

## Supplementary Data

SUPPLEMENTARY TABLE S1. BASELINE SEX HORMONE LEVELS OF THE PARTICIPANTS IN THE MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS VISIT 1 (2000–2002)

<i>Sex hormone level</i>	<i>All participants</i>	<i>Women</i>	<i>Men</i>	<i>p-value</i>
No. of participants	3075	1368	1707	
Log total testosterone, mean (SD)	1.389 (1.486)	-0.157 (0.638)	2.627 (0.451)	<0.001
One SD of log total testosterone, mean (SD)	0.935 (1.000)	-0.105 (0.430)	1.768 (0.304)	<0.001
Log bioavailable testosterone, mean (SD)	0.195 (1.738)	-1.614 (0.811)	1.637 (0.465)	<0.001
One SD of bioavailable testosterone, mean (SD)	0.112 (1.000)	-0.929 (0.467)	0.942 (0.267)	<0.001
Log estradiol, mean (SD)	-2.325 (0.709)	-2.474 (0.949)	-2.206 (0.391)	<0.001
One SD of log estradiol, mean (SD)	-3.279 (1.000)	-3.489 (1.338)	-3.112 (0.552)	<0.001
Log DHEA, mean (SD)	2.444 (0.528)	2.315 (0.549)	2.547 (0.487)	<0.001
One SD of log DHEA, mean (SD)	4.624 (1.000)	4.380 (1.040)	4.820 (0.922)	<0.001
Log free testosterone, mean (SD)	0.458 (0.445)	0.185 (0.476)	0.676 (0.261)	<0.001
One SD of log testosterone mean (SD)	1.029 (1.000)	0.416 (1.069)	1.520 (0.587)	<0.001
Log SHBG, mean (SD)	3.884 (0.552)	4.133 (0.610)	3.685 (0.401)	<0.001
One SD of log SHBG, mean (SD)	7.042 (1.000)	7.493 (1.106)	6.680 (0.726)	<0.001
Log T/E ratio, mean (SD)	3.714 (1.515)	2.317 (1.151)	4.833 (0.508)	<0.001
One SD of log T/E ratio, mean (SD)	2.451 (1.000)	1.529 (0.759)	3.190 (0.335)	<0.001

Results are expressed as mean and standard deviation of the log-transformed sex hormone levels.

All sex hormone levels are measured in nM, T/E a unitless ratio.

SD, standard deviation; DHEA, dehydroepiandrosterone; SHBG, sex hormone binding globulin; T/E ratio, testosterone/estrogen ratio.

SUPPLEMENTARY TABLE S2. MEASURES OF BRACHIAL REACTIVITY STRATIFIED BY TERTILES OF SEX HORMONES FOR MEN AND WOMEN IN THE MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS VISIT 1 (2000–2002)

	<i>Free T tertile 1</i>	<i>Free T tertile 2</i>	<i>Free T tertile 3</i>	<i>p-value</i>
<b>Women</b>				
No. of participants	461	455	452	
Baseline diameter (mm), mean (SD)	3.697 (0.596)	3.868 (0.611)	3.999 (0.639)	<0.001
FMD absolute change (mm), mean (SD)	0.169 (0.102)	0.156 (0.090)	0.169 (0.093)	0.071
FMD % change, mean (SD)	4.755 (3.127)	4.229 (2.710)	4.417 (2.659)	0.018
<b>Men</b>				
No. of participants	572	572	563	
Baseline diameter (mm), mean (SD)	4.836 (0.678)	4.836 (0.709)	4.852 (0.668)	0.91
FMD absolute change (mm), mean (SD)	0.168 (0.101)	0.182 (0.105)	0.202 (0.109)	<0.001
FMD % change, mean (SD)	3.618 (2.347)	3.894 (2.383)	4.326 (2.476)	<0.001
	<i>SHBG tertile 1</i>	<i>SHBG tertile 2</i>	<i>SHBG tertile 3</i>	<i>p-value</i>
<b>Women</b>				
No. of participants	456	457	455	
Baseline diameter (mm), mean (SD)	3.994 (0.634)	3.866 (0.611)	3.700 (0.603)	<0.001
FMD absolute change (mm), mean (SD)	0.169 (0.093)	0.157 (0.090)	0.168 (0.102)	0.11
FMD % change, mean (SD)	4.407 (2.654)	4.253 (2.716)	4.744 (3.136)	0.029
<b>Men</b>				
No. of participants	574	564	569	
Baseline diameter (mm), mean (SD)	4.844 (0.685)	4.867 (0.695)	4.812 (0.675)	0.40
FMD absolute change (mm), mean (SD)	0.202 (0.110)	0.181 (0.104)	0.168 (0.101)	<0.001
FMD % change, mean (SD)	4.332 (2.496)	3.851 (2.352)	3.644 (2.354)	<0.001

Results are expressed as mean and standard deviation of the FMD parameter.

All sex hormone levels are measured in nM.

FMD, flow-mediated dilation; Free T, free testosterone.