**Supplementary Table 3. Bivariate analyses of hormonal factors associated with epigenetic age acceleration\*, stratified by menopausal status.**

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| --- | --- | --- | --- | --- | --- |
|  | **Grim age acceleration** | **Pan-tissue age acceleration** | **Hannum age acceleration** | **Phenotypic age acceleration** | **Skin and Blood age acceleration** |
| ***Pre-menopausal*** | β | p | β | p | β | p | β | p | β | p |
| **Ethnicity** **Hispanic** | **3.54** | **0.024** | 2.74 | 0.20 | **9.11** | **7.6x10-4** | **16.7** | **0.013** | **18.5** | **2.6x10-4** |
| **Tobacco use** **Ever** **Years smoked** | -0.361.6x10-4 | 0.640.997 | -0.65-0.11 | 0.510.066 | 0.360.031 | 0.790.69 | 0.500.10 | 0.880.60 | -0.10-0.0091 | 0.970.95 |
| **Body mass index** **Overweight** **Obese** | 0.070**1.25**0.70 | 0.090**0.038**0.29 | -0.0141.21-0.61 | 0.810.140.49 | **0.19**1.561.96 | **0.0080**0.140.088 | 0.23**5.29**1.87 | 0.21**0.042**0.51 | 0.233.242.46 | 0.0860.110.26 |
| **Age at menarche** | **-0.43** | **0.011** | -0.20 | 0.39 | -0.46 | 0.13 | -0.88 | 0.23 | **-1.19** | **0.032** |
| **Total menstrual years** | 0.014 | 0.67 | 0.048 | 0.27 | 0.019 | 0.75 | 0.081 | 0.57 | 0.055 | 0.61 |
| **Gravidity** | 0.20 | 0.18 | 0.048 | 0.81 | 0.17 | 0.52 | 0.64 | 0.32 | 0.14 | 0.77 |
| **Parity** | 0.26 | 0.20 | -0.0045 | 0.99 | 0.45 | 0.20 | 1.04 | 0.23 | 0.33 | 0.62 |
| **Age at first live birth** | -0.035 | 0.64 | **0.25** | **0.033** | -0.049 | 0.70 | -0.058 | 0.87 | -0.13 | 0.59 |
| **Breastfeeding** **Ever** **Total months** | 0.910.042 | 0.110.078 | 0.510.040 | 0.510.22 | 1.360.077 | 0.170.068 | 3.80.20 | 0.120.054 | 1.020.10 | 0.590.20 |
| **Birth control** | 0.087 | 0.89 | -0.17 | 0.84 | -0.10 | 0.93 | 0.35 | 0.90 | 0.89 | 0.67 |
|  |  |  |  |  |  |  |  |  |  |  |
| ***Post-menopausal*** | β | p | β | p | β | p | β | p | β | p |
| **Ethnicity** **Hispanic** | 0.59 | 0.65 | 0.31 | 0.86 | 1.78 | 0.33 | 1.36 | 0.77 | 1.97 | 0.58 |
| **Tobacco use** **Ever** **Years smoked** | **1.48**0.040 | **0.025**0.133 | 1.340.015 | 0.120.68 | 0.910.026 | 0.320.50 | **5.51**0.025 | **0.015**0.80 | 1.79-0.025 | 0.310.73 |
| **Body mass index** **Overweight** **Obese** | **0.11**-0.23**1.53** | **0.012**0.74**0.014** | 0.073-0.371.33 | 0.220.690.11 | 0.14-0.621.49 | 0.0270.530.093 | **0.33**-1.67**4.99** | **0.042**0.51**0.026** | 0.21-0.932.98 | 0.0870.630.083 |
| **Age at menarche** | -0.14 | 0.49 | -0.31 | 0.25 | 0.40 | 0.16 | -0.17 | 0.82 | -0.46 | 0.41 |
| **Age at menopause** | -0.048 | 0.28 | 0.021 | 0.71 | -0.022 | 0.71 | -0.13 | 0.41 | -0.042 | 0.73 |
| **Total menstrual years** | -0.052 | 0.22 | 0.024 | 0.68 | -0.062 | 0.30 | -0.17 | 0.25 | -0.054 | 0.64 |
| **Gravidity** | -0.10 | 0.61 | -0.42 | 0.11 | 0.084 | 0.77 | 0.61 | 0.41 | 0.33 | 0.55 |
| **Parity** | -0.056 | 0.82 | -0.53 | 0.093 | -0.089 | 0.79 | 0.36 | 0.68 | 0.31 | 0.64 |
| **Age at first live birth** | -0.070 | 0.44 | -0.047 | 0.66 | -0.22 | 0.099 | -0.36 | 0.28 | -0.13 | 0.59 |
| **Breastfeeding** **Ever** **Total months** | -0.58-0.0086 | 0.380.70 | -1.64-0.032 | 0.0570.26 | -1.49-0.0090 | 0.110.77 | -2.280.0083 | 0.340.92 | -0.75-0.0021 | 0.680.97 |
| **Birth control** | -0.45 | 0.75 | -1.49 | 0.42 | -1.73 | 0.39 | 0.33 | 0.95 | -3.83 | 0.32 |
| **Hormone replacement** | 0.10 | 0.87 | -0.20 | 0.81 | -0.51 | 0.57 | 0.55 | 0.81 | -1.23 | 0.48 |

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\*Each epigenetic age acceleration measure is adjusted for chronologic age.