

**Table S1** Linear regression model for surgical time—without interaction terms

| Predictor                | Estimate | Std. Error | t-value | P value |
|--------------------------|----------|------------|---------|---------|
| Intercept                | 1.267    | 0.683      | 1.856   | 0.069   |
| Surgical group (robotic) | −0.297   | 0.222      | −1.339  | 0.186   |
| Age                      | −0.001   | 0.006      | −0.221  | 0.826   |
| Gender (M)               | 0.244    | 0.185      | 1.315   | 0.194   |
| ASA2                     | −0.152   | 0.454      | −0.336  | 0.738   |
| ASA3                     | −0.172   | 0.426      | −0.402  | 0.689   |
| BMI                      | 0.014    | 0.012      | 1.209   | 0.232   |
| Diabetes (yes)           | 0.212    | 0.257      | 0.823   | 0.414   |
| HTN (yes)                | −0.013   | 0.212      | −0.063  | 0.950   |

Model fit:  $R^2=0.139$ , adjusted  $R^2=0.007$  F-statistic =1.051, P value =0.412. ASA, American Society of Anaesthesiologists; BMI, body mass index; HTN, hypertension; M, male.

**Table S2** Linear regression model for surgical time—with interaction terms

| Predictor                | Estimate | Std. Error | t-value | P value |
|--------------------------|----------|------------|---------|---------|
| Intercept                | 0.551    | 0.834      | 0.660   | 0.513   |
| Surgical group (robotic) | 1.647    | 1.567      | 1.051   | 0.299   |
| Age                      | 0.003    | 0.008      | 0.357   | 0.723   |
| Gender (M)               | 0.249    | 0.223      | 1.120   | 0.269   |
| ASA2                     | −0.200   | 0.573      | −0.348  | 0.729   |
| ASA3                     | −0.373   | 0.538      | −0.693  | 0.492   |
| BMI                      | 0.036    | 0.015      | 2.420   | 0.020*  |
| Diabetes (yes)           | 0.399    | 0.298      | 1.339   | 0.187   |
| HTN (yes)                | −0.242   | 0.270      | −0.894  | 0.376   |
| Surgical group (robotic) |          |            |         |         |
| Age                      | −0.009   | 0.016      | −0.588  | 0.560   |
| Gender (M)               | 0.174    | 0.481      | 0.361   | 0.720   |
| ASA2                     | 0.024    | 1.053      | 0.023   | 0.982   |
| ASA3                     | 0.729    | 0.938      | 0.777   | 0.441   |
| BMI                      | −0.066   | 0.030      | −2.232  | 0.031*  |
| Diabetes (yes)           | −0.170   | 0.834      | −0.204  | 0.840   |
| HTN (yes)                | 0.053    | 0.606      | 0.088   | 0.930   |

Model fit:  $R^2=0.250$ , adjusted  $R^2=-0.0002$ , F-statistic =0.999, P value =0.473. \*, significant at  $P<0.05$ . ASA, American Society of Anaesthesiologists; BMI, body mass index; HTN, hypertension; M, male.

**Table S3** Linear regression model for length of stay—without interaction terms

| Predictor                | Estimate | Std. Error | t-value | P value |
|--------------------------|----------|------------|---------|---------|
| Intercept                | 1.954    | 1.942      | 1.006   | 0.319   |
| Surgical group (robotic) | −0.867   | 0.631      | −1.374  | 0.175   |
| Age                      | −0.003   | 0.018      | −0.155  | 0.878   |
| Gender (M)               | −0.534   | 0.527      | −1.012  | 0.316   |
| ASA2                     | 0.263    | 1.291      | 0.204   | 0.839   |
| ASA3                     | 0.532    | 1.213      | 0.439   | 0.663   |
| BMI                      | −0.000   | 0.033      | −0.015  | 0.988   |
| Diabetes (yes)           | 1.638    | 0.731      | 2.241   | 0.029*  |
| HTN (yes)                | 0.529    | 0.603      | 0.878   | 0.384   |

Model fit:  $R^2=0.233$ , adjusted  $R^2=0.114$ , F-statistic =1.969, P value =0.069. \*, significant at  $P<0.05$ . ASA, American Society of Anaesthesiologists; BMI, body mass index; HTN, hypertension; M, male.

**Table S4** Linear regression model for length of stay—with interaction terms

| Predictor                | Estimate | Std. Error | t-value | P value |
|--------------------------|----------|------------|---------|---------|
| Intercept                | 1.980    | 2.510      | 0.789   | 0.434   |
| Surgical group (robotic) | −0.075   | 4.717      | −0.016  | 0.987   |
| Age                      | −0.001   | 0.024      | −0.059  | 0.953   |
| Gender (M)               | −0.480   | 0.670      | −0.717  | 0.477   |
| ASA2                     | −0.014   | 1.723      | −0.008  | 0.994   |
| ASA3                     | 0.512    | 1.620      | 0.316   | 0.753   |
| BMI                      | −0.006   | 0.044      | −0.131  | 0.897   |
| Diabetes (yes)           | 1.409    | 0.897      | 1.572   | 0.123   |
| HTN (yes)                | 0.914    | 0.814      | 1.123   | 0.268   |
| Surgical group (robotic) |          |            |         |         |
| Age                      | 0.016    | 0.048      | 0.334   | 0.740   |
| Gender (M)               | 0.116    | 1.447      | 0.080   | 0.937   |
| ASA2                     | 0.184    | 3.170      | 0.058   | 0.954   |
| ASA3                     | −0.368   | 2.823      | −0.130  | 0.897   |
| BMI                      | −0.022   | 0.089      | −0.245  | 0.808   |
| Diabetes (yes)           | −0.051   | 2.511      | −0.020  | 0.984   |
| HTN (yes)                | −1.601   | 1.824      | −0.878  | 0.385   |

Model fit:  $R^2=0.251$ , adjusted  $R^2=0.002$ , F-statistic =1.008, P value =0.465. ASA, American Society of Anaesthesiologists; BMI, body mass index; HTN, hypertension; M, male.