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| **Supplementary Table 1.** Linear regression analysis of operative time | | | | | | | |
| Items | Univariate Analysis | | | Multivariate Analysis | | | |
| B | 95%CI | *P* | B | 95%CI | *P* | | |
| Gender  Age  BMI  CVD  Hypertension  Diabetes  Dyslipidemia  ASA score  R score  E score  N score  L score  P score  Stranding | 20.219  0.779  4.806  34.829  17.175  5.141  15.342  25.869  32.214  -5.082  16.780  2.620  28.321  14.363 | 3.654–36.783  0.183–1.375  2.802–6.810  8.227–61.431  1.149–33.201  -15.344–25.625  -0.352–31.037  10.750–40.989  10.929–53.499  -17.528–7.363  6.515–27.046  -5.920–11.161  18.503–38.138  6.478–22.248 | **0.017**  **0.011**  **<0.001**  **0.011**  **0.036**  0.621  0.055  **0.001**  **0.003**  0.421  **0.002**  0.545  **<0.001**  **<0.001** | 14.743  0.130  1.723  17.319  3.779  15.268  24.753  10.183  16.536  -0.195 | -1.082–30.568  -0.523–0.782  -0.454–3.899  -7.137–41.775  -11.339–18.897  -0.837–31.373  5.163–44.344  0.784–19.582  3.436–29.636  -9.588–9.199 | | 0.068  0.695  0.120  0.164  0.622  0.063  **0.014**  **0.034**  **0.014**  0.967 |
| BMI, body mass index; CVD, cardiovascular disease; P score, posterior perinephric fat thickness. | | | | | | | |

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| **Supplementary Table 2.** Linear regression analysis of estimated blood loss | | | | | | |
| Items | Univariate Analysis | | | Multivariate Analysis | | |
| B | 95%CI | *P* | B | 95%CI | *P* |
| Gender  Age  BMI  CVD  Hypertension  Diabetes  Dyslipidemia  ASA score  R score  E score  N score  L score  P score  Stranding | 19.057  1.042  2.610  8.086  23.365  -3.051  8.899  10.111  42.043  3.090  17.212  4.109  19.280  5.765 | -6.649–44.763  0.123–1.961  -0.651–5.871  -33.571–49.743  -1.298–48.029  -34.501–28.398  -15.424–33.222  -13.863–34.084  9.129–74.956  -16.038–22.219  1.175–33.249  -8.995–17.212  3.015–35.545  -6.789–18.319 | 0.145  **0.027**  0.116  0.702  0.063  0.848  0.471  0.406  **0.013**  0.750  **0.036**  0.537  **0.020**  0.366 | 0.836  34.964  11.727  11.889 | -0.104–1.776  1.835–68.093  -4.359–27.814  -4.920–28.699 | 0.081  **0.039**  0.152  0.164 |
| BMI, body mass index; CVD, cardiovascular disease; P score, posterior perinephric fat thickness. | | | | | | |

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| **Supplementary Table 3.** Logistic regression analysis of MIC achievement | | | | | | |
| Items | Univariate Analysis | | | Multivariate Analysis | | |
| OR | 95%CI | *P* | OR | 95%CI | *P* |
| Gender  Age  BMI  CVD  Hypertension  Diabetes  Dyslipidemia  ASA score  R score  E score  N score  L score  P score  Stranding | 0.824  1.003  0.983  2.189  0.496  0.421  0.548  1.189  0.221  1.035  0.569  0.689  0.776  0.995 | 0.387–1.752  0.976–1.031  0.892–1.085  0.713–6.726  0.223–1.104  0.592–3.510  0.256–1.175  0.580–2.439  0.049–0.985  0.588–1.823  0.363–0.893  0.464–1.025  0.468–1.288  0.685–1.446 | 0.614  0.830  0.737  0.171  0.086  0.421  0.122  0.637  **0.048**  0.904  **0.014**  0.066  0.326  0.981 | 0.279  0.627 | 0.061–1.273  0.397–0.992 | 0.099  **0.046** |
| MIC, margin, ischemia and complications; BMI, body mass index; CVD, cardiovascular disease; P score, posterior perinephric fat thickness. | | | | | | |