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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* |
| GenderAgeBMICVDHypertensionDiabetesDyslipidemia ASA scoreR scoreE scoreN scoreL scoreP score Stranding | 20.2190.7794.80634.82917.1755.14115.34225.86932.214-5.08216.7802.62028.32114.363 | 3.654–36.7830.183–1.3752.802–6.8108.227–61.4311.149–33.201-15.344–25.625-0.352–31.03710.750–40.98910.929–53.499-17.528–7.3636.515–27.046-5.920–11.16118.503–38.1386.478–22.248 | **0.017****0.011****<0.001****0.011****0.036**0.6210.055**0.001****0.003**0.421**0.002**0.545**<0.001****<0.001** | 14.7430.1301.72317.3193.77915.26824.75310.18316.536-0.195 | -1.082–30.568-0.523–0.782-0.454–3.899-7.137–41.775-11.339–18.897-0.837–31.3735.163–44.3440.784–19.5823.436–29.636-9.588–9.199 | 0.0680.6950.1200.1640.6220.063**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* |
| GenderAgeBMICVDHypertensionDiabetesDyslipidemia ASA scoreR scoreE scoreN scoreL scoreP score Stranding | 19.0571.0422.6108.08623.365-3.0518.89910.11142.0433.09017.2124.10919.2805.765 | -6.649–44.7630.123–1.961-0.651–5.871-33.571–49.743-1.298–48.029-34.501–28.398-15.424–33.222-13.863–34.0849.129–74.956-16.038–22.2191.175–33.249-8.995–17.2123.015–35.545-6.789–18.319 | 0.145**0.027**0.1160.7020.0630.8480.4710.406**0.013**0.750**0.036**0.537**0.020**0.366 | 0.83634.96411.72711.889 | -0.104–1.7761.835–68.093-4.359–27.814-4.920–28.699 | 0.081**0.039**0.1520.164 |
| 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* |
| GenderAgeBMICVDHypertensionDiabetesDyslipidemia ASA scoreR scoreE scoreN scoreL scoreP score Stranding | 0.8241.0030.9832.1890.4960.4210.5481.1890.2211.0350.5690.6890.7760.995 | 0.387–1.7520.976–1.0310.892–1.0850.713–6.7260.223–1.1040.592–3.5100.256–1.1750.580–2.4390.049–0.9850.588–1.8230.363–0.8930.464–1.0250.468–1.2880.685–1.446 | 0.6140.8300.7370.1710.0860.4210.1220.637**0.048**0.904**0.014**0.0660.3260.981 | 0.2790.627 | 0.061–1.2730.397–0.992 | 0.099**0.046** |
| MIC, margin, ischemia and complications; BMI, body mass index; CVD, cardiovascular disease; P score, posterior perinephric fat thickness. |