

### Supplemental Digital Content 3.

#### Adjusted Odds Ratios of Belonging to a VMS Trajectory Relative to a Low VMS Trajectory<sup>a</sup> (n=1455)

Risk factors	Early onset VMS (n=246)	Late onset VMS (n=422)	High VMS (n=382)
FSH trajectory			
High	1 [Reference]	1 [Reference]	1 [Reference]
Medium	0.68 (0.42, 1.10)	0.82 (0.58, 1.18)	<b>0.58 (0.39, 0.84)</b>
Low	1.11 (0.51, 2.38)	0.67 (0.32, 1.43)	0.66 (0.33,1.30)
Race/Ethnicity			
Non-Hispanic White	1 [Reference]	1 [Reference]	1 [Reference]
African American	1.02 (0.52, 1.99)	<b>1.90 (1.12, 3.24)</b>	<b>3.21 (1.92,5.37)</b>
Chinese	0.70 (0.22,2.27)	0.49 (0.21, 1.12)	0.43 (0.17, 1.06)
Japanese	0.71 (0.24, 2.05)	0.98 (0.44,2.18)	0.63 (0.27, 1.43)
Hispanic	0.99 (0.19, 5.30)	1.02 (0.29, 3.63)	1.83 (0.38, 8.76)
BMI			
Normal	1 [Reference]	1 [Reference]	1 [Reference]
Overweight	1.08 (0.56, 2.06)	0.84 (0.53, 1.32)	1.00 (0.62, 1.62)
Obese	1.42 (0.80, 2.50)	<b>0.55 (0.35, 0.85)</b>	0.75 (0.48, 1.18)
Age at FMP (per yr)	<b>1.21 (1.09, 1.33)</b>	0.97 (0.91, 1.03)	1.04 (0.97, 1.12)
Menopause status			
Premenopause	1 [Reference]	1 [Reference]	1 [Reference]
Early perimenopause	<b>2.11 (1.33, 3.37)</b>	1.20 (0.84, 1.71)	1.29 (0.90,1.85)
Physical activity score (per point)	1.01 (0.88, 1.17)	0.96 (0.86, 1.06)	0.97 (0.87, 1.08)
Smoking status			
Never	1 [Reference]	1 [Reference]	1 [Reference]
Past	1.35 (0.79, 2.29)	1.21 (0.80,1.85)	1.22 (0.79, 1.87)
Current	1.99 (0.94,4.23)	<b>1.82 (1.02, 3.27)</b>	1.31 (0.72, 2.40)
Alcohol servings per wk use			
None	1 [Reference]	1 [Reference]	1 [Reference]
≤1	1.26 (0.61, 2.57)	1.43 (0.81, 2.52)	1.12 (0.59, 2.10)
1-7	1.20 (0.68, 2.57)	1.39 (0.91, 2.11)	<b>1.75 (1.13, 2.70)</b>
>7	1.96 (0.92, 4.17)	1.45 (0.81, 2.62)	<b>1.93 (1.06, 3.51)</b>
General health status			
Excellent	1 [Reference]	1 [Reference]	1 [Reference]
Very good	<b>2.32 (1.13, 4.73)</b>	<b>1.64 (1.06, 2.52)</b>	<b>1.82 (1.11, 2.98)</b>
Good	<b>3.59 (1.65, 7.81)</b>	1.19 (0.70, 2.03)	<b>1.86 (1.06, 3.27)</b>
Fair/Poor	<b>3.10 (1.15, 8.35)</b>	0.88 (0.41, 1.91)	<b>2.36 (1.16, 4.81)</b>

<b>Risk factors</b>	<b>Early onset VMS (n=246)</b>	<b>Late onset VMS (n=422)</b>	<b>High VMS (n=382)</b>
Difficulty paying for basics			
Not hard	1 [Reference]	1 [Reference]	1 [Reference]
Very/somewhat hard	0.87 (0.52, 1.46)	1.00 (0.68, 1.47)	0.92 (0.62, 1.36)
Educational attainment			
≥College	1 [Reference]	1 [Reference]	1 [Reference]
<College	1.56 (0.96, 2.52)	1.25 (0.86, 1.82)	<b>1.85 (1.27, 2.71)</b>
Depressive symptoms scores on the CES-D Scale (per point)	<b>1.05 (0.96, 2.52)</b>	1.02 (1.00, 1.05)	<b>1.05 (1.02, 1.08)</b>
Anxiety symptoms score ≥4			
No	1 [Reference]	1 [Reference]	1 [Reference]
Yes	2.30 (1.22 (4.32)	0.84 (0.45, 1.57)	<b>2.46 (1.43, 4.21)</b>
Symptom sensitivity (per point)	1.03 (0.96, 1.10)	1.10 (0.96, 1.06)	<b>1.10 (1.05, 1.16)</b>
Hormone use before FMP			
No	1 [Reference]	1 [Reference]	1 [Reference]
Yes	1.95 (0.98,3.88)	0.97 (0.54, 1.77)	1.57 (0.89, 2.77)

CI, confidence interval; VMS, menopausal vasomotor symptoms; BMI, body mass index; CES-D, Center for Epidemiologic Studies-Depression.

<sup>a</sup>FHS trajectory subgroups were included in the model instead of E2 trajectory subgroups. All risk factors as well as study site was adjusted in the model. Bold fonts of OR(95%CI) indicate *P* value<.05