**Supplementary Digital Content 1**

We researched the cost determinants using a general linear model with log transformation. First, we employed a univariate linear model with log transformation to identify the predictors. Every predictor with a p-value lower than 0.1 was then included in the multivariate linear analysis. Target attainment was included as the most important factor in the multivariate model.

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| **Univariate** | **OR (90% CI)** | **p-value** |  | **OR (95% CI)** | **p-value** |
| Target attainment | 1.15 (0.99-1.33) | 0.126 |  | 0.99 (0.85-1.01) | 0.871 |
| Age | 0.99 (0.99-1) | **0.098** |  | 1.00 (0.99 - 1.00) | 0.228 |
| Female gender | 0.97 (0.83-1.13) | 0.742 |  |  |  |
| BMI | 1 (0.98-1.01) | 0.717 |  |  |  |
| APACHE score | 1.01 (0.99-1.02) | 0.424 |  |  |  |
| SOFA score | 1.01 (0.99-1.03) | 0.277 |  |  |  |
| Albumin | 0.98 (0.98-0.99) | **0.007** |  | 1.00 (0.99 - 1.01) | 0.537 |
| Creatinine | 1 (1-1) | 0.671 |  |  |  |
| WBC | 1 (0.99-1.01) | 0.670 |  |  |  |
| CRP | 1 (1-1) | 0.599 |  |  |  |
| Sepsis | 0.99 (0.81-1.21) | 0.914 |  |  |  |
| RRT | 1.89 (1.61-2.22) | **<0.001** |  | 1.70 (1.38 - 2.09) | **<0.001** |
| Transfusion | 1.37 (1.18-1.58) | **<0.001** |  | 1.21 (1.02 - 2.09 | **0.03** |
|  |  |  |  | McFadden R2 = 0.61 | |

BMI, body mass index; APACHE, Acute Physiology And Chronic Health Evaluation version 2; SOFA, Sequential Organ Failure Assessment; WBC, white blood cells; CRP, C-reactive protein; RRT, renal replacement therapy.