Supplemental Table 3. Model performance (AUROCs and Actual/Predicted ratios) by diagnosis strings

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ICU mortality** | **Mean** | **Median** | **Standard deviation** | **P25** | **P75** | **Interquartile Range** | **Minimum** | **Maximum** |
| AUROC\_APACHEIVa | 0.836 | 0.841 | 0.088 | 0.788 | 0.89 | 0.102 | 0.342 | 0.999 |
| AUROC\_APACHEIVb | 0.838 | 0.84 | 0.082 | 0.788 | 0.893 | 0.105 | 0.494 | 0.999 |
| AUROC\_NewModel | 0.889 | 0.894 | 0.062 | 0.852 | 0.928 | 0.076 | 0.626 | 0.994 |
| A:P Ratio\_APACHEIVa | 0.712 | 0.714 | 0.292 | 0.54 | 0.879 | 0.339 | 0.063 | 1.753 |
| A:P Ratio\_APACHEIVb | 0.950 | 0.921 | 0.421 | 0.686 | 1.14 | 0.454 | 0.086 | 2.681 |
| A:P Ratio\_NewModel | 1.059 | 1.038 | 0.332 | 0.867 | 1.233 | 0.366 | 0.178 | 2.038 |
| **Hospital mortality** | **Mean** | **Median** | **Standard deviation** | **P25** | **P75** | **Interquartile Range** | **Minimum** | **Maximum** |
| AUROC\_APACHEIVa | 0.815 | 0.810 | 0.071 | 0.770 | 0.868 | 0.098 | 0.574 | 0.993 |
| AUROC\_APACHEIVb | 0.813 | 0.809 | 0.070 | 0.768 | 0.865 | 0.097 | 0.558 | 0.993 |
| AUROC\_NewModel | 0.868 | 0.874 | 0.061 | 0.835 | 0.913 | 0.078 | 0.613 | 0.990 |
| A:PRatio\_APACHEIVa | 0.670 | 0.682 | 0.253 | 0.503 | 0.805 | 0.302 | 0.090 | 1.559 |
| A:PRatio\_APACHEIVb | 1.001 | 0.944 | 0.390 | 0.774 | 1.170 | 0.396 | 0.132 | 2.859 |
| A:Pratio\_NewModel | 1.041 | 1.032 | 0.299 | 0.851 | 1.180 | 0.329 | 0.266 | 1.866 |

Footnote: Includes all unique APACHE diagnoses with at least 200 observations