Supplementary Table 1 Odds Ratios with 95% Confidence Interval for hyperuricemia according to the quartile of individual nut and total nut intake, stratified by gender.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Quartiles of individual nut | | | |  |
|  | Q1 | Q2 | Q3 | Q4 | *P* trend |
| **Male** |  |  |  |  |  |
| Peanut |  |  |  |  |  |
| No. of participants | 2311 | 1089 | 1551 | 1911 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.85 (0.74, 0.99) | 0.87 (0.76, 0.99) | 0.93 (0.83, 1.05) | 0.388 |
| Model 1 | 1 (Ref.) | 1.00 (0.73, 1.35) | 0.80 (0.59, 1.08) | 0.94 (0.67, 1.32) | 0.666 |
| Model 2 | 1 (Ref.) | 0.99 (0.72, 1.35) | 0.80 (0.59, 1.09) | 0.94 (0.66, 1.33) | 0.620 |
| Melon seed |  |  |  |  |  |
| No. of participants | 2346 | 1112 | 1540 | 1864 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.82 (0.72, 0.95) | 0.90 (0.79, 1.02) | 0.99 (0.88, 1.12) | 0.755 |
| Model 1 | 1 (Ref.) | 0.95 (0.69, 1.30) | 1.02 (0.74, 1.40) | 1.08 (0.76, 1.54) | 0.566 |
| Model 2 | 1 (Ref.) | 0.94 (0.68, 1.30) | 1.01 (0.73, 1.39) | 1.12 (0.78, 1.61) | 0.500 |
| Pine nut |  |  |  |  |  |
| No. of participants | 2312 | 1945 | 653 | 1952 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.88 (0.78, 0.99) | 1.13 (0.95, 1.35) | 0.97 (0.86, 1.10) | 0.599 |
| Model 1 | 1 (Ref.) | 0.79 (0.55, 1.14) | 1.19 (0.75, 1.88) | 0.86 (0.55, 1.34) | 0.885 |
| Model 2 | 1 (Ref.) | 0.79 (0.54, 1.14) | 1.21 (0.75, 1.93) | 0.80 (0.51, 1.27) | 0.745 |
| Pistachio |  |  |  |  |  |
| No. of participants | 2114 | 1971 | 747 | 2030 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 0.91 (0.80, 1.03) | 1.07 (0.91, 1.27) | 0.99 (0.88, 1.12) | 0.507 |
| Model 1 | 1 (Ref.) | 0.99 (0.68, 1.43) | 0.97 (0.62, 1.53) | 1.23 (0.79, 1.92) | 0.440 |
| Model 2 | 1 (Ref.) | 1.01 (0.69, 1.47) | 1.00 (0.63, 1.58) | 1.27 (0.80, 2.00) | 0.415 |
| Cashew |  |  |  |  |  |
| No. of participants | 2264 | 1983 | 679 | 1936 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.94 (0.84, 1.07) | 1.12 (0.94, 1.33) | 1.07 (0.95, 1.21) | 0.077 |
| Model 1 | 1 (Ref.) | 1.09 (0.74, 1.60) | 1.01 (0.63, 1.61) | 1.27 (0.79, 2.02) | 0.434 |
| Model 2 | 1 (Ref.) | 1.09 (0.74, 1.61) | 1.04 (0.64, 1.67) | 1.32 (0.81, 2.13) | 0.365 |
| Pecan |  |  |  |  |  |
| No. of participants | 2559 | 1883 | 625 | 1795 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.99 (0.87, 1.11) | 1.17 (0.98, 1.40) | 1.05 (0.93, 1.18) | 0.224 |
| Model 1 | 1 (Ref.) | 1.10 (0.75, 1.62) | 1.02 (0.62, 1.68) | 1.15 (0.72, 1.84) | 0.620 |
| Model 2 | 1 (Ref.) | 1.10 (0.74, 1.62) | 1.02 (0.62, 1.69) | 1.15 (0.71, 1.87) | 0.683 |
| Walnut |  |  |  |  |  |
| No. of participants | 1912 | 2004 | 752 | 2194 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 0.89 (0.78, 1.01) | 0.99 (0.83, 1.17) | 0.92 (0.81, 1.04) | 0.545 |
| Model 1 | 1 (Ref.) | 0.90 (0.65, 1.25) | 0.94 (0.63, 1.42) | 0.79 (0.54, 1.16) | 0.238 |
| Model 2 | 1 (Ref.) | 0.91 (0.65, 1.27) | 0.99 (0.65, 1.50) | 0.81 (0.55, 1.20) | 0.266 |
| Almond |  |  |  |  |  |
| No. of participants | 2515 | 897 | 1437 | 2013 |  |
| Range, g/day | 0 | 0-0.84 | 0.84-2.50 | >2.50 |  |
| Crude model | 1 (Ref.) | 0.97 (0.83, 1.13) | 1.01 (0.88, 1.15) | 1.02 (0.91, 1.15) | 0.638 |
| Model 1 | 1 (Ref.) | 1.27 (0.83, 1.96) | 1.56 (1.04, 2.32) | 1.30 (0.83, 2.03) | 0.303 |
| Model 2 | 1 (Ref.) | 1.28 (0.83, 1.98) | 1.61 (1.07, 2.42) | 1.27 (0.80, 2.01) | 0.315 |
| Daily nut |  |  |  |  |  |
| No. of participants | 2413 | 1887 | 653 | 1909 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.98 (0.87, 1.10) | 1.12 (0.94, 1.33) | 1.02 (0.91, 1.15) | 0.469 |
| Model 1 | 1 (Ref.) | 0.80 (0.56, 1.14) | 0.83 (0.53, 1.31) | 0.75 (0.48, 1.16) | 0.338 |
| Model 2 | 1 (Ref.) | 0.78 (0.54, 1.12) | 0.78 (0.49, 1.24) | 0.73 (0.46, 1.14) | 0.283 |
| Total nut |  |  |  |  |  |
| No. of participants | 1787 | 1169 | 1861 | 2045 |  |
| Range, g/day | 0-7.14 | 7.14-15.00 | 15.00-35.84 | >35.84 |  |
| Crude model | 1 (Ref.) | 0.94 (0.81, 1.09) | 0.88 (0.78, 1.01) | 1.00 (0.88, 1.14) | 0.913 |
| Model 1 | 1 (Ref.) | 1.18 (0.84, 1.67) | 0.96 (0.63, 1.45) | 0.83 (0.49, 1.40) | 0.281 |
| Model 2 | 1 (Ref.) | 1.16 (0.82, 1.65) | 0.91 (0.59, 1.39) | 0.77 (0.44, 1.33) | 0.212 |
| **Female** |  |  |  |  |  |
| Peanut |  |  |  |  |  |
| No. of participants | 3047 | 1470 | 1544 | 1133 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.93 (0.81, 1.07) | 0.97 (0.85, 1.11) | 1.00 (0.86, 1.16) | 0.954 |
| Model 1 | 1 (Ref.) | 0.85 (0.63, 1.14) | 0.91 (0.67, 1.26) | 1.05 (0.70, 1.56) | 0.644 |
| Model 2 | 1 (Ref.) | 0.86 (0.64, 1.16) | 0.90 (0.65, 1.25) | 1.07 (0.71, 1.61) | 0.768 |
| Melon seed |  |  |  |  |  |
| No. of participants | 2745 | 1467 | 1625 | 1357 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.98 (0.85, 1.13) | 0.97 (0.85, 1.11) | 1.11 (0.97, 1.28) | 0.203 |
| Model 1 | 1 (Ref.) | 1.15 (0.85, 1.54) | 0.93 (0.67, 1.28) | 1.12 (0.77, 1.62) | 0.929 |
| Model 2 | 1 (Ref.) | 1.13 (0.84, 1.53) | 0.94 (0.68, 1.30) | 1.17 (0.80, 1.71) | 0.031 |
| Pine nut |  |  |  |  |  |
| No. of participants | 2089 | 2882 | 784 | 1439 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.99 (0.88, 1.13) | 0.97 (0.81, 1.16) | 1.01 (0.88, 1.18) | 0.866 |
| Model 1 | 1 (Ref.) | 0.86 (0.61, 1.22) | 0.71 (0.44, 1.13) | 0.69 (0.43, 1.11) | 0.067 |
| Model 2 | 1 (Ref.) | 0.85 (0.60, 1.20) | 0.68 (0.43, 1.09) | 0.63 (0.39, 1.03) | 0.087 |
| Pistachio |  |  |  |  |  |
| No. of participants | 1780 | 2906 | 907 | 1601 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 1.02 (0.90, 1.16) | 1.05 (0.88, 1.25) | 1.07 (0.92, 1.24) | 0.343 |
| Model 1 | 1 (Ref.) | 0.91 (0.63, 1.32) | 1.14 (0.71, 1.83) | 1.41 (0.85, 2.33) | 0.099 |
| Model 2 | 1 (Ref.) | 0.94 (0.65, 1.38) | 1.18 (0.73, 1.91) | 1.45 (0.88, 2.42) | 0.520 |
| Cashew |  |  |  |  |  |
| No. of participants | 1940 | 2968 | 814 | 1472 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 1.04 (0.92, 1.18) | 1.01 (0.84, 1.20) | 1.10 (0.95, 1.27) | 0.317 |
| Model 1 | 1 (Ref.) | 0.99 (0.68, 1.46) | 0.58 (0.34, 0.99) | 0.96 (0.56, 1.67) | 0.384 |
| Model 2 | 1 (Ref.) | 0.99 (0.67, 1.46) | 0.59 (0.34, 1.02) | 1.03 (0.59, 1.80) | 0.636 |
| Pecan |  |  |  |  |  |
| No. of participants | 2035 | 2858 | 824 | 1477 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 1.00 (0.88, 1.14) | 1.15 (0.97, 1.37) | 0.99 (0.86, 1.15) | 0.684 |
| Model 1 | 1 (Ref.) | 0.68 (0.47, 1.00) | 1.16 (0.72, 1.86) | 0.88 (0.52, 1.50) | 0.559 |
| Model 2 | 1 (Ref.) | 0.66 (0.45, 0.97) | 1.11 (0.69, 1.79) | 0.87 (0.51, 1.49) | 0.140 |
| Walnut |  |  |  |  |  |
| No. of participants | 1661 | 2922 | 879 | 1732 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 1.02 (0.90, 1.17) | 1.00 (0.83, 1.19) | 1.00 (0.86, 1.16) | 0.821 |
| Model 1 | 1 (Ref.) | 0.91 (0.64, 1.29) | 0.81 (0.52, 1.26) | 0.75 (0.48, 1.17) | 0.097 |
| Model 2 | 1 (Ref.) | 0.95 (0.67, 1.34) | 0.85 (0.54, 1.32) | 0.79 (0.50, 1.24) | 0.140 |
| Almond |  |  |  |  |  |
| No. of participants | 2230 | 1580 | 1788 | 1596 |  |
| Range, g/day | 0 | 0-0.84 | 0.84-2.50 | >2.50 |  |
| Crude model | 1 (Ref.) | 1.00 (0.87, 1.16) | 1.06 (0.93, 1.22) | 1.03 (0.89, 1.19) | 0.507 |
| Model 1 | 1 (Ref.) | 1.18 (0.79, 1.78) | 1.20 (0.80, 1.81) | 1.13 (0.70, 1.84) | 0.659 |
| Model 2 | 1 (Ref.) | 1.13 (0.75, 1.71) | 1.18 (0.78, 1.78) | 1.08 (0.66, 1.77) | 0.761 |
| Daily nut |  |  |  |  |  |
| No. of participants | 1990 | 2840 | 775 | 1589 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 1.08 (0.95, 1.23) | 1.11 (0.93, 1.33) | 1.12 (0.97, 1.29) | 0.174 |
| Model 1 | 1 (Ref.) | 1.62 (1.13, 2.34) | 1.59 (1.01, 2.52) | 1.50 (0.95, 2.35) | 0.179 |
| Model 2 | 1 (Ref.) | 1.65 (1.14, 2.38) | 1.61 (1.01, 2.57) | 1.52 (0.96, 2.41) | 0.210 |
| Total nut |  |  |  |  |  |
| No. of participants | 1691 | 1832 | 2205 | 1466 |  |
| Range, g/day | 0-7.14 | 7.14-15.00 | 15.00-35.84 | >35.84 |  |
| Crude model | 1 (Ref.) | 1.04 (0.90, 1.20) | 1.07 (0.93, 1.23) | 1.07 (0.91, 1.24) | 0.400 |
| Model 1 | 1 (Ref.) | 0.94 (0.65, 1.38) | 1.05 (0.66, 1.66) | 0.84 (0.45, 1.57) | 0.891 |
| Model 2 | 1 (Ref.) | 0.95 (0.65, 1.40) | 1.04 (0.65, 1.66) | 0.82 (0.43, 1.57) | 0.882 |

Model 1 was adjusted for age, BMI, blood pressure, serum concentrations of glucose, total cholesterol, triglyceride, high density lipoprotein cholesterol and individual nut items; model 2 included covariates in model 1 + physical activity, dietary intake of total energy, total carbohydrate, total protein and total fat, dietary intake of candies, meat (pork, beef, and mutton), soup (poultry and cattle broth, fish and shrimp soup), and seafood.

Supplementary Table 2 Odds Ratios with 95% Confidence Interval for hyperuricemia according to the quartile of individual nut and total nut intake, stratified by BMI.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Quartiles of individual nut | | | |  |
|  | Q1 | Q2 | Q3 | Q4 | *P* trend |
| **BMI≤24** |  |  |  |  |  |
| Peanut |  |  |  |  |  |
| No. of participants | 4328 | 2133 | 2548 | 2425 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.89 (0.80, 1.00) | 1.02 (0.92, 1.13) | 1.23 (1.11, 1.37) | 0.001 |
| Model 1 | 1 (Ref.) | 0.94 (0.74, 1.19) | 0.90 (0.70, 1.16) | 1.05 (0.78, 1.40) | 0.715 |
| Model 2 | 1 (Ref.) | 0.95 (0.74, 1.20) | 0.90 (0.70, 1.16) | 1.05 (0.76, 1.41) | 0.811 |
| Melon seed |  |  |  |  |  |
| No. of participants | 4113 | 2149 | 2606 | 2566 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.89 (0.80, 1.00) | 1.00 (0.90, 1.11) | 1.21 (1.09, 1.34) | 0.000 |
| Model 1 | 1 (Ref.) | 1.04 (0.81, 1.32) | 0.96 (0.74, 1.24) | 1.18 (0.88, 1.58) | 0.398 |
| Model 2 | 1 (Ref.) | 1.02 (0.79, 1.30) | 0.94 (0.72, 1.22) | 1.23 (0.92, 1.66) | 0.297 |
| Pine nut |  |  |  |  |  |
| No. of participants | 3462 | 4028 | 1195 | 2749 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.87 (0.79, 0.96) | 1.03 (0.90, 1.18) | 1.11 (0.99, 1.23) | 0.006 |
| Model 1 | 1 (Ref.) | 0.89 (0.67, 1.18) | 0.90 (0.63, 1.31) | 0.77 (0.54, 1.12) | 0.201 |
| Model 2 | 1 (Ref.) | 0.88 (0.66, 1.16) | 0.89 (0.61, 1.28) | 0.71 (0.49, 1.03) | 0.081 |
| Pistachio |  |  |  |  |  |
| No. of participants | 3062 | 4062 | 1363 | 2947 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 0.90 (0.81, 0.99) | 1.01 (0.89, 1.16) | 1.13 (1.02, 1.26) | 0.004 |
| Model 1 | 1 (Ref.) | 1.03 (0.77, 1.39) | 1.13 (0.78, 1.64) | 1.40 (0.96, 2.06) | 0.088 |
| Model 2 | 1 (Ref.) | 1.07 (0.79, 1.44) | 1.20 (0.83, 1.75) | 1.45 (0.98, 2.14) | 0.066 |
| Cashew |  |  |  |  |  |
| No. of participants | 3321 | 4146 | 1226 | 2741 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.92 (0.84, 1.02) | 1.04 (0.90, 1.19) | 1.18 (1.06, 1.32) | 0.001 |
| Model 1 | 1 (Ref.) | 1.07 (0.78, 1.44) | 0.79 (0.53, 1.18) | 1.20 (0.80, 1.79) | 0.711 |
| Model 2 | 1 (Ref.) | 1.04 (0.76, 1.42) | 0.79 (0.53, 1.19) | 1.23 (0.81, 1.85) | 0.638 |
| Pecan |  |  |  |  |  |
| No. of participants | 3622 | 3949 | 1200 | 2663 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.90 (0.81, 0.99) | 1.12 (0.97, 1.28) | 1.09 (0.98, 1.21) | 0.037 |
| Model 1 | 1 (Ref.) | 0.80 (0.59, 1.09) | 1.14 (0.78, 1.67) | 0.95 (0.64, 1.40) | 0.560 |
| Model 2 | 1 (Ref.) | 0.78 (0.57, 1.06) | 1.12 (0.76, 1.64) | 0.93 (0.63, 1.39) | 0.633 |
| Walnut |  |  |  |  |  |
| No. of participants | 2814 | 4095 | 1331 | 3194 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 0.89 (0.80, 0.98) | 0.98 (0.85, 1.12) | 1.04 (0.94, 1.16) | 0.177 |
| Model 1 | 1 (Ref.) | 0.83 (0.63, 1.10) | 0.85 (0.60, 1.19) | 0.70 (0.50, 0.99) | 0.032 |
| Model 2 | 1 (Ref.) | 0.87 (0.65, 1.14) | 0.88 (0.63, 1.24) | 0.73 (0.52, 1.03) | 0.047 |
| Almond |  |  |  |  |  |
| No. of participants | 3760 | 2073 | 2673 | 2928 |  |
| Range, g/day | 0 | 0-0.84 | 0.84-2.50 | >2.50 |  |
| Crude model | 1 (Ref.) | 0.89 (0.79, 0.99) | 0.97 (0.87, 1.08) | 1.12 (1.01, 1.24) | 0.029 |
| Model 1 | 1 (Ref.) | 1.24 (0.89, 1.73) | 1.28 (0.93, 1.77) | 1.15 (0.79, 1.68) | 0.662 |
| Model 2 | 1 (Ref.) | 1.22 (0.87, 1.70) | 1.29 (0.93, 1.78) | 1.13 (0.77, 1.65) | 0.715 |
| Daily nut |  |  |  |  |  |
| No. of participants | 3461 | 3940 | 1173 | 2860 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.96 (0.87, 1.06) | 1.12 (0.98, 1.29) | 1.16 (1.04, 1.29) | 0.010 |
| Model 1 | 1 (Ref.) | 1.18 (0.88, 1.57) | 1.21 (0.84, 1.74) | 1.05 (0.74, 1.51) | 0.823 |
| Model 2 | 1 (Ref.) | 1.17 (0.87, 1.57) | 1.19 (0.82, 1.72) | 1.05 (0.73, 1.50) | 0.939 |
| Total nut |  |  |  |  |  |
| No. of participants | 2772 | 2482 | 3357 | 2823 |  |
| Range, g/day | 0-7.14 | 7.14-15.00 | 15.00-35.84 | >35.84 |  |
| Crude model | 1 (Ref.) | 0.89 (0.79, 1.00) | 0.95 (0.85, 1.05) | 1.17 (1.05, 1.31) | 0.012 |
| Model 1 | 1 (Ref.) | 1.02 (0.77, 1.36) | 0.96 (0.68, 1.37) | 0.80 (0.50, 1.27) | 0.358 |
| Model 2 | 1 (Ref.) | 1.03 (0.76, 1.37) | 0.96 (0.67, 1.37) | 0.80 (0.49, 1.28) | 0.389 |
| **BMI>24** |  |  |  |  |  |
| Peanut |  |  |  |  |  |
| No. of participants | 1030 | 426 | 547 | 619 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 1.07 (0.86, 1.32) | 1.00 (0.82, 1.22) | 1.03 (0.85, 1.25) | 0.303 |
| Model 1 | 1 (Ref.) | 0.87 (0.55, 1.35) | 0.83 (0.53, 1.30) | 0.86 (0.51, 1.45) | 0.607 |
| Model 2 | 1 (Ref.) | 0.85 (0.54, 1.36) | 0.82 (0.52, 1.29) | 0.87 (0.50, 1.52) | 0.564 |
| Melon seed |  |  |  |  |  |
| No. of participants | 978 | 430 | 559 | 655 |  |
| Range, g/day | <0.84 | 0.84-1.67 | 1.67-5.00 | >5.00 |  |
| Crude model | 1 (Ref.) | 0.98 (0.79, 1.22) | 0.90 (0.74, 1.09) | 1.03 (0.85, 1.25) | 0.418 |
| Model 1 | 1 (Ref.) | 1.17 (0.73, 1.87) | 1.02 (0.63, 1.63) | 0.91 (0.54, 1.53) | 0.658 |
| Model 2 | 1 (Ref.) | 1.17 (0.72, 1.91) | 1.03 (0.63, 1.68) | 0.88 (0.51, 1.53) | 0.545 |
| Pine nut |  |  |  |  |  |
| No. of participants | 939 | 799 | 242 | 642 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.89 (0.74, 1.06) | 1.04 (0.79, 1.37) | 0.94 (0.78, 1.14) | 0.367 |
| Model 1 | 1 (Ref.) | 0.75 (0.44, 1.27) | 1.04 (0.51, 2.13) | 0.69 (0.34, 1.41) | 0.493 |
| Model 2 | 1 (Ref.) | 0.75 (0.44, 1.28) | 1.03 (0.49, 2.13) | 0.60 (0.28, 1.27) | 0.389 |
| Pistachio |  |  |  |  |  |
| No. of participants | 832 | 815 | 291 | 684 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 0.84 (0.70, 1.01) | 0.98 (0.76, 1.26) | 0.89 (0.73, 1.08) | 0.471 |
| Model 1 | 1 (Ref.) | 0.73 (0.42, 1.26) | 0.85 (0.42, 1.72) | 1.12 (0.57, 2.20) | 0.632 |
| Model 2 | 1 (Ref.) | 0.74 (0.43, 1.29) | 0.82 (0.40, 1.69) | 1.18 (0.59, 2.37) | 0.553 |
| Cashew |  |  |  |  |  |
| No. of participants | 883 | 805 | 267 | 667 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.89 (0.74, 1.07) | 0.94 (0.72, 1.22) | 0.98 (0.81, 1.19) | 0.226 |
| Model 1 | 1 (Ref.) | 1.01 (0.57, 1.80) | 0.87 (0.41, 1.85) | 0.86 (0.40, 1.83) | 0.571 |
| Model 2 | 1 (Ref.) | 1.10 (0.61, 1.98) | 1.01 (0.46, 2.20) | 1.03 (0.47, 2.28) | 0.839 |
| Pecan |  |  |  |  |  |
| No. of participants | 972 | 792 | 249 | 609 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.87 (0.73, 1.05) | 0.92 (0.70, 1.20) | 0.88 (0.73, 1.07) | 0.382 |
| Model 1 | 1 (Ref.) | 1.16 (0.65, 2.09) | 0.90 (0.42, 1.93) | 1.29 (0.60, 2.74) | 0.793 |
| Model 2 | 1 (Ref.) | 1.19 (0.66, 2.17) | 0.91 (0.42, 1.98) | 1.48 (0.67, 3.26) | 0.657 |
| Walnut |  |  |  |  |  |
| No. of participants | 759 | 831 | 300 | 732 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.57 | >3.57 |  |
| Crude model | 1 (Ref.) | 0.84 (0.69, 1.01) | 0.91 (0.70, 1.19) | 0.90 (0.74, 1.10) | 0.572 |
| Model 1 | 1 (Ref.) | 1.13 (0.69, 1.84) | 0.85 (0.45, 1.59) | 0.97 (0.55, 1.71) | 0.598 |
| Model 2 | 1 (Ref.) | 1.07 (0.65, 1.77) | 0.86 (0.45, 1.63) | 0.97 (0.54, 1.75) | 0.574 |
| Almond |  |  |  |  |  |
| No. of participants | 985 | 404 | 552 | 681 |  |
| Range, g/day | 0 | 0-0.84 | 0.84-2.50 | >2.50 |  |
| Crude model | 1 (Ref.) | 0.83 (0.67, 1.03) | 1.10 (0.90, 1.35) | 0.94 (0.78, 1.13) | 0.196 |
| Model 1 | 1 (Ref.) | 1.20 (0.63, 2.28) | 1.54 (0.83, 2.87) | 1.32 (0.68, 2.58) | 0.274 |
| Model 2 | 1 (Ref.) | 1.19 (0.63, 2.28) | 1.50 (0.80, 2.81) | 1.09 (0.54, 2.18) | 0.554 |
| Daily nut |  |  |  |  |  |
| No. of participants | 942 | 787 | 255 | 638 |  |
| Range, g/day | 0 | 0-1.67 | 1.67-3.34 | >3.34 |  |
| Crude model | 1 (Ref.) | 0.83 (0.69, 0.99) | 0.88 (0.67, 1.15) | 0.90 (0.74, 1.09) | 0.155 |
| Model 1 | 1 (Ref.) | 0.94 (0.55, 1.60) | 0.93 (0.47, 1.83) | 1.12 (0.59, 2.13) | 0.672 |
| Model 2 | 1 (Ref.) | 0.92 (0.53, 1.58) | 0.83 (0.41, 1.68) | 1.11 (0.56, 2.18) | 0.864 |
| Total nut |  |  |  |  |  |
| No. of participants | 706 | 519 | 709 | 688 |  |
| Range, g/day | 0-7.14 | 7.14-15.00 | 15.00-35.84 | >35.84 |  |
| Crude model | 1 (Ref.) | 0.98 (0.78, 1.21) | 0.97 (0.79, 1.18) | 0.96 (0.79, 1.18) | 0.281 |
| Model 1 | 1 (Ref.) | 1.10 (0.65, 1.86) | 1.03 (0.55, 1.94) | 0.97 (0.43, 2.19) | 0.984 |
| Model 2 | 1 (Ref.) | 1.08 (0.62, 1.87) | 1.02 (0.52, 1.99) | 0.97 (0.39, 2.39) | 0.878 |

Model 1 was adjusted for age, gender, blood pressure, serum concentrations of glucose, total cholesterol, triglyceride, high density lipoprotein cholesterol and individual nut items; model 2 included covariates in model 1 + physical activity, dietary intake of total energy, total carbohydrate, total protein and total fat, dietary intake of candies, meat (pork, beef, and mutton), soup (poultry and cattle broth, fish and shrimp soup), and seafood.