**e-Table 1:** Results of **(A)** forward and **(B)** backwards stepwise regression using MIMIC-IV data for the with median BT as the main exposure and hospital mortality as the outcome.

# A

| Step | Exclusion | Covariate | AIC | BIC | adj.R-squared | P-val |
|---|---|---|---|---|---|---|
| **Step 0** | + | APS-III Score | 20185 | 20202 | 0.2535 | <0.0001 |
| | + | SOFA Score | 23670 | 23688 | 0.1245 | <0.0001 |
| | + | Vasopressor Use | 25238 | 25255 | 0.0666 | <0.0001 |
| | + | Charlson Score | 25606 | 25624 | 0.0529 | <0.0001 |
| | + | Temp Gap. | 26075 | 26093 | 0.0356 | <0.0001 |
| | + | Ventilation Use | 26204 | 26221 | 0.0308 | <0.0001 |
| | + | Age | 26410 | 26427 | 0.0232 | <0.0001 |
| | + | Dialysis Use | 26697 | 26714 | 0.0126 | <0.0001 |
| | + | Steroid Use | 26872 | 26890 | 0.0061 | <0.0001 |
| | + | Median Temp. | 26952 | 26969 | 0.0032 | <0.0001 |
| | + | Sex | 27029 | 27046 | 0.0003 | 0.0021 |
| | | <none> | 27036 | 27045 | 0 | NA |
| | | | | | | |
| **Step 1: + APS-III Score** | + | Charlson Score | 19589 | 19615 | 0.2756 | <0.0001 |
| | + | Age | 19741 | 19767 | 0.27 | <0.0001 |
| | + | Vasopressor Use | 20016 | 20042 | 0.2598 | <0.0001 |
| | + | Steroid Use | 20118 | 20144 | 0.256 | <0.0001 |
| | + | Ventilation Use | 20132 | 20158 | 0.2555 | <0.0001 |
| | + | Median Temp. | 20162 | 20188 | 0.2544 | <0.0001 |
| | + | Sex | 20171 | 20197 | 0.254 | <0.0001 |
| | + | Temp Gap. | 20174 | 20200 | 0.2539 | 0.0003 |
| | + | Dialysis Use | 20178 | 20204 | 0.2538 | 0.0032 |
| | + | SOFA Score | 20178 | 20204 | 0.2538 | 0.0031 |
| | | <none> | 20185 | 20202 | 0.2535 | NA |
| | | | | | | |
| **Step 2: + Charlson Score** | + | Vasopressor Use | 19383 | 19418 | 0.2833 | <0.0001 |
| | + | Age | 19480 | 19514 | 0.2797 | <0.0001 |
| | + | Ventilation Use | 19480 | 19514 | 0.2797 | <0.0001 |
| | + | Steroid Use | 19537 | 19571 | 0.2776 | <0.0001 |
| | + | Temp Gap. | 19538 | 19573 | 0.2775 | <0.0001 |
| | + | Dialysis Use | 19572 | 19606 | 0.2763 | <0.0001 |
| | + | Sex | 19572 | 19607 | 0.2763 | <0.0001 |
| | + | SOFA Score | 19587 | 19622 | 0.2757 | 0.0523 |
| | + | Median Temp. | 19588 | 19623 | 0.2757 | 0.1263 |
| | | <none> | 19589 | 19615 | 0.2756 | NA |
| | - | APS-III Score | 25606 | 25624 | 0.0529 | <0.0001 |
| | | | | | | |
| **Step 3: + Vasopressor Use** | + | Age | 19261 | 19304 | 0.2878 | <0.0001 |
| | + | Ventilation Use | 19316 | 19359 | 0.2858 | <0.0001 |
| | + | Dialysis Use | 19346 | 19390 | 0.2847 | <0.0001 |
| | + | Steroid Use | 19347 | 19391 | 0.2846 | <0.0001 |
| | + | Temp Gap. | 19354 | 19397 | 0.2844 | <0.0001 |
| | + | Sex | 19365 | 19408 | 0.284 | <0.0001 |
| | + | SOFA Score | 19374 | 19418 | 0.2836 | 0.0011 |
| | + | Median Temp. | 19383 | 19426 | 0.2833 | 0.1499 |
| | | <none> | 19383 | 19418 | 0.2833 | NA |
| | - | Charlson Score | 20016 | 20042 | 0.2598 | <0.0001 |
| | - | APS-III Score | 23870 | 23896 | 0.1172 | <0.0001 |
| | | | | | | |
| **Step 4: + Age** | + | Ventilation Use | 19187 | 19239 | 0.2906 | <0.0001 |
| | + | Steroid Use | 19211 | 19263 | 0.2897 | <0.0001 |
| | + | Temp Gap. | 19227 | 19279 | 0.2892 | <0.0001 |
| | + | Dialysis Use | 19239 | 19291 | 0.2887 | <0.0001 |
| | + | Sex | 19252 | 19304 | 0.2882 | 0.0011 |
| | + | SOFA Score | 19258 | 19310 | 0.288 | 0.0333 |
| | | <none> | 19261 | 19304 | 0.2878 | NA |
| | + | Median Temp. | 19263 | 19315 | 0.2878 | 0.8847 |
| | - | Vasopressor Use | 19480 | 19514 | 0.2797 | <0.0001 |
| | - | Charlson Score | 19536 | 19571 | 0.2776 | <0.0001 |
| | - | APS-III Score | 23800 | 23835 | 0.1199 | <0.0001 |

# A cont.

| Step | Exclusion | Covariate | AIC | BIC | adj.R-squared | P-val |
|---|---|---|---|---|---|---|
| **Step 5: + Ventilation Use** | + | Steroid Use | 19137 | 19197 | 0.2926 | <0.0001 |
| | + | Dialysis Use | 19165 | 19226 | 0.2915 | <0.0001 |
| | + | Temp Gap. | 19171 | 19232 | 0.2913 | <0.0001 |
| | + | SOFA Score | 19174 | 19235 | 0.2912 | 0.0001 |
| | + | Sex | 19177 | 19237 | 0.2911 | 0.0005 |
| | | <none> | 19187 | 19239 | 0.2906 | NA |
| | + | Median Temp. | 19187 | 19248 | 0.2907 | 0.1600 |
| | - | Age | 19316 | 19359 | 0.2858 | <0.0001 |
| | - | Vasopressor Use | 19361 | 19405 | 0.2841 | <0.0001 |
| | - | Charlson Score | 19484 | 19528 | 0.2796 | <0.0001 |
| | - | APS-III Score | 23320 | 23364 | 0.1377 | <0.0001 |
| **Step 6: + Steroid Use** | + | Dialysis Use | 19114 | 19183 | 0.2935 | <0.0001 |
| | + | Temp Gap. | 19119 | 19188 | 0.2933 | <0.0001 |
| | + | SOFA Score | 19125 | 19195 | 0.293 | 0.0003 |
| | + | Sex | 19129 | 19198 | 0.2929 | 0.0020 |
| | | <none> | 19137 | 19197 | 0.2926 | NA |
| | + | Median Temp. | 19138 | 19207 | 0.2926 | 0.3586 |
| | - | Ventilation Use | 19211 | 19263 | 0.2897 | <0.0001 |
| | - | Age | 19280 | 19332 | 0.2872 | <0.0001 |
| | - | Vasopressor Use | 19294 | 19346 | 0.2867 | <0.0001 |
| | - | Charlson Score | 19414 | 19466 | 0.2822 | <0.0001 |
| | - | APS-III Score | 23244 | 23296 | 0.1406 | <0.0001 |
| **Step 7: + Dialysis Use** | + | Temp Gap. | 19095 | 19173 | 0.2942 | <0.0001 |
| | + | Sex | 19106 | 19185 | 0.2938 | 0.0025 |
| | + | SOFA Score | 19109 | 19187 | 0.2937 | 0.0104 |
| | | <none> | 19114 | 19183 | 0.2935 | NA |
| | + | Median Temp. | 19114 | 19192 | 0.2935 | 0.1695 |
| | - | Steroid Use | 19165 | 19226 | 0.2915 | <0.0001 |
| | - | Ventilation Use | 19188 | 19249 | 0.2906 | <0.0001 |
| | - | Age | 19240 | 19301 | 0.2887 | <0.0001 |
| | - | Vasopressor Use | 19285 | 19345 | 0.2871 | <0.0001 |
| | - | Charlson Score | 19405 | 19466 | 0.2826 | <0.0001 |
| | - | APS-III Score | 23193 | 23254 | 0.1425 | <0.0001 |
| **Step 8: + Temp Gap.** | + | Sex | 19088 | 19175 | 0.2945 | 0.0024 |
| | + | SOFA Score | 19090 | 19177 | 0.2945 | 0.0068 |
| | + | Median Temp. | 19094 | 19181 | 0.2943 | 0.0700 |
| | | <none> | 19095 | 19173 | 0.2942 | NA |
| | - | Dialysis Use | 19119 | 19188 | 0.2933 | <0.0001 |
| | - | Steroid Use | 19148 | 19218 | 0.2922 | <0.0001 |
| | - | Ventilation Use | 19151 | 19221 | 0.2921 | <0.0001 |
| | - | Age | 19225 | 19294 | 0.2893 | <0.0001 |
| | - | Vasopressor Use | 19256 | 19325 | 0.2882 | <0.0001 |
| | - | Charlson Score | 19399 | 19468 | 0.2829 | <0.0001 |
| | - | APS-III Score | 22810 | 22880 | 0.1567 | <0.0001 |
| **Step 9: + Sex** | + | SOFA Score | 19084 | 19180 | 0.2947 | 0.0150 |
| | + | Median Temp. | 19087 | 19182 | 0.2946 | 0.0713 |
| | | <none> | 19088 | 19175 | 0.2945 | NA |
| | - | Temp Gap. | 19106 | 19185 | 0.2938 | <0.0001 |
| | - | Dialysis Use | 19111 | 19190 | 0.2936 | <0.0001 |
| | - | Steroid Use | 19138 | 19216 | 0.2926 | <0.0001 |
| | - | Ventilation Use | 19145 | 19223 | 0.2924 | <0.0001 |
| | - | Age | 19208 | 19286 | 0.29 | <0.0001 |
| | - | Vasopressor Use | 19249 | 19327 | 0.2885 | <0.0001 |
| | - | Charlson Score | 19398 | 19476 | 0.283 | <0.0001 |
| | - | APS-III Score | 22794 | 22872 | 0.1573 | <0.0001 |
| **Step 10: + SOFA Score** | + | Median Temp. | 19082 | 19187 | 0.2948 | 0.0574 |
| | | <none> | 19084 | 19180 | 0.2947 | NA |
| | - | Sex | 19090 | 19177 | 0.2945 | 0.0052 |
| | - | Dialysis Use | 19101 | 19188 | 0.294 | <0.0001 |
| | - | Temp Gap. | 19103 | 19190 | 0.294 | <0.0001 |
| | - | Steroid Use | 19134 | 19220 | 0.2928 | <0.0001 |
| | - | Ventilation Use | 19146 | 19233 | 0.2924 | <0.0001 |
| | - | Age | 19201 | 19288 | 0.2903 | <0.0001 |
| | - | Vasopressor Use | 19249 | 19335 | 0.2886 | <0.0001 |
| | - | Charlson Score | 19399 | 19486 | 0.283 | <0.0001 |
| | - | APS-III Score | 21876 | 21963 | 0.1914 | <0.0001 |

**B**

| | Exclusion | Covariate | AIC | BIC | adj.R-squared | P-val |
|---|---|---|---|---|---|---|
| | | \<none\> | 19082 | 19187 | 0.2948 | |
| | – | Median Temp. | 19084 | 19180 | 0.2947 | 0.0574 |
| | – | SOFA Score | 19087 | 19182 | 0.2946 | 0.0122 |
| | – | Sex | 19088 | 19184 | 0.2946 | 0.0053 |
| | – | Dialysis Use | 19101 | 19196 | 0.2941 | \<0.0001 |
| **Step 0** | – | Temp Gap. | 19103 | 19198 | 0.294 | \<0.0001 |
| | – | Steroid Use. | 19130 | 19225 | 0.293 | \<0.0001 |
| | – | Ventilation Use | 19147 | 19242 | 0.2924 | \<0.0001 |
| | – | Age | 19192 | 19288 | 0.2907 | \<0.0001 |
| | – | Vasopressor Use | 19246 | 19342 | 0.2887 | \<0.0001 |
| | – | Charlson Score | 19396 | 19491 | 0.2832 | \<0.0001 |
| | – | APS-III Score | 21860 | 21955 | 0.192 | \<0.0001 |