### Table S1 Univariate analysis of the risk factor(s) for vasculogenic ED event

| Characteristics          | Mean ±SD/N (%) | OR   | 95% CI     | P value |
|--------------------------|----------------|------|------------|---------|
| Age (years)              | 35.82 ± 8.16   | 1.14 | 1.08, 1.21 | <0.01   |
| FBG (mmol/L)             | 4.80 ± 1.26    | 1.33 | 0.93, 1.88 | 0.12    |
| TC (mmol/L)              | 3.97 ± 0.85    | 1.23 | 0.79, 1.92 | 0.36    |
| HDL (mmol/L)             | 1.14 ± 0.26    | 0.81 | 0.18, 3.57 | 0.80    |
| LDL (mmol/L)             | 2.54 ± 0.82    | 1.16 | 0.73, 1.85 | 0.52    |
| LH (mIU/mL)              | 4.63 ± 2.35    | 0.93 | 0.79, 1.11 | 0.43    |
| E2 (pg/mL)               | 56.03 ± 24.48  | 1.00 | 0.98, 1.01 | 0.72    |
| Hcy (μmol/L)             | 18.53 ± 6.26   | 1.22 | 1.12, 1.31 | <0.01   |
| Testosterone (ng/mL)     | 4.20 ± 1.22    | 0.79 | 0.57, 1.09 | 0.16    |
| PRL (ng/mL), median (IQR)| 15.86 ± 9.92   | 1.02 | 0.98, 1.06 | 0.28    |
| TG (mmol/L), median (IQR)| 1.17 ± 0.73    | 0.92 | 0.54, 1.56 | 0.75    |
| FSH (mIU/mL), median (IQR)| 5.44 ± 3.45   | 0.94 | 0.83, 1.07 | 0.32    |
| Progesterone (ng/mL), median (IQR)| 0.93 ± 0.55 | 0.67 | 0.30, 1.50 | 0.33    |
| HHcy                     |                |      |            |         |
| No                       | 53 (44.54%)    |      |            |         |
| Yes                      | 66 (55.64%)    |      |            | <0.01   |
| Trauma                   |                |      |            |         |
| No                       | 99 (83.19%)    |      |            |         |
| Yes                      | 20 (16.81%)    |      |            | 0.51    |
| Hypertension (%)         |                |      |            |         |
| No                       | 93 (78.15%)    |      |            |         |
| Yes                      | 26 (21.85%)    |      |            | <0.01   |
| Smoking (%)              |                |      |            |         |
| No                       | 83 (72.50%)    |      |            |         |
| Yes                      | 36 (27.50%)    |      |            | 0.64    |

ED, erectile dysfunction; E2, estradiol; FBG, fasting blood glucose; FSH, follicle-stimulating hormone; Hcy, homocysteine; HHcy, hyperhomocysteinaemia; HDL, high-density lipoprotein; LDL, low-density lipoprotein; LH, luteinizing hormone; PRL, prolactin; IQR, interquartile range; Ref, reference; TG, triglycerides; TC, total cholesterol.