**Supplemental Digital Data 2.**

**Table 1.** Performance Metrics at Sensitives of 0.85, 0.90, and 0.95 for the Criticality Index – Mortality (CI-M) models. Metrics for the overall performance and the individual model performances are shown.

**Table 2.** Comparison of observed and expected proportions of deaths in the two worst performing models and the models from the first and last time periods for comparison.

**Figure 1.** Calibration plots for the two worst performing models (60 hours, 72 hours) and the models from the first and last time periods for comparison.

**Figure 2.** Area under the ROC curves for the two worst performing models (60 hours, 72 hours) and the models from the first and last time periods for comparison.

**Table 1**. Performance Metrics at Sensitives of 0.85, 0.90, and 0.95 for the Criticality Index – Mortality (CI-M) models. Metrics for the overall performance and the individual model performances s are shown.

|  |
| --- |
| **Overall** |
| **Sensitivity** |  | **Specificity** | **Precision** | **Negative Predictive Value**  | **Mathew's Correlation Coefficient** | **F1 Score** |
| 0.85 |  | 0.695 (0.690, 0.699) | 0.078 (0.074, 0.082) | 0.994 (0.993, 0.994) | 0.197 (0.189, 0.204) | 0.142 (0.137, 0.147) |
| 0.90 |  | 0.630 (0.625, 0.634) | 0.069 (0.065, 0.072) | 0.995 (0.995, 0.996) | 0.184 (0.177, 0.191) | 0.127 (0.123, 0.132) |
| 0.95 |   | 0.484 (0.479, 0.488) | 0.053 (0.050, 0.055) | 0.997 (0.996, 0.998) | 0.146 (0.141, 0.152) | 0.100 (0.096, 0.103) |
| **Individual Models** |
|  | **ICU-Time Model** | **Specificity** | **Precision** | **Negative Predictive Value**  | **Mathew's Correlation Coefficient** | **F1 score** |
| 0.85 | 6 | 0.653 (0.637, 0.669) | 0.067 (0.054, 0.082) | 0.994 (0.989, 0.996) | 0.175 (0.144, 0.204) | 0.124 (0.107, 0.142) |
| 0.90 | 6 | 0.614 (0.598, 0.630) | 0.064 (0.052, 0.078) | 0.996 (0.992, 0.998) | 0.176 (0.150, 0.201) | 0.119 (0.103, 0.136) |
| 0.95 | 6 | 0.382 (0.366, 0.399) | 0.043 (0.035, 0.052) | 0.997 (0.992, 0.999) | 0.117 (0.097, 0.134) | 0.082 (0.072, 0.094) |
| 0.85 | 12 | 0.670 (0.653, 0.686) | 0.066 (0.053, 0.082) | 0.994 (0.990, 0.996) | 0.177 (0.145, 0.206) | 0.123 (0.106, 0.143) |
| 0.90 | 12 | 0.625 (0.608, 0.642) | 0.063 (0.051, 0.077) | 0.996 (0.992, 0.998) | 0.177 (0.148, 0.203) | 0.117 (0.101, 0.135) |
| 0.95 | 12 | 0.475 (0.458, 0.493) | 0.048 (0.039, 0.059) | 0.997 (0.993, 0.999) | 0.139 (0.117, 0.158) | 0.091 (0.079, 0.105) |
| 0.85 | 18 | 0.670 (0.653, 0.687) | 0.067 (0.054, 0.084) | 0.994 (0.989, 0.997) | 0.179 (0.143, 0.210) | 0.125 (0.107, 0.145) |
| 0.90 | 18 | 0.613 (0.595, 0.631) | 0.061 (0.049, 0.076) | 0.996 (0.991, 0.998) | 0.171 (0.142, 0.197) | 0.115 (0.098, 0.133) |
| 0.95 | 18 | 0.444 (0.426, 0.462) | 0.046 (0.037, 0.057) | 0.997 (0.992, 0.999) | 0.130 (0.107, 0.149) | 0.087 (0.075, 0.101) |
| 0.85 | 24 | 0.640 (0.622, 0.658) | 0.064 (0.051, 0.081) | 0.994 (0.990, 0.997) | 0.174 (0.140, 0.204) | 0.120 (0.102, 0.140) |
| 0.90 | 24 | 0.614 (0.595, 0.632) | 0.063 (0.050, 0.078) | 0.996 (0.991, 0.998) | 0.175 (0.145, 0.202) | 0.117 (0.101, 0.137) |
| 0.95 | 24 | 0.487 (0.468, 0.506) | 0.051 (0.041, 0.063) | 0.998 (0.993, 0.999) | 0.147 (0.125, 0.168) | 0.096 (0.082, 0.112) |
| 0.85 | 30 | 0.668 (0.650, 0.686) | 0.064 (0.049, 0.081) | 0.994 (0.989, 0.997) | 0.174 (0.136, 0.207) | 0.118 (0.100, 0.140) |
| 0.90 | 30 | 0.618 (0.599, 0.637) | 0.059 (0.046, 0.075) | 0.996 (0.992, 0.998) | 0.171 (0.140, 0.201) | 0.111 (0.094, 0.131) |
| 0.95 | 30 | 0.433 (0.414, 0.452) | 0.043 (0.034, 0.054) | 0.997 (0.992, 0.999) | 0.124 (0.102, 0.145) | 0.081 (0.069, 0.096) |
| 0.85 | 36 | 0.716 (0.697, 0.733) | 0.072 (0.055, 0.093) | 0.995 (0.990, 0.997) | 0.195 (0.153, 0.232) | 0.133 (0.111, 0.158) |
| 0.90 | 36 | 0.668 (0.649, 0.686) | 0.065 (0.051, 0.084) | 0.996 (0.992, 0.998) | 0.188 (0.154, 0.220) | 0.122 (0.103, 0.145) |
| 0.95 | 36 | 0.485 (0.465, 0.505) | 0.045 (0.035, 0.058) | 0.997 (0.992, 0.999) | 0.136 (0.110, 0.159) | 0.087 (0.073, 0.103) |
| 0.85 | 42 | 0.731 (0.712, 0.749) | 0.079 (0.061, 0.103) | 0.995 (0.990, 0.997) | 0.208 (0.165, 0.247) | 0.145 (0.121, 0.173) |
| 0.90 | 42 | 0.653 (0.633, 0.672) | 0.066 (0.051, 0.085) | 0.996 (0.991, 0.998) | 0.185 (0.150, 0.218) | 0.123 (0.103, 0.146) |
| 0.95 | 42 | 0.562 (0.542, 0.583) | 0.056 (0.043, 0.072) | 0.998 (0.993, 0.999) | 0.166 (0.137, 0.191) | 0.106 (0.089, 0.125) |
| 0.85 | 48 | 0.654 (0.633, 0.674) | 0.066 (0.051, 0.086) | 0.994 (0.989, 0.997) | 0.177 (0.137, 0.213) | 0.123 (0.102, 0.147) |
| 0.90 | 48 | 0.630 (0.609, 0.650) | 0.066 (0.051, 0.085) | 0.996 (0.991, 0.998) | 0.183 (0.146, 0.215) | 0.122 (0.102, 0.146) |
| 0.95 | 48 | 0.477 (0.456, 0.499) | 0.050 (0.039, 0.064) | 0.998 (0.993, 0.999) | 0.146 (0.119, 0.169) | 0.095 (0.079, 0.113) |
| 0.85 | 54 | 0.712 (0.692, 0.732) | 0.077 (0.058, 0.101) | 0.994 (0.989, 0.997) | 0.201 (0.159, 0.242) | 0.141 (0.117, 0.170) |
| 0.90 | 54 | 0.657 (0.636, 0.678) | 0.069 (0.053, 0.090) | 0.996 (0.991, 0.998) | 0.192 (0.153, 0.226) | 0.129 (0.107, 0.154) |
| 0.95 | 54 | 0.477 (0.455, 0.499) | 0.049 (0.038, 0.064) | 0.998 (0.992, 0.999) | 0.144 (0.117, 0.168) | 0.094 (0.078, 0.112) |
| 0.85 | 60 | 0.675 (0.654, 0.696) | 0.068 (0.051, 0.090) | 0.994 (0.989, 0.997) | 0.183 (0.140, 0.221) | 0.126 (0.103, 0.152) |
| 0.90 | 60 | 0.579 (0.557, 0.601) | 0.055 (0.042, 0.073) | 0.995 (0.989, 0.998) | 0.156 (0.120, 0.188) | 0.104 (0.086, 0.126) |
| 0.95 | 60 | 0.516 (0.494, 0.539) | 0.052 (0.039, 0.068) | 0.998 (0.992, 0.999) | 0.156 (0.127, 0.183) | 0.098 (0.081, 0.118) |
| 0.85 | 66 | 0.701 (0.679, 0.722) | 0.073 (0.054, 0.097) | 0.994 (0.988, 0.997) | 0.194 (0.149, 0.237) | 0.134 (0.109, 0.163) |
| 0.90 | 66 | 0.529 (0.505, 0.552) | 0.051 (0.038, 0.067) | 0.996 (0.989, 0.998) | 0.144 (0.110, 0.174) | 0.096 (0.079, 0.117) |
| 0.95 | 66 | 0.503 (0.479, 0.526) | 0.050 (0.038, 0.066) | 0.998 (0.992, 0.999) | 0.149 (0.119, 0.176) | 0.095 (0.078, 0.116) |
| 0.85 | 72 | 0.694 (0.671, 0.716) | 0.074 (0.055, 0.099) | 0.996 (0.990, 0.998) | 0.203 (0.158, 0.244) | 0.137 (0.112, 0.167) |
| 0.90 | 72 | 0.672 (0.649, 0.694) | 0.071 (0.053, 0.095) | 0.996 (0.991, 0.999) | 0.199 (0.156, 0.237) | 0.132 (0.108, 0.161) |
| 0.95 | 72 | 0.475 (0.451, 0.499) | 0.048 (0.036, 0.064) | 0.997 (0.991, 0.999) | 0.140 (0.111, 0.166) | 0.091 (0.075, 0.111) |
| 0.85 | 78 | 0.757 (0.736, 0.778) | 0.092 (0.068, 0.123) | 0.995 (0.989, 0.998) | 0.233 (0.181, 0.280) | 0.166 (0.135, 0.202) |
| 0.90 | 78 | 0.693 (0.670, 0.715) | 0.077 (0.058, 0.103) | 0.996 (0.991, 0.999) | 0.212 (0.167, 0.252) | 0.143 (0.116, 0.174) |
| 0.95 | 78 | 0.449 (0.424, 0.473) | 0.047 (0.035, 0.062) | 0.997 (0.990, 0.999) | 0.133 (0.104, 0.160) | 0.089 (0.073, 0.109) |
| 0.85 | 84 | 0.729 (0.706, 0.750) | 0.085 (0.062, 0.114) | 0.995 (0.988, 0.998) | 0.215 (0.165, 0.261) | 0.154 (0.125, 0.189) |
| 0.90 | 84 | 0.662 (0.638, 0.686) | 0.073 (0.054, 0.098) | 0.996 (0.990, 0.998) | 0.198 (0.155, 0.238) | 0.135 (0.110, 0.164) |
| 0.95 | 84 | 0.455 (0.430, 0.481) | 0.049 (0.036, 0.065) | 0.997 (0.989, 0.999) | 0.137 (0.106, 0.164) | 0.092 (0.075, 0.113) |
| 0.85 | 90 | 0.743 (0.720, 0.765) | 0.093 (0.068, 0.125) | 0.994 (0.988, 0.997) | 0.230 (0.179, 0.279) | 0.168 (0.136, 0.205) |
| 0.90 | 90 | 0.572 (0.547, 0.598) | 0.061 (0.045, 0.082) | 0.995 (0.988, 0.998) | 0.164 (0.124, 0.199) | 0.114 (0.093, 0.140) |
| 0.95 | 90 | 0.443 (0.417, 0.469) | 0.050 (0.037, 0.066) | 0.997 (0.989, 0.999) | 0.136 (0.104, 0.163) | 0.094 (0.077, 0.115) |
| 0.85 | 96 | 0.707 (0.683, 0.731) | 0.086 (0.063, 0.116) | 0.994 (0.987, 0.997) | 0.214 (0.164, 0.261) | 0.156 (0.127, 0.191) |
| 0.90 | 96 | 0.632 (0.606, 0.657) | 0.073 (0.054, 0.098) | 0.995 (0.988, 0.998) | 0.192 (0.146, 0.231) | 0.135 (0.110, 0.165) |
| 0.95 | 96 | 0.443 (0.417, 0.469) | 0.052 (0.038, 0.069) | 0.997 (0.988, 0.999) | 0.139 (0.106, 0.167) | 0.098 (0.080, 0.120) |
| 0.85 | 102 | 0.664 (0.638, 0.689) | 0.077 (0.057, 0.105) | 0.993 (0.985, 0.997) | 0.192 (0.143, 0.236) | 0.142 (0.115, 0.175) |
| 0.90 | 102 | 0.503 (0.476, 0.530) | 0.056 (0.042, 0.076) | 0.994 (0.985, 0.998) | 0.143 (0.102, 0.178) | 0.106 (0.086, 0.131) |
| 0.95 | 102 | 0.008 (0.005, 0.015) | 0.031 (0.023, 0.041) | 0.846 (0.578, 0.957) | -0.069 (-0.187, 0.018) | 0.059 (0.048, 0.073) |
| 0.85 | 108 | 0.681 (0.655, 0.706) | 0.083 (0.061, 0.113) | 0.993 (0.985, 0.997) | 0.203 (0.149, 0.251) | 0.152 (0.122, 0.187) |
| 0.90 | 108 | 0.610 (0.583, 0.637) | 0.073 (0.053, 0.098) | 0.995 (0.987, 0.998) | 0.187 (0.141, 0.226) | 0.135 (0.109, 0.165) |
| 0.95 | 108 | 0.428 (0.400, 0.455) | 0.053 (0.039, 0.072) | 0.996 (0.986, 0.999) | 0.137 (0.103, 0.166) | 0.101 (0.082, 0.124) |
| 0.85 | 114 | 0.673 (0.645, 0.699) | 0.081 (0.059, 0.111) | 0.994 (0.985, 0.997) | 0.201 (0.149, 0.248) | 0.148 (0.119, 0.184) |
| 0.90 | 114 | 0.532 (0.503, 0.560) | 0.061 (0.045, 0.084) | 0.995 (0.986, 0.998) | 0.160 (0.119, 0.198) | 0.115 (0.092, 0.142) |
| 0.95 | 114 | 0.385 (0.358, 0.413) | 0.050 (0.036, 0.068) | 0.998 (0.988, 1.000) | 0.131 (0.100, 0.157) | 0.095 (0.076, 0.117) |
| 0.85 | 120 | 0.653 (0.625, 0.681) | 0.077 (0.056, 0.107) | 0.993 (0.984, 0.997) | 0.192 (0.139, 0.239) | 0.142 (0.113, 0.177) |
| 0.90 | 120 | 0.496 (0.467, 0.525) | 0.058 (0.042, 0.079) | 0.995 (0.985, 0.998) | 0.148 (0.106, 0.184) | 0.109 (0.087, 0.135) |
| 0.95 | 120 | 0.344 (0.317, 0.372) | 0.047 (0.035, 0.065) | 0.997 (0.986, 1.000) | 0.124 (0.094, 0.149) | 0.090 (0.073, 0.112) |
| 0.85 | 126 | 0.582 (0.552, 0.611) | 0.066 (0.047, 0.092) | 0.992 (0.982, 0.997) | 0.162 (0.110, 0.209) | 0.123 (0.098, 0.154) |
| 0.90 | 126 | 0.480 (0.451, 0.510) | 0.057 (0.041, 0.079) | 0.994 (0.983, 0.998) | 0.144 (0.102, 0.181) | 0.108 (0.086, 0.135) |
| 0.95 | 126 | 0.362 (0.334, 0.392) | 0.050 (0.036, 0.068) | 0.997 (0.986, 1.000) | 0.126 (0.094, 0.154) | 0.095 (0.076, 0.118) |
| 0.85 | 132 | 0.573 (0.542, 0.603) | 0.068 (0.048, 0.094) | 0.992 (0.981, 0.996) | 0.161 (0.109, 0.205) | 0.125 (0.100, 0.157) |
| 0.90 | 132 | 0.514 (0.483, 0.544) | 0.063 (0.046, 0.087) | 0.994 (0.984, 0.998) | 0.158 (0.113, 0.199) | 0.119 (0.095, 0.148) |
| 0.95 | 132 | 0.334 (0.306, 0.364) | 0.050 (0.036, 0.068) | 0.997 (0.984, 0.999) | 0.120 (0.090, 0.147) | 0.095 (0.076, 0.118) |
| 0.85 | 138 | 0.447 (0.417, 0.478) | 0.053 (0.038, 0.075) | 0.989 (0.974, 0.995) | 0.114 (0.065, 0.158) | 0.100 (0.079, 0.127) |
| 0.90 | 138 | 0.335 (0.306, 0.365) | 0.047 (0.034, 0.066) | 0.991 (0.974, 0.997) | 0.103 (0.060, 0.139) | 0.090 (0.071, 0.113) |
| 0.95 | 138 | 0.000 (0.000, 0.004) | 0.034 (0.024, 0.047) | 0.000 (0.000, 0.793) | -0.164 (-0.312, -0.144) | 0.066 (0.052, 0.082) |
| 0.85 | 144 | 0.404 (0.374, 0.436) | 0.048 (0.034, 0.068) | 0.987 (0.971, 0.995) | 0.095 (0.045, 0.139) | 0.091 (0.071, 0.116) |
| 0.90 | 144 | 0.228 (0.202, 0.255) | 0.040 (0.028, 0.056) | 0.987 (0.961, 0.995) | 0.061 (0.012, 0.099) | 0.076 (0.060, 0.097) |
| 0.95 | 144 | 0.051 (0.039, 0.066) | 0.035 (0.025, 0.048) | 0.980 (0.895, 0.996) | 0.018 (-0.041, 0.049) | 0.067 (0.053, 0.084) |
| 0.85 | 150 | 0.340 (0.310, 0.371) | 0.045 (0.032, 0.065) | 0.987 (0.968, 0.995) | 0.085 (0.037, 0.126) | 0.086 (0.067, 0.110) |
| 0.90 | 150 | 0.083 (0.067, 0.103) | 0.034 (0.024, 0.048) | 0.963 (0.895, 0.987) | -0.005 (-0.076, 0.054) | 0.066 (0.052, 0.084) |
| 0.95 | 150 | 0.025 (0.017, 0.037) | 0.034 (0.024, 0.048) | 0.958 (0.798, 0.993) | -0.006 (-0.086, 0.035) | 0.066 (0.052, 0.084) |
| 0.85 | 156 | 0.476 (0.443, 0.510) | 0.058 (0.040, 0.083) | 0.990 (0.976, 0.996) | 0.130 (0.077, 0.175) | 0.109 (0.085, 0.139) |
| 0.90 | 156 | 0.176 (0.152, 0.203) | 0.039 (0.027, 0.055) | 0.981 (0.945, 0.993) | 0.040 (-0.019, 0.083) | 0.075 (0.058, 0.095) |
| 0.95 | 156 | 0.058 (0.044, 0.075) | 0.036 (0.026, 0.051) | 0.980 (0.897, 0.997) | 0.015 (-0.047, 0.049) | 0.070 (0.055, 0.089) |
| 0.85 | 162 | 0.568 (0.534, 0.601) | 0.072 (0.050, 0.102) | 0.992 (0.979, 0.997) | 0.167 (0.110, 0.215) | 0.132 (0.103, 0.168) |
| 0.90 | 162 | 0.521 (0.488, 0.555) | 0.067 (0.047, 0.095) | 0.993 (0.980, 0.998) | 0.161 (0.108, 0.205) | 0.125 (0.098, 0.159) |
| 0.95 | 162 | 0.055 (0.041, 0.072) | 0.038 (0.027, 0.053) | 0.979 (0.889, 0.996) | 0.020 (-0.043, 0.053) | 0.072 (0.057, 0.092) |
| 0.85 | 168 | 0.782 (0.752, 0.809) | 0.132 (0.093, 0.186) | 0.994 (0.984, 0.998) | 0.287 (0.213, 0.356) | 0.230 (0.181, 0.288) |
| 0.90 | 168 | 0.596 (0.562, 0.629) | 0.079 (0.055, 0.111) | 0.994 (0.982, 0.998) | 0.190 (0.131, 0.240) | 0.145 (0.113, 0.183) |
| 0.95 | 168 | 0.525 (0.490, 0.559) | 0.072 (0.051, 0.101) | 0.998 (0.987, 1.000) | 0.185 (0.142, 0.223) | 0.134 (0.106, 0.169) |
| 0.85 | 174 | 0.685 (0.652, 0.717) | 0.097 (0.067, 0.138) | 0.992 (0.981, 0.997) | 0.222 (0.156, 0.283) | 0.174 (0.135, 0.221) |
| 0.90 | 174 | 0.596 (0.561, 0.630) | 0.080 (0.055, 0.113) | 0.994 (0.981, 0.998) | 0.191 (0.134, 0.240) | 0.146 (0.114, 0.186) |
| 0.95 | 174 | 0.539 (0.504, 0.574) | 0.075 (0.053, 0.106) | 0.998 (0.987, 1.000) | 0.192 (0.149, 0.233) | 0.140 (0.110, 0.176) |
| 0.85 | 180 | 0.682 (0.648, 0.715) | 0.100 (0.069, 0.142) | 0.992 (0.980, 0.997) | 0.224 (0.155, 0.287) | 0.179 (0.139, 0.227) |
| 0.90 | 180 | 0.666 (0.631, 0.699) | 0.099 (0.069, 0.140) | 0.994 (0.982, 0.998) | 0.229 (0.165, 0.286) | 0.178 (0.139, 0.225) |
| 0.95 | 180 | 0.536 (0.500, 0.572) | 0.078 (0.055, 0.110) | 0.997 (0.986, 1.000) | 0.195 (0.146, 0.235) | 0.144 (0.113, 0.182) |

**Table 2. Comparison of observed and expected proportions of deaths in the two worst performing models (60 hours, 72 hours) and the models from the first and last time periods for comparison.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk Intervals | Deaths | Patients in Risk Interval | Death Proportions | P values - Barnard Exact Test Difference of Proportions (1) |
| Lower Limit  | Upper Limit  | Observed | Predicted | Observed  | Predicted  |
| 6 Hours in ICU |
| 0.001 | 0.004 | 0 | 0.775 | 266 | 0.000 | 0.003 | 0.530 |
| 0.004 | 0.004 | 1 | 1.055 | 265 | 0.004 | 0.004 | 1.000 |
| 0.004 | 0.005 | 0 | 1.309 | 267 | 0.000 | 0.005 | 0.530 |
| 0.005 | 0.006 | 2 | 1.523 | 265 | 0.008 | 0.006 | 1.000 |
| 0.006 | 0.008 | 1 | 1.835 | 265 | 0.004 | 0.007 | 0.683 |
| 0.008 | 0.010 | 0 | 2.280 | 266 | 0.000 | 0.009 | 0.212 |
| 0.010 | 0.013 | 1 | 2.984 | 265 | 0.004 | 0.011 | 0.377 |
| 0.013 | 0.019 | 6 | 4.209 | 266 | 0.023 | 0.016 | 0.564 |
| 0.019 | 0.027 | 7 | 6.027 | 265 | 0.026 | 0.023 | 0.854 |
| 0.027 | 0.042 | 5 | 8.788 | 265 | 0.019 | 0.033 | 0.298 |
| 0.042 | 0.092 | 16 | 16.540 | 267 | 0.060 | 0.062 | 0.913 |
| 0.092 | 0.127 | 24 | 29.846 | 265 | 0.091 | 0.113 | 0.530 |
| 0.127 | 0.331 | 34 | 39.881 | 266 | 0.128 | 0.150 | 0.533 |
| 60 Hours in ICU |
| 0.005 | 0.005 | 0 | 1.373 | 274 | 0.000 | 0.005 | 0.530 |
| 0.005 | 0.007 | 0 | 1.647 | 273 | 0.000 | 0.006 | 0.212 |
| 0.007 | 0.009 | 1 | 2.173 | 273 | 0.004 | 0.008 | 0.683 |
| 0.009 | 0.014 | 4 | 3.274 | 273 | 0.015 | 0.012 | 0.794 |
| 0.014 | 0.027 | 6 | 5.222 | 273 | 0.022 | 0.019 | 0.839 |
| 0.027 | 0.098 | 14 | 14.045 | 274 | 0.051 | 0.051 | 1.000 |
| 0.098 | 0.299 | 26 | 40.562 | 274 | 0.095 | 0.148 | 0.054 |
| 72 Hours in ICU |
| 0.006 | 0.006 | 0 | 1.722 | 286 | 0.000 | 0.006 | 0.212 |
| 0.006 | 0.008 | 0 | 2.055 | 285 | 0.000 | 0.007 | 0.212 |
| 0.008 | 0.012 | 3 | 2.852 | 285 | 0.011 | 0.010 | 1.000 |
| 0.012 | 0.020 | 1 | 4.324 | 285 | 0.004 | 0.015 | 0.247 |
| 0.020 | 0.067 | 16 | 9.785 | 285 | 0.056 | 0.034 | 0.248 |
| 0.067 | 0.282 | 26 | 39.546 | 286 | 0.091 | 0.138 | 0.072 |
| 180 Hours in ICU |
| 0.009 | 0.011 | 0 | 2.707 | 257 | 0.000 | 0.011 | 0.096 |
| 0.011 | 0.022 | 4 | 3.724 | 256 | 0.016 | 0.015 | 1.000 |
| 0.022 | 0.538 | 26 | 25.951 | 257 | 0.101 | 0.101 | 1.000 |

(1). Manuscript references 19 – 22.

**Legend**. Observed and expected numbers of outcomes for the 2 worst performing time periods (60 hours, 72 hours) and the first and the last time periods for comparison. The statistical comparison for each risk interval is shown in the last column. The Hosmer-Lemeshow goodness-of-fit test significance levels resulting from the risk intervals are 0.418 for 6 hours in ICU, 0.073 for 60 hours in ICU, 0.003 for 72 hours in ICU, and 0.097 for 180 hours in ICU.

**Figure 1. Calibration plots for the two worst performing models (60 hours, 72 hours) and the models from the first and last time periods for comparison.**



**Figure 2. Receiver operating characteristic curves for the two worst performing models (60 hours, 72 hours) and the models from the first and last time periods for comparison.**

