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| **Supplementary Table 1:**  Adjusted means of cardiometabolic risk factors at 18-20 years of age associated with potato intake from ages 9-11 and 9-17 years in the NGHS study (Means and standard errors). |
|  | **BMI (kg/m2)** | **SBP (mm Hg)** | **DBP (mm Hg)** | **Log TAG (mg/dL)** | **Log TAG:HDL** | **Glucose (mg/dl)** |
|  | **N** | **Mean\*** | **SE** | **Mean\*** | **SE** | **Mean\*** | **SE** | **N** | **Mean\*** | **SE** | **Mean\*** | **SE** | **N** | **Mean\*** | **SE** |
| ***Total Potato intake at ages 9-11 (cup-eq/day)*** |  |  |  |  |  |  |  |  |  |  |  |
| **All subjects** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < 0.17 | 695 | 25.2 | 0.2 | 108.7 | 0.3 | 65.4 | 0.3 | 473 | 4.31 | 0.02 | 0.92 | 0.01 | 535 | 87.7 | 1.0 |
| 0.17-<0.33 | 586 | 25.3 | 0.3 | 109.0 | 0.3 | 65.1 | 0.3 | 418 | 4.30 | 0.02 | 0.91 | 0.02 | 457 | 89.4 | 1.0 |
| 0.33-1.0 | 708 | 24.9 | 0.2 | 109.4 | 0.3 | 65.9 | 0.3 | 477 | 4.29 | 0.02 | 0.90 | 0.01 | 551 | 88.0 | 0.9 |
| *P-trend* |  | *0.42* | *0.12* | *0.28* |  | *0.31* |  | *0.40* |  | *0.84* |  |
| **White girls** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < 0.17  | 376 | 23.7 | 0.3 | 107.6 | 0.4 | 64.6 | 0.4 | 247 | 4.46 | 0.03 | 1.02 | 0.02 | 288 | 86.8 | 1.0 |
| 0.17-<0.33 | 288 | 23.8 | 0.3 | 108.0 | 0.5 | 64.1 | 0.4 | 199 | 4.43 | 0.03 | 1.01 | 0.02 | 218 | 86.2 | 1.2 |
| 0.33-1.0 | 323 | 23.5 | 0.3 | 108.5 | 0.4 | 65.1 | 0.4 | 201 | 4.41 | 0.03 | 0.99 | 0.02 | 249 | 88.0 | 1.1 |
| *P-trend* |  | *0.66* | *0.16* | *0.44* |  | *0.22* | *0.26* |  | *0.45* |
| **Black girls** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < 0.17  | 319 | 26.7 | 0.4 | 109.9 | 0.5 | 66.1 | 0.5 | 226 | 4.18 | 0.03 | 0.82 | 0.02 | 247 | 88.5 | 1.7 |
| 0.17-<0.33 | 298 | 26.7 | 0.4 | 109.9 | 0.5 | 66.1 | 0.5 | 219 | 4.17 | 0.03 | 0.83 | 0.02 | 239 | 92.4 | 1.7 |
| 0.33-1.0 | 385 | 26.3 | 0.4 | 110.3 | 0.4 | 66.6 | 0.4 | 276 | 4.17 | 0.02 | 0.82 | 0.02 | 302 | 88.2 | 1.5 |
| *P-trend* |  | *0.50* | *0.49* | *0.45* |  | *0.85* | *1.00* |  | *0.83* |
| ***Total Potato intake at ages 9-17 (cup-eq/day)*** |  |  |  |  |  |  |  |  |  |  |  |
| **All subjects** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < 0.25 | 573 | 25.5 | 0.3 | 108.5 | 0.3 | 65.2 | 0.3 | 387 | 4.31 | 0.02 | 0.92 | 0.02 | 432 | 87.6 | 1.1 |
| 0.25-<0.50 | 870 | 24.9 | 0.2 | 108.9 | 0.3 | 65.2 | 0.3 | 610 | 4.28 | 0.02 | 0.89 | 0.01 | 691 | 88.4 | 0.8 |
| 0.5-1.0 | 648 | 25.1 | 0.2 | 109.7 | 0.3 | 66.0 | 0.3 | 431 | 4.32 | 0.02 | 0.93 | 0.02 | 491 | 88.4 | 1.0 |
| *P-trend* |  | *0.33* | *0.0135* | *0.07* |  | *0.68* | *0.68* |  | *0.61* |
| **White girls** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < 0.25 | 367 | 23.7 | 0.3 | 107.5 | 0.4 | 64.3 | 0.4 | 247 | 4.45 | 0.03 | 1.02 | 0.02 | 278 | 86.4 | 1.0 |
| 0.25-<0.50 | 434 | 23.5 | 0.2 | 107.9 | 0.4 | 64.5 | 0.4 | 285 | 4.41 | 0.03 | 0.99 | 0.02 | 335 | 87.3 | 0.9 |
| 0.5-1.0 | 227 | 23.9 | 0.3 | 108.9 | 0.5 | 65.5 | 0.5 | 139 | 4.48 | 0.04 | 1.04 | 0.03 | 168 | 87.5 | 1.3 |
| *P-trend* |  | *0.77* | *0.0352* | *0.11* |  | *0.67* | *0.87* |  | *0.48* |
| **Black girls** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < 0.25 | 206 | 27.4 | 0.5 | 109.7 | 0.6 | 66.2 | 0.6 | 140 | 4.19 | 0.03 | 0.83 | 0.02 | 154 | 89.0 | 2.1 |
| 0.25-<0.50 | 436 | 26.3 | 0.3 | 109.8 | 0.4 | 66.0 | 0.4 | 325 | 4.16 | 0.02 | 0.81 | 0.02 | 356 | 89.5 | 1.3 |
| 0.5-1.0 | 421 | 26.3 | 0.4 | 110.3 | 0.4 | 66.5 | 0.4 | 292 | 4.19 | 0.02 | 0.83 | 0.02 | 323 | 89.4 | 1.4 |
| *P-trend* |   | *0.15* | *0.34* | *0.53* |  | *0.81* | *0.66* |  | *0.91* |

Abbreviations: NGHS, National Heart, Lung, and Blood Institute's Growth and Health Study; BMI, body mass index; SBP, Systolic blood pressure; DBP, diastolic blood pressure; SE, standard error and cup–eq, cup – equivalents.

\*Models adjusted for age, race (for all subjects’ analysis), hours of TV and video watched per day, percent of calories from fat and fruit and non–starchy vegetable intake

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| **Supplementary Table 2.** Mean cardiometabolic risk factor levels at 18-20 years of age associated with independent and combined effects of potato consumption and dietary factors at 9-11 years of age (Means and standard errors). |
|  | **Stratifying by Baseline (Ages 9-11 Years) Dietary Factors** |
|  | **HEI score\*** | **Fruit & Vegetables**† |
|  | Lower | Higher | *P-value* | Lower | Higher | *P-value* |
| **Potato Intake**‡ | **BMI (kg/m2)**§ |
| Lower | 25.2 (0.3) | 25.2 (0.4) | *0.93* | 25.5 (0.3) | 24.9 (0.4) | *0.25* |
| Higher | 25.2 (0.2) | 24.8 (0.3) | *0.25* | 25.3 (0.2) | 24.8 (0.3) | *0.16* |
| *P-value* | *0.97* | *0.47* |  | *0.70* | *0.82* |  |
|  | **SBP (mm Hg)**§ |
| Lower  | 108.6 (0.4) | 108.9 (0.5) | *0.64* | 108.7 (0.4) | 108.8 (0.5) | *0.94* |
| Higher | 109.2 (0.3) | 109.2 (0.4) | *0.93* | 109.3 (0.3) | 109.1 (0.3) | *0.65* |
| *P-value* | *0.22* | *0.69* |  | *0.26* | *0.56* |  |
|  | **DBP (mm Hg)**§ |
| Lower | 65.9 (0.4) | 64.5 (0.5) | *0.0293* | 65.6 (0.4) | 65.2 (0.5) | *0.60* |
| Higher | 65.6 (0.3) | 65.4 (0.3) | *0.52* | 65.6 (0.3) | 65.4 (0.3) | *0.64* |
| *P-value* | *0.56* | *0.18* |   | *0.93* | *0.78* |  |
|  | **Log TAG (mg/dL)**§ |
| Lower  | 4.32 (0.02) | 4.31 (0.03) | *0.86* | 4.33 (0.03) | 4.30 (0.03) | *0.46* |
| Higher | 4.31 (0.02) | 4.26 (0.02) | *0.08* | 4.29 (0.02) | 4.30 (0.02) | *0.76* |
| *P-value* | *0.92* | *0.23* |  | *0.22* | *0.96* |  |
|  | **Log TAG:HDL ratio**§ |
| Lower | 0.91 (0.02) | 0.92 (0.02) | *0.74* | 0.94 (0.02) | 0.89 (0.02) | *0.14* |
| Higher | 0.92 (0.01) | 0.88 (0.02) | *0.0363* | 0.91 (0.01) | 0.90 (0.02) | *0.90* |
| *P-value* | *0.62* | *0.13* |  | *0.22* | *0.69* |  |
|  | **Glucose (mg/dl)**§ |
| Lower  | 87.0 (1.2) | 88.7 (1.6) | *0.40* | 87.9 (1.3) | 87.2 (1.4) | *0.72* |
| Higher | 87.1 (0.9) | 90.9 (1.1) | *0.0075* | 87.9 (1.0) | 89.7 (1.0) | *0.19* |
| *P-value* | *0.97* | *0.25* |  | *0.97* | *0.16* |  |
| Abbreviations: BMI: body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure and HDL, high density lipoprotein.\*Lower category of HEI score is defined as <45 vs higher as ≥45.†Lower category of fruit and vegetables is defined as <1.5 vs ≥1.5 cup-equivalents per day.‡Lower potato intake is defined as <0.17 vs higher as 0.17 – 1.0.§Models adjusted for age, race, hours of TV and video watched per day, and percent of calories from fat. |
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