Supplement table 1: Stepwise additive multivariable Cox regression modeling showing hazard ratio for length of stay, event classified as discharge. Patients who died and hospital acquired cases were excluded from analysis

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|  | | | Confidence interval 95% | |  |
| Model | Parameter | Hazard Ratio | Lower | Upper | P value |
| 1 | Intervention only | 1.261 | 1.079 | 1.473 | 0.004 |
| 2 | Intervention | 1.220 | 1.043 | 1.428 | 0.013 |
| Female gender | 0.987 | 0.847 | 1.150 | 0.863 |
| Age ≥ 65 | 0.721 | 0.615 | 0.847 | <0.001 |
| 3 | Intervention | 1.212 | 1.035 | 1.418 | 0.017 |
| Female gender | 0.964 | 0.826 | 1.125 | 0.643 |
| Age ≥ 65 | 0.806 | 0.80 | 0.956 | 0.013 |
| CVD | 0.796 | 0.656 | 0.967 | 0.022 |
| DM | 0.892 | 0.751 | 1.059 | 0.191 |
| CKD | 0.813 | 0.646 | 1.022 | 0.076 |
| Pulmonary disease | 0.909 | 0.727 | 1.136 | 0.402 |
| 4 | Intervention | 1.230 | 1.051 | 1.441 | 0.010 |
| Female gender | 0.984 | 0.842 | 1.149 | 0.836 |
| Age ≥ 65 | 0.827 | 0.697 | 0.982 | 0.031 |
| CVD | 0.788 | 0.649 | 0.957 | 0.016 |
| DM | 0.904 | 0.761 | 1.074 | 0.252 |
| CKD | 0.815 | 0.648 | 1.025 | 0.080 |
| Pulmonary disease | 0.927 | 0.741 | 1.159 | 0.506 |
| SAT< 90% | 0.775 | 0.639 | 0.941 | 0.010 |
| Temp ≥ 38.2C | 1.044 | 0.888 | 1.227 | 0.601 |
| 5 | Intervention | 1.234 | 1.010 | 1.508 | 0.040 |
| Female gender | 0.940 | 0.773 | 1.143 | 0.534 |
| Age ≥ 65 | 0.897 | 0.730 | 1.101 | 0.297 |
| CVD | 0.827 | 0.653 | 1.048 | 0.116 |
| DM | 0.792 | 0.641 | 0.977 | 0.030 |
| CKD | 0.840 | 0.642 | 1.099 | 0.203 |
| Pulmonary disease | 0.959 | 0.722 | 1.274 | 0.773 |
| SAT< 90% | 0.733 | 0.579 | 0.928 | 0.010 |
| Temp ≥ 38.2C | 1.020 | 0.838 | 1.243 | 0.840 |
| WBC ≥ 12K | 1.080 | 0.794 | 1.469 | 0.625 |
| CRP ≥ 50 | 0.760 | 0.626 | 0.922 | 0.005 |