full Model Presented in Manuscript Table 1 and Supplement Figure S1**

Predicted probabilities (using bootstrap aggregation) are averages of estimates from 100 samples of 100 cases + corresponding controls

Area under the curve (trapezoidal rule) = 0.84215

Predicted CRE Probability	Sensitivity	1-Specificity	Specificity
0	1	1	0
0.0002	1	1	0
0.0004	0.989247	0.784518	0.215482
0.0006	0.962366	0.620206	0.379794
0.0008	0.892473	0.474499	0.525501
0.001	0.860215	0.378193	0.621807
0.0012	0.822581	0.315242	0.684758
0.0014	0.784946	0.282752	0.717248
0.0016	0.758065	0.263490	0.736510
0.0018	0.741935	0.247206	0.752794
0.002	0.736559	0.231268	0.768732
0.0022	0.715054	0.214686	0.785314
0.0024	0.688172	0.197177	0.802823
0.0026	0.688172	0.180901	0.819099
0.0028	0.661290	0.162879	0.837121
0.003	0.645161	0.146764	0.853236
0.0032	0.602151	0.131301	0.868699
0.0034	0.591398	0.117078	0.882922
0.0036	0.569892	0.103973	0.896027
0.0038	0.548387	0.091021	0.908979
0.004	0.510753	0.079747	0.920253
0.0042	0.494624	0.069262	0.930738
0.0044	0.473118	0.059956	0.940044
0.0046	0.473118	0.051975	0.948025
0.0048	0.456989	0.045051	0.954949
0.005	0.430108	0.039046	0.960954
0.0052	0.424731	0.034742	0.965258
0.0054	0.424731	0.031134	0.968866
0.0056	0.419355	0.027864	0.972136
0.0058	0.419355	0.025559	0.974441
0.006	0.419355	0.023743	0.976257
0.0062	0.397849	0.022349	0.977651
0.0064	0.392473	0.020902	0.979098
0.0066	0.387097	0.019937	0.980063
0.0068	0.376344	0.018949	0.981051
0.007	0.376344	0.018336	0.981664
0.0072	0.370968	0.017700	0.982300
0.0074	0.370968	0.017210	0.982790
0.0076	0.365591	0.016766	0.983234
0.0078	0.365591	0.016406	0.983594

Predicted CRE Probability	Sensitivity	1-Specificity	Specificity
0.008	0.365591	0.015923	0.984077
0.0082	0.365591	0.015602	0.984398
0.0084	0.365591	0.015326	0.984674
0.0086	0.365591	0.015111	0.984889
0.0088	0.365591	0.014813	0.985187
0.009	0.360215	0.014591	0.985409
0.0092	0.360215	0.014323	0.985677
0.0094	0.360215	0.014162	0.985838
0.0096	0.360215	0.013970	0.986030
0.0098	0.360215	0.013748	0.986252
0.01	0.354839	0.013534	0.986466
0.02	0.247312	0.006970	0.993030
0.03	0.193548	0.004297	0.995703
0.04	0.155914	0.003010	0.996990
<b>0.05</b>	<b>0.129032</b>	<b>0.002336</b>	<b>0.997664</b>
0.06	0.112903	0.001846	0.998154
0.07	0.102151	0.001501	0.998499
0.08	0.096774	0.001264	0.998736
0.09	0.080645	0.001103	0.998897
<b>0.1</b>	<b>0.064516</b>	<b>0.000927</b>	<b>0.999073</b>
0.12	0.053763	0.000751	0.999249
0.14	0.048387	0.000605	0.999395
0.16	0.026882	0.000506	0.999494
0.18	0.026882	0.000406	0.999594
<b>0.2</b>	<b>0.026882</b>	<b>0.000345</b>	<b>0.999655</b>
0.22	0.026882	0.000291	0.999709
0.24	0.021505	0.000268	0.999732
0.26	0.021505	0.000230	0.999770
0.28	0.021505	0.000184	0.999816
<b>0.3</b>	<b>0.016129</b>	<b>0.000169</b>	<b>0.999831</b>
0.32	0.016129	0.000146	0.999854
0.34	0.016129	0.000130	0.999870
0.36	0.016129	0.000115	0.999885
0.38	0.016129	0.000107	0.999893
<b>0.4</b>	<b>0.010753</b>	<b>0.000092</b>	<b>0.999908</b>
0.42	0.010753	0.000084	0.999916
0.44	0.010753	0.000077	0.999923
0.46	0.005376	0.000077	0.999923
0.48	0.005376	0.000061	0.999939
<b>0.5</b>	<b>0.005376</b>	<b>0.000046</b>	<b>0.999954</b>
0.52	0.005376	0.000046	0.999954
0.54	0.005376	0.000046	0.999954
0.56	0.005376	0.000046	0.999954
0.58	0.005376	0.000038	0.999962
0.6	0.005376	0.000038	0.999962
0.62	0.005376	0.000038	0.999962
0.64	0.005376	0.000038	0.999962
0.66	0.005376	0.000038	0.999962
0.68	0	0.000038	0.999962

Predicted CRE Probability	Sensitivity	1-Specificity	Specificity
0.7	0	0.000031	0.999969
0.72	0	0.000008	0.999992
0.74	0	0.000008	0.999992
0.76	0	0	1
0.78	0	0	1
0.8	0	0	1
0.82	0	0	1
0.84	0	0	1
0.86	0	0	1
0.88	0	0	1
0.9	0	0	1
0.92	0	0	1
0.94	0	0	1
0.96	0	0	1
0.98	0	0	1
1	0	0	1

**Figure S1:** Receiver Operating Characteristic Curve for Full Model in Manuscript Table 1

