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PH 720A

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**Research question**: Is greater number of self-reported hours worked in the prior week associated with subsequently measured high blood cholesterol among men and women aged 18-80 years who participated in NHANES 2017-2018?

**Table 1.** Frequencies, means, and medians of select characteristics of U.S adults from NHANES 2017-2018 (n = 1,715)

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristic** | **Unweighted n** | **Weighted n** | **Value** |
| Total blood cholesterol (mg/dL) a | 1,715 | 95,960,477 | 190.0 (1.4) |
| Prior week working hours b | 1,715 | 95,960,477 | 40.0 (30.0 – 80.0) |
| Age b | 1,715 | 95,960,477 | 39.0 (18.0 – 80.0) |
| BMI b | 1,715 | 95,960,477 | 28.4 (15.5 – 68.2) |
| Gender c  Male  Female | 917  798 | 53,762,535  42,197,943 | 56.0 (1.8)  44.0 (1.8) |
| Doctor says cholesterol is high c  Yes  No | 306  1,404 | 17,815,106  77,993,989 | 18.6 (1.5)  81.4 (1.5) |
| Sitting minutes daily b | 1,712 | 95,871,954 | 300.0 (2.0 – 1,140.0) |
| Vigorous work activity c  Yes  No | 551  1,163 | 33,618,508  62,313,737 | 35.0 (1.7)  65.0 (1.7) |
| Vigorous recreational activity c  Yes  No | 553  1,162 | 33,773,462  62,187,015 | 35.2 (1.8)  64.8 (1.8) |
| Race/Ethnicity c  Hispanic  Non-Hispanic White  Non-Hispanic Black  Non-Hispanic Asian  Other race or Multi-Racial | 414  553  380  282  86 | 15,809,379  60,436,789  9,793,855  5,381,098  4,539,357 | 16.5 (1.0)  63.0 (1.5)  10.2 (0.6)  5.6 (0.4)  4.7 (0.8) |
| Education c  No H.S. diploma  High school or GED  Some college or AA degree  College graduate or above | 232  388  561  490 | 7,288,350  24,621,029  33,284,597  30,055,543 | 7.7 (0.7)  26.1 (1.6)  31.8 (1.6)  34.4 (1.8) |
| Income-to-poverty ratio b | 1,715 | 95,960,477 | 3.5 (0.0 – 5.0) |

a Value is weighted mean (SE)

b Value is weighted median (min – max)

c Value is weighted percentage (SE)

**Table 2.** Unadjusted associations with total blood cholesterol

|  |  |  |
| --- | --- | --- |
| **Bivariate correlations with total blood cholesterol** | | |
| Variable | Weighted n | Correlation |
| Prior week working hours | 95,960,477 | -0.08\*\* |
| Age | 95,960,477 | 0.31\*\*\* |
| BMI | 95,960,477 | 0.12\*\*\* |
| Sitting minutes daily | 95,871,954 | 0.03 |
| Income-to-poverty ratio | 95,960,477 | 0.10\*\* |
|  |  |  |
| **Mean total blood cholesterol by categorized features** | | |
| Variable | Weighted n | Mean (SD) |
| Gender  Male  Female | 53,762,535  42,197,943 | 190.3 (38.4)  189.7 (39.0) |
| Doctor says cholesterol is high  Yes  No | 17,815,106  77,993,989 | \*\*\*  213.9 (39.9)  184.5 (36.2) |
| Vigorous work activity  Yes  No | 33,618,508  62,313,737 | 189.5 (41.3)  190.3 (37.2) |
| Vigorous recreational activity  Yes  No | 33,773,462  62,187,015 | \*\*\*  182.8 (37.1)  193.9 (38.9) |
| Race/Ethnicity  Hispanic  Non-Hispanic White  Non-Hispanic Black  Non-Hispanic Asian  Other race or Multi-Racial | 15,809,379  60,436,789  9,793,855  5,381,098  4,539,357 | \*\*  191.0 (39.6)  189.6 (38.6)  182.5 (38.0)  196.3 (37.8)  200.0 (35.8) |
| Education  No H.S. diploma  High school or GED  Some college or AA degree  College graduate or above | 7,288,350  24,621,029  33,284,597  30,055,543 | 198.0 (42.9)  189.9 (41.5)  190.0 (38.7)  190.0 (34.5) |

~ p<0.10

\* p<0.05

\*\* p<0.01

\*\*\* p<0.001