**Supplemental Table 3. Linear regression for estimated mean concentration differences of endogenous sex hormones by statin type for men**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Hormone** | **Statin type** | **Coefficient\*** | **95% CI** | **p-value** |
| DHEA, nmol/L |  |  |  |  |
| Model 1 | Atorvastatin | -1.11 | (-2.10, -0.12) | 0.03 |
|  | Pravastatin | 0.13 | (-1.64,1.91) | 0.88 |
|  | Simvastatin | -1.66 | (-2.73, -0.59) | 0.002 |
|  | Other | -0.48 | (-2.90,1.94) | 0.70 |
| Model 2 | Atorvastatin | -0.68 | (-1.68, 0.33) | 0.19 |
|  | Pravastatin | 0.53 | (-1.24, 2.30) | 0.56 |
|  | Simvastatin | -1.23 | (-2.31, -0.15) | 0.03 |
|  | Other | -0.22 | (-2.63,2.19) | 0.86 |
| SHBG, nmol/L |  |  |  |  |
| Model 1 | Atorvastatin | -3.51 | (-6.02, -1.00) | 0.01 |
|  | Pravastatin | -3.82 | (-8.24,0.60) | 0.09 |
|  | Simvastatin | -2.40 | (-5.11,0.31) | 0.08 |
|  | Other | -7.78 | (-13.80, -1.76) | 0.01 |
| Model 2 | Atorvastatin | -3.15 | (-5.76, -0.53) | 0.02 |
|  | Pravastatin | -5.04 | (-9.73, -0.35) | 0.04 |
|  | Simvastatin | -2.49 | (-5.32,0.34) | 0.07 |
|  | Other | -9.66 | (-16.05, -3.27) | 0.003 |
| Total T nmol/L |  |  |  |  |
| Model 1 | Atorvastatin | -0.42 | (-1.20,0.37) | 0.30 |
|  | Pravastatin | -1.77 | (-3.18, -0.36) | 0.01 |
|  | Simvastatin | -0.98 | (-1.83, -0.13) | 0.02 |
|  | Other | -0.66 | (-2.59,1.26) | 0.50 |
| Model 2 | Atorvastatin | -0.28 | (-1.04,0.48) | 0.48 |
|  | Pravastatin | -1.19 | (-2.53,0.15) | 0.08 |
|  | Simvastatin | -0.69 | (-1.51,0.13) | 0.09 |
|  | Other | -0.03 | (-1.86,1.80) | 0.98 |
| Bioavailable T, nmol/L |  |  |  |  |
| Model 1 | Atorvastatin | 0.17 | (-0.11,0.46) | 0.23 |
|  | Pravastatin | -0.36 | (-0.87,0.14) | 0.16 |
|  | Simvastatin | -0.28 | (-0.59,0.03) | 0.07 |
|  | Other | 0.66 | (-0.03,1.35) | 0.06 |
| Model 2 | Atorvastatin | 0.27 | (-0.02,0.55) | 0.07 |
|  | Pravastatin | -0.22 | (-0.72,0.29) | 0.40 |
|  | Simvastatin | -0.16 | (-0.47,0.14) | 0.30 |
|  | Other | 0.77 | (0.08,1.46) | 0.03 |
| Estradiol, nmol/L |  |  |  |  |
| Model 1 | Atorvastatin | -0.01 | (-0.01,0.00) | 0.11 |
|  | Pravastatin | -0.01 | (-0.02,0.01) | 0.36 |
|  | Simvastatin | 0.01 | (0.00,0.02) | 0.01 |
|  | Other | 0.00 | (-0.01,0.02) | 0.62 |
| Model 2 | Atorvastatin | -0.00 | (-0.01,0.00) | 0.18 |
|  | Pravastatin | -0.01 | (-0.02,0.01) | 0.32 |
|  | Simvastatin | 0.01 | (0.00,0.02) | 0.01 |
|  | Other | 0.00 | (-0.01,0.02) | 0.68 |

Reference: non-users

DHEA: dehydroepiadrosterone; SHBG: sex hormone binding globulin; T: testosterone

Model 1: race and age adjusted

Model 2: Model 1 adjustments + high density lipoprotein cholesterol, total cholesterol, BMI, diabetes, cigarette use, hypertension medication use, systolic and diastolic blood pressure