

Supplemental Materials

Supplemental-Table 1. Characteristics of study population at baseline by E2 groups

Characteristics	Low E2 N=207	Medium E2 N=256	High E2 - Early Decline N=350	High E2 - Late Decline N=43	P value
Age, years, Mean(SD)	46.14 (2.68)	45.54 (2.63)	45.86 (2.59)	44.63 (2.38)	0.002
BMI, kg/m ² , Mean (SD),	25.94 (5.47)	31.73 (7.68)	26.37 (6.14)	29.16 (7.27)	<0.001
SBP, mmHg, Mean (SD)	114.95 (16.05)	119.98 (17.21)	115.79 (17.91)	112.42 (10.45)	0.002
DBP, mmHg, Mean (SD)	73.72 (10.42)	75.27 (10.47)	73.91 (11.01)	73.22 (9.68)	0.31
HDL-C, mg/dL, Mean (SD)	57.73 (13.26)	53.36 (13.26)	59.70 (13.94)	52.09 (12.25)	<0.001
LDL-C, mg/dL, Mean (SD)	111.36 (27.40)	117.86 (30.70)	112.75 (29.16)	115.93 (29.47)	0.08
Triglycerides, mg/dL, Median (Q1, Q3),	95.00 (66.00, 139.50)	88.00 (63.00, 128.00)	78.00 (61.00, 108.00)	101.00 (71.00, 123.00)	<0.001
HOMA index, Median (Q1, Q3),	1.79 (1.33, 2.66)	2.47 (1.58, 3.56)	1.72 (1.23, 2.40)	2.54 (1.45, 4.12)	<0.001
Physical activity score, Mean (SD)	7.51 (1.81)	7.67 (1.79)	7.80 (1.79)	7.80 (1.87)	0.32

Supplemental-Table 2. Characteristics of study population at baseline by FSH groups

Characteristics	Low FSH N=53	Medium FSH N=431	High FSH N=372	P value
Age, years, Mean(SD)	45.07 (2.48)	45.45 (2.48)	46.24 (2.73)	<0.001
BMI, kg/m ² , Mean (SD),	35.92 (9.65)	28.98 (6.88)	25.75 (5.48)	<0.001
SBP, mmHg, Mean (SD)	118.94 (14.35)	116.92 (16.63)	116.05 (17.94)	0.47
DBP, mmHg, Mean (SD)	76.51 (9.87)	74.36 (10.65)	73.77 (10.73)	0.20
HDL-C, mg/dL, Mean (SD)	47.13 (9.60)	56.06 (13.54)	59.33 (13.84)	<0.001
LDL-C, mg/dL, Mean (SD)	111.92 (27.51)	115.17 (29.38)	113.26 (29.50)	0.58
Triglycerides, mg/dL, Median (Q1, Q3),	104.00 (78.00, 129.00)	89.00 (65.00, 128.00)	79.00 (61.00, 109.00)	0.003
HOMA index, Median (Q1, Q3),	2.81 (1.85, 7.08)	2.15 (1.42, 3.24)	1.71 (1.23, 2.46)	<0.001
Physical activity score, Mean (SD)	6.99 (1.59)	7.78 (1.86)	7.69 (1.74)	0.01