

Supplementary Table 1: Correlations

| Correlation | | Tube Size | Albumin Plural | WBC Plural | WBC Serum | ESR | Albumin serum | Culture | Complications | Hospital Stay | ICU stay |
|----------------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Age | r | 0.432 | -0.309 | 0.020 | 0.072 | -0.299 | -0.125 | 0.174 | 0.112 | -0.294 | -0.173 |
| | P-value | <0.001* | 0.032* | 0.894 | 0.626 | 0.039* | 0.398 | 0.236 | 0.448 | 0.045* | 0.241 |
| Gender | r | -0.131 | -0.119 | -0.070 | -0.147 | 0.327 | -0.221 | -0.077 | 0.238 | 0.093 | -0.048 |
| | P-value | 0.373 | 0.422 | 0.635 | 0.318 | 0.023* | 0.131 | 0.603 | 0.104 | 0.533 | 0.746 |
| DM | r | 0.155 | -0.265 | 0.057 | -0.007 | -0.227 | -0.099 | 0.004 | 0.036 | -0.379 | -0.283 |
| | P-value | 0.294 | 0.069 | 0.701 | 0.962 | 0.121 | 0.501 | 0.979 | 0.806 | 0.009* | 0.051 |
| Renal failure | r | 0.076 | -0.531 | -0.044 | -0.051 | -0.193 | -0.456 | 0.328 | 0.234 | -0.105 | -0.134 |
| | P-value | 0.606 | <0.001* | 0.764 | 0.733 | 0.189 | <0.001* | 0.023* | 0.110 | 0.481 | 0.363 |
| Obesity | r | 0.191 | -0.114 | -0.268 | -0.216 | -0.319 | 0.031 | 0.054 | 0.213 | -0.207 | -0.142 |
| | P-value | 0.195 | 0.439 | 0.065 | 0.141 | 0.027* | 0.835 | 0.717 | 0.146 | 0.163 | 0.335 |
| Smoking | r | 0.444 | -0.402 | 0.024 | 0.070 | 0.066 | -0.306 | 0.101 | 0.197 | 0.011 | 0.016 |
| | P-value | 0.002* | 0.005* | 0.870 | 0.638 | 0.656 | 0.035* | 0.493 | 0.179 | 0.944 | 0.914 |
| COPD | r | -0.023 | -0.047 | -0.021 | -0.129 | -0.174 | -0.112 | 0.150 | 0.577 | 0.133 | 0.034 |
| | P-value | 0.878 | 0.752 | 0.888 | 0.383 | 0.236 | 0.449 | 0.310 | <0.001* | 0.374 | 0.819 |
| Neoplasm | r | 0.170 | -0.366 | 0.196 | 0.230 | 0.737 | -0.447 | 0.108 | -0.067 | -0.124 | 0.042 |
| | P-value | 0.247 | 0.010* | 0.182 | 0.116 | <0.001* | 0.001* | 0.465 | 0.653 | 0.407 | 0.777 |
| Corticosteroid | r | -0.023 | -0.047 | -0.021 | -0.129 | -0.174 | -0.112 | 0.150 | 0.577 | 0.133 | 0.034 |
| | P-value | 0.878 | 0.752 | 0.888 | 0.383 | 0.236 | 0.449 | 0.310 | <0.001* | 0.374 | 0.819 |
| Tube Size | r | 1.000 | -0.127 | 0.070 | -0.005 | -0.126 | -0.060 | -0.021 | -0.092 | -0.121 | -0.052 |
| | P-value | | 0.390 | 0.636 | 0.975 | 0.392 | 0.685 | 0.886 | 0.536 | 0.417 | 0.724 |
| Albumin Plural | r | -0.127 | 1.000 | -0.120 | -0.193 | -0.309 | 0.859 | -0.426 | -0.091 | -0.094 | -0.222 |
| | P-value | 0.390 | | 0.419 | 0.189 | 0.032* | <0.001* | 0.003* | 0.539 | 0.528 | 0.130 |
| WBC Plural | r | 0.070 | -0.120 | 1.000 | 0.839 | 0.249 | -0.061 | 0.640 | -0.069 | 0.342 | 0.459 |
| | P-value | 0.636 | 0.419 | | <0.001* | 0.088 | 0.679 | <0.001* | 0.643 | 0.019* | 0.001* |
| WBC Serum | r | -0.005 | -0.193 | 0.839 | 1.000 | 0.299 | -0.065 | 0.708 | -0.129 | 0.329 | 0.513 |
| | P-value | 0.975 | 0.189 | <0.001* | | 0.039* | 0.661 | <0.001* | 0.381 | 0.024* | <0.001* |
| ESR | r | -0.126 | -0.309 | 0.249 | 0.299 | 1.000 | -0.347 | 0.192 | 0.036 | 0.284 | 0.366 |
| | P-value | 0.392 | 0.032* | 0.088 | 0.039* | | 0.016* | 0.190 | 0.807 | 0.053 | 0.011* |
| Albumin serum | r | -0.060 | 0.859 | -0.061 | -0.065 | -0.347 | 1.000 | -0.274 | -0.102 | -0.153 | -0.179 |
| | P-value | 0.685 | <0.001* | 0.679 | 0.661 | 0.016* | | 0.060 | 0.490 | 0.305 | 0.223 |
| Culture | r | -0.021 | -0.426 | 0.640 | 0.708 | 0.192 | -0.274 | 1.000 | 0.281 | 0.384 | 0.527 |
| | P-value | 0.886 | 0.003* | <0.001* | <0.001* | 0.190 | 0.060 | | 0.053 | 0.008* | <0.001* |
| Complications | r | -0.092 | -0.091 | -0.069 | -0.129 | 0.036 | -0.102 | 0.281 | 1.000 | 0.294 | 0.087 |
| | P-value | 0.536 | 0.539 | 0.643 | 0.381 | 0.807 | 0.490 | 0.053 | | 0.045* | 0.557 |
| Hospital stay | r | -0.121 | -0.094 | 0.342 | 0.329 | 0.284 | -0.153 | 0.384 | 0.294 | 1.000 | 0.831 |
| | P-value | 0.417 | 0.528 | 0.019* | 0.024* | 0.053 | 0.305 | 0.008* | 0.045* | | <0.001* |
| ICU stay | r | -0.052 | -0.222 | 0.459 | 0.513 | 0.366 | -0.179 | 0.527 | 0.087 | 0.831 | 1.000 |
| | P-value | 0.724 | 0.130 | 0.001* | <0.001* | 0.011* | 0.223 | <0.001* | 0.557 | <0.001* | |

DM: Diabetes mellitus, COPD: Chronic obstructive pulmonary disease, TD: Tube drainage; WBC: white blood cell, ESR: Erythrocyte Sedimentation Rate; ICU: Intensive care unit; *P-value indicates a statistically significant Spearman correlation