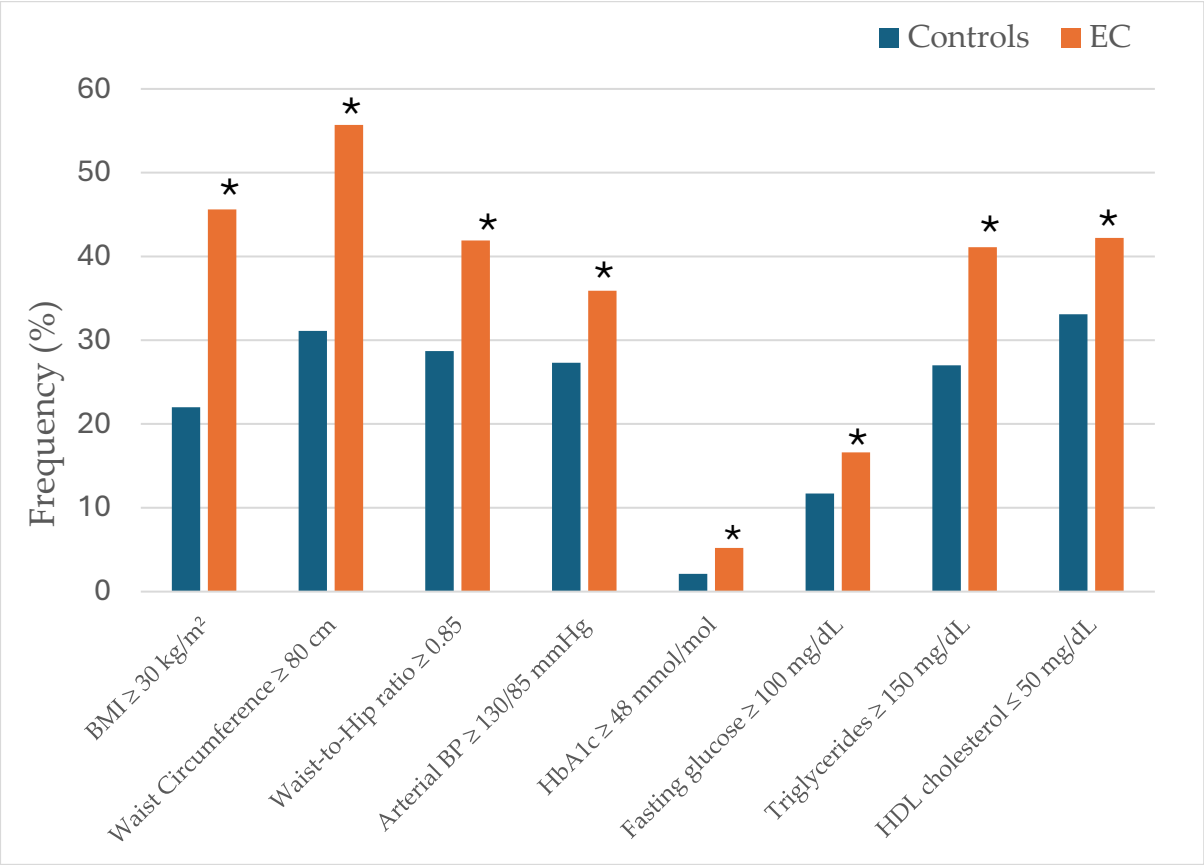
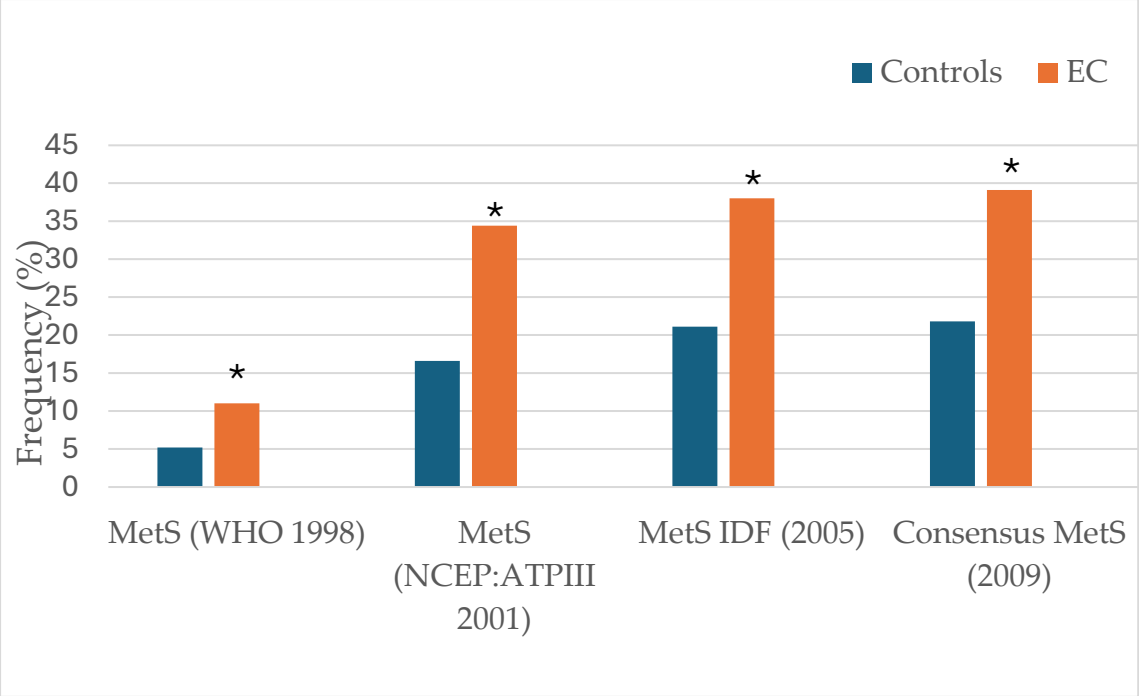
**Supplementary Materials**

**Supplementary Table S1.** Risk of MetS components in the EC and control cohort

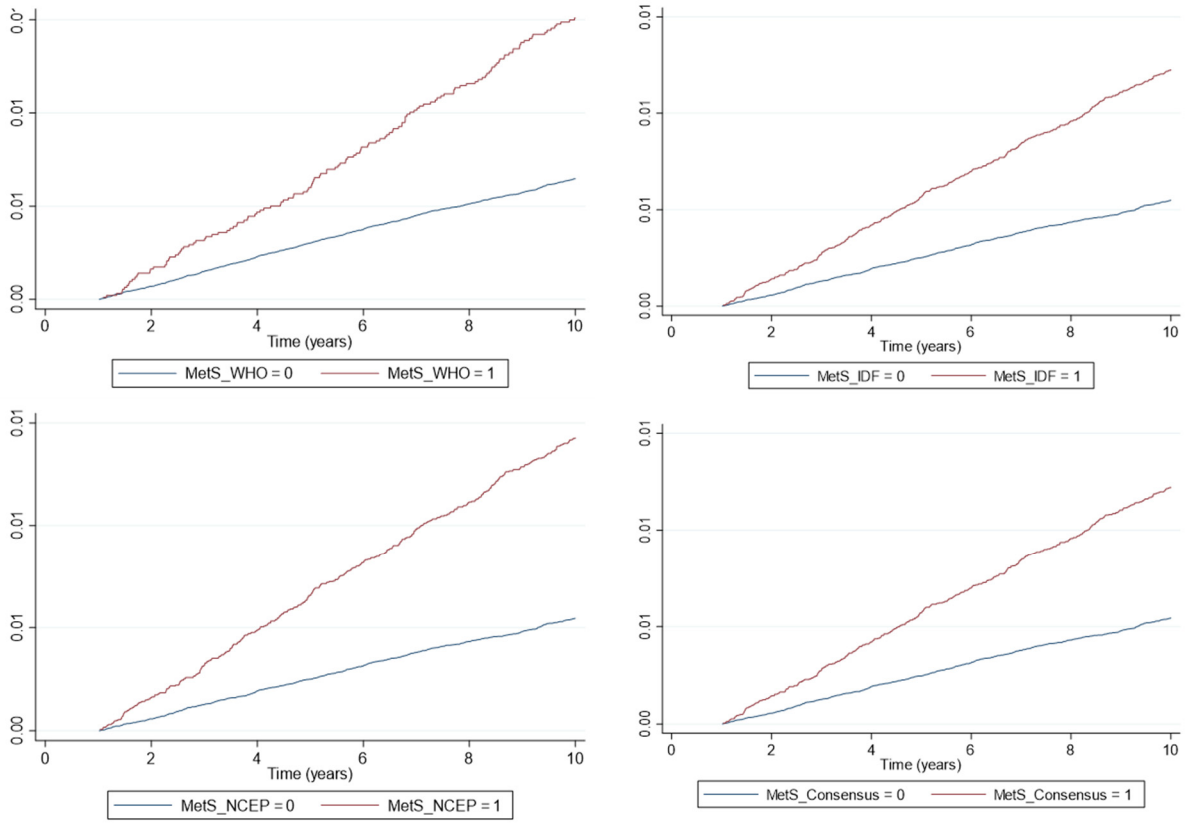
| | HR | 95.0% CI for HR | p | SE |
|---|---|---|---|---|
| Menopausal status | 1.931 | 1.669-2.234 | <0.001 | 0.074 |
| Age at menarche | 0.917 | 0.887-0.948 | <0.001 | 0.017 |
| Nulliparity | 1.327 | 1.172-1.502 | <0.001 | 0.084 |
| Oral contraceptive pill use (ever use) | 0.638 | 0.569-0.716 | <0.001 | 0.059 |
| HRT (ever use) | 1.143 | 1.021-1.279 | 0.021 | 0.058 |
| Smoking | 0.777 | 0.700-0.862 | <0.001 | 0.053 |
| BMI 25-29 kg/$m^2$ | 1.394 | 1.190- 1.634 | <0.001 | 0.112 |
| BMI 30-34 kg/$m^2$ | 1.902 | 1.533- 2.360 | <0.001 | 0.209 |
| BMI 35-39 kg/$m^2$ | 3.564 | 2.793- 4.549 | <0.001 | 0.443 |
| BMI ≥40 kg/$m^2$ | 5.870 | 4.525-7.617 | <0.001 | 0.780 |
| Waist circumference ≥80 cm | 2.212 | 1.977-2.474 | <0.001 | 0.057 |
| Triglycerides ≥150 mg/dL | 1.286 | 1.150-1.437 | <0.001 | 0.057 |
| HDL ≤ 50 mg/dL | 1.209 | 1.084-1.347 | <0.001 | 0.055 |
| BP ≥130/85 mmHg | 1.155 | 1.036-1.289 | 0.010 | 0.056 |
| Glucose ≥100 mg/dL | 1.082 | 0.931-1.257 | 0.305 | 0.076 |
| HbA1c ≥48 mmol/mol | 1.310 | 1.017-1.687 | 0.037 | 0.129 |




**Supplementary Figure S1.** Frequency histogram displaying MetS components in EC cases and controls. * denotes significant difference (P<0.05).




**Supplementary Figure S2.** Frequency histogram displaying frequency of differing MetS diagnosis amongst EC cases and controls. * denotes significant difference (P<0.05).




**Supplementary Figure S3.** Kaplan–Meier curves showing difference between cumulative hazard of EC development in those with MetS and those without. The differing MetS diagnostic criteria are compared. The top left compares the WHO diagnostic criteria and the top right

analyses the IDF criteria. The bottom left analyses the NCEP criteria and the bottom right analyses the Consensus criteria. On the x axis, the time to EC development in years is plotted against the cumulative hazard, on the y axis.