

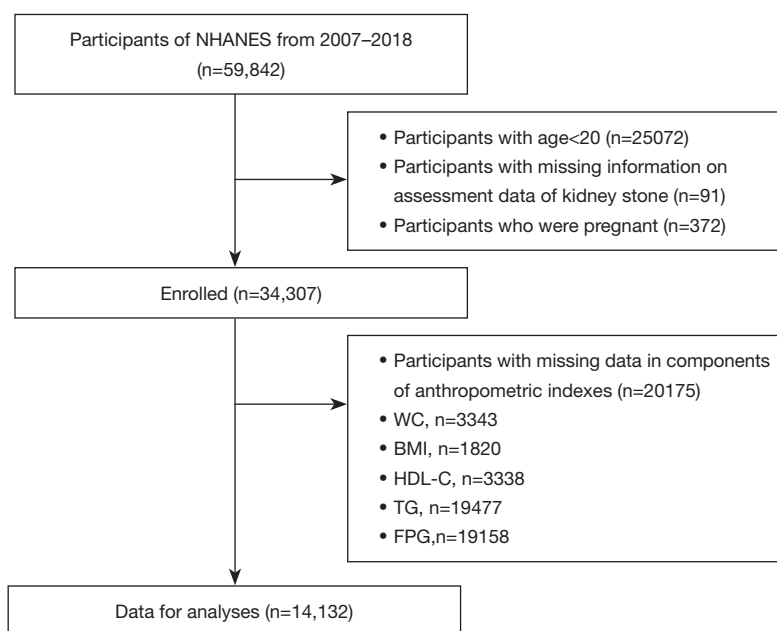


Figure S1 Flowchart of the study.

Table S1 Stratified analyses of the associations between quartiles of a body shape index (ABSI) and the prevalence of kidney stone among adults in NHANES 2007–2018

Subgroups	N	Quartiles of ABSI				P-int
		OR	OR (95% CI)	OR (95% CI)	OR (95% CI)	
Age, years						0.7
20-39	4540	1 [Reference]	1.307(0.932-1.832)	1.570(1.081-2.281)	1.626(0.866-3.052)	
40-59	4816	1 [Reference]	0.995(0.665-1.488)	1.044(0.730-1.494)	1.449(0.932-2.253)	
≥60	4776	1 [Reference]	1.164(0.651-2.082)	1.142(0.687-1.900)	1.264(0.744-2.145)	
Sex, %						0.01
Male	7213	1 [Reference]	1.220(0.878-1.697)	1.513(1.117-2.049)	1.325(0.892-1.967)	
Female	6919	1 [Reference]	1.140(0.827-1.572)	0.926(0.683-1.255)	1.544(1.048-2.275)	
Race, %						0.4
Non-Hispanic White	5845	1 [Reference]	1.312(0.974-1.767)	1.376(1.031-1.837)	1.649(1.146-2.375)	
Non-Hispanic Black	2825	1 [Reference]	1.271(0.803-2.011)	1.027(0.588-1.792)	1.325(0.740-2.371)	
Other race	5462	1 [Reference]	0.889(0.614-1.287)	1.011(0.733-1.394)	0.972(0.673-1.404)	
Marital status, %						0.9
Married/living with partner	8505	1 [Reference]	1.268(0.811-1.981)	1.194(0.793-1.797)	1.455(0.951-2.227)	
Single/divorced/widowed	5627	1 [Reference]	1.156(0.897-1.490)	1.275(0.976-1.666)	1.498(1.060-2.118)	
Family PIR, %						0.8
≤1.0	3079	1 [Reference]	1.484(0.881-2.501)	1.484(0.852-2.582)	1.904(1.206-3.006)	
1.1–3.0	6011	1 [Reference]	1.319(0.893-1.948)	1.493(1.056-2.109)	1.653(1.085-2.519)	
>3.0	5042	1 [Reference]	1.010(0.685-1.490)	1.020(0.725-1.434)	1.184(0.771-1.818)	
Education level, %						0.6
Below high school	3537	1 [Reference]	1.050(0.632-1.745)	1.031(0.574-1.852)	1.269(0.789-2.040)	
High school	3181	1 [Reference]	1.404(0.894-2.204)	1.006(0.670-1.509)	1.520(0.942-2.455)	
Above high school	7414	1 [Reference]	1.125(0.825-1.533)	1.364(1.036-1.797)	1.468(0.951-2.264)	
Smoking status, %						0.7
Nonsmokers	7838	1 [Reference]	1.010(0.749-1.362)	1.040(0.769-1.408)	1.255(0.889-1.772)	
Former smokers	3437	1 [Reference]	1.581(0.943-2.649)	1.803(1.128-2.884)	1.881(0.999-3.539)	
Current smokers	2857	1 [Reference]	1.552(0.892-2.702)	1.503(0.859-2.629)	2.320(1.293-4.165)	
Drinking status, %						0.8
Nondrinker	3129	1 [Reference]	1.515(0.936-2.450)	1.110(0.688-1.792)	1.658(0.987-2.783)	
Low-to-moderate drinker	9850	1 [Reference]	1.111(0.843-1.464)	1.264(0.978-1.633)	1.422(1.000-2.023)	
Heavy drinker	1153	1 [Reference]	1.411(0.591-3.366)	1.433(0.552-3.721)	1.371(0.463-4.065)	
Physical activity, %						0.2
Inactive	3600	1 [Reference]	1.442(0.793-2.623)	1.893(1.221-2.936)	1.913(1.130-3.240)	
Insufficiently active	4473	1 [Reference]	1.046(0.666-1.643)	1.049(0.666-1.652)	1.668(0.980-2.838)	
Active	6059	1 [Reference]	1.233(0.903-1.686)	1.198(0.845-1.698)	1.199(0.778-1.846)	
Self-reported CVD, %						0.1
No	12586	1 [Reference]	1.193(0.931-1.530)	1.307(1.069-1.598)	1.513(1.135-2.016)	
Yes	1546	1 [Reference]	0.855(0.391-1.870)	0.616(0.316-1.201)	0.815(0.383-1.734)	

Analyses were adjusted for covariates age (continuous), sex (male or female), race/ethnicity (Non-Hispanic White, Non-Hispanic Black, or Other race), marital status (married/living with partner, or single/divorced/widowed), education level (below high school, high school, or above high school), family PIR (≤ 1.0 , 1.1–3.0, or > 3.0), drinking status (nondrinker, low-to-moderate drinker, or heavy drinker), smoking status (never smoker, former smoker, or current smoker), physical activity (inactive, insufficiently active, or active), total energy intakes (in quartiles), serum calcium (continuous), serum phosphorus (continuous), eGFR (continuous), urinary creatinine (in quartiles) and self-reported CVD (yes or no) when they were not the strata variables. Odds ratios (ORs) and 95% confidence intervals (CIs) for the prevalence of kidney stones according to quartiles of a body shape index (ABSI). The three columns labeled “OR (95% CI)” represent the odds ratios for the second, third, and fourth quartiles of ABSI, respectively, compared with the first quartile (reference group). OR, Odd ratio; CI, confidence interval; PIR, poverty-to-income ratio; CVD, cardiovascular disease; *p-int*, *p* for interaction.

Table S2 Stratified analyses of the associations between quartiles of triglyceride-to-high-density lipoprotein cholesterol (TG/HDL-C) ratio and the prevalence of kidney stone among adults in NHANES 2007–2018

Subgroups	N	Quartiles of TG/HDL-C ratio				P-int
		OR	OR (95% CI)	OR (95% CI)	OR (95% CI)	
Age, years						0.5
20-39	4540	1 [Reference]	1.492(0.937,2.374)	1.641(0.985,2.735)	2.039(1.293,3.215)	
40-59	4816	1 [Reference]	0.979(0.678,1.414)	0.977(0.626,1.523)	1.081(0.756,1.546)	
≥60	4776	1 [Reference]	0.929(0.562,1.536)	1.133(0.731,1.754)	1.286(0.856,1.932)	
Sex, %						0.4
Male	7213	1 [Reference]	1.296(0.899,1.868)	1.352(0.924,1.978)	1.506(1.059,2.142)	
Female	6919	1 [Reference]	0.944(0.677,1.318)	1.120(0.767,1.634)	1.338(0.947,1.892)	
Race, %						0.9
Non-Hispanic White	5845	1 [Reference]	1.078(0.789,1.473)	1.124(0.823,1.533)	1.319(0.990,1.759)	
Non-Hispanic Black	2825	1 [Reference]	1.116(0.753,1.654)	1.280(0.853,1.920)	1.114(0.588,2.111)	
Other race	5462	1 [Reference]	1.008(0.600,1.693)	1.253(0.837,1.875)	1.408(0.917,2.161)	
Marital status, %						0.3
Married/living with partner	8505	1 [Reference]	1.220(0.795,1.873)	1.185(0.810,1.732)	1.692(1.118,2.560)	
Single/divorced/widowed	5627	1 [Reference]	0.995(0.734,1.348)	1.150(0.840,1.574)	1.185(0.885,1.587)	
Family PIR, %						0.3
≤1.0	3079	1 [Reference]	1.424(0.821,2.471)	1.200(0.701,2.053)	1.475(0.929,2.344)	
1.1–3.0	6011	1 [Reference]	0.895(0.595,1.347)	1.102(0.782,1.554)	1.441(1.016,2.044)	
>3.0	5042	1 [Reference]	1.080(0.741,1.575)	1.188(0.824,1.713)	1.180(0.819,1.701)	
Education level, %						0.091
Below high school	3537	1 [Reference]	1.342(0.745,2.419)	1.182(0.668,2.091)	1.480(0.820,2.668)	
High school	3181	1 [Reference]	1.096(0.619,1.938)	0.874(0.510,1.499)	0.818(0.514,1.303)	
Above high school	7414	1 [Reference]	1.041(0.740,1.466)	1.332(0.960,1.849)	1.602(1.133,2.267)	
Smoking status, %						0.1
Nonsmokers	7838	1 [Reference]	1.131(0.821,1.557)	1.262(0.895,1.779)	1.596(1.158,2.199)	
Former smokers	3437	1 [Reference]	0.867(0.525,1.431)	1.110(0.720,1.713)	0.925(0.567,1.510)	
Current smokers	2857	1 [Reference]	1.348(0.750,2.422)	1.101(0.623,1.943)	1.528(0.888,2.631)	
Drinking status, %						0.096
Nondrinker	3129	1 [Reference]	1.183(0.745,1.879)	0.907(0.545,1.509)	1.770(1.153,2.718)	
Low-to-moderate drinker	9850	1 [Reference]	1.100(0.799,1.515)	1.309(0.954,1.795)	1.239(0.913,1.682)	
Heavy drinker	1153	1 [Reference]	0.725(0.299,1.761)	0.737(0.324,1.675)	1.304(0.575,2.956)	
Physical activity, %						0.8
Inactive	3600	1 [Reference]	1.117(0.629,1.983)	1.151(0.761,1.742)	1.291(0.840,1.984)	
Insufficiently active	4473	1 [Reference]	1.155(0.707,1.887)	1.289(0.819,2.028)	1.244(0.772,2.005)	
Active	6059	1 [Reference]	0.999(0.700,1.426)	1.105(0.752,1.623)	1.467(1.032,2.084)	
Self-reported CVD, %						0.5
No	12586	1 [Reference]	1.059(0.806,1.392)	1.173(0.890,1.545)	1.277(0.992,1.645)	
Yes	1546	1 [Reference]	1.268(0.565,2.847)	1.121(0.537,2.342)	1.840(0.917,3.691)	

Analyses were adjusted for covariates age (continuous), sex (male or female), race/ethnicity (Non-Hispanic White, Non-Hispanic Black, or Other race), marital status (married/living with partner, or single/divorced/widowed), education level (below high school, high school, or above high school), family PIR (≤1.0, 1.1–3.0, or >3.0), drinking status (nondrinker, low-to-moderate drinker, or heavy drinker), smoking status (never smoker, former smoker, or current smoker), physical activity (inactive, insufficiently active, or active), total energy intakes (in quartiles), serum calcium (continuous), serum phosphorus (continuous), eGFR (continuous), urinary creatinine (in quartiles) and self-reported CVD (yes or no) when they were not the strata variables. Odds ratios (ORs) and 95% confidence intervals (CIs) for the prevalence of kidney stones according to quartiles of the triglyceride-to-high-density lipoprotein cholesterol (TG/HDL-C) ratio. The three columns labeled “OR (95% CI)” represent the odds ratios for the second, third, and fourth quartiles of the TG/HDL-C ratio, respectively, compared with the first quartile (reference group). OR, Odd ratio; CI, confidence interval; PIR, poverty-to-income ratio; CVD, cardiovascular disease; *p-int*, *p* for interaction.

Table S3 Stratified analyses of the associations between quartiles of triglyceride and glucose index (TyG) and the prevalence of kidney stone among adults in NHANES 2007–2018

Subgroups	N	Quartiles of TyG				P-int
		OR	OR (95% CI)	OR (95% CI)	OR (95% CI)	
Age, years						0.3
20-39	4540	1 [Reference]	1.107(0.700,1.750)	0.990(0.601,1.629)	2.085(1.372,3.169)	
40-59	4816	1 [Reference]	0.852(0.571,1.271)	1.039(0.678,1.594)	1.029(0.675,1.567)	
≥60	4776	1 [Reference]	0.847(0.554,1.296)	1.073(0.721,1.598)	1.289(0.875,1.898)	
Sex, %						0.8
Male	7213	1 [Reference]	0.944(0.677,1.315)	1.128(0.765,1.663)	1.300(0.904,1.870)	
Female	6919	1 [Reference]	0.958(0.657,1.397)	1.080(0.729,1.599)	1.486(1.000,2.209)	
Race, %						0.8
Non-Hispanic White	5845	1 [Reference]	0.911(0.670,1.238)	0.975(0.691,1.376)	1.265(0.948,1.688)	
Non-Hispanic Black	2825	1 [Reference]	0.884(0.554,1.412)	1.278(0.846,1.930)	1.091(0.590,2.018)	
Other race	5462	1 [Reference]	1.043(0.665,1.634)	1.356(0.889,2.069)	1.533(1.001,2.348)	
Marital status, %						0.9
Married/living with partner	8505	1 [Reference]	0.954(0.625,1.457)	1.197(0.780,1.839)	1.440(0.950,2.181)	
Single/divorced/widowed	5627	1 [Reference]	0.929(0.719,1.201)	0.988(0.726,1.344)	1.235(0.926,1.646)	
Family PIR, %						0.083
≤1.0	3079	1 [Reference]	1.484(0.873,2.520)	1.176(0.714,1.935)	1.284(0.783,2.105)	
1.1–3.0	6011	1 [Reference]	0.839(0.566,1.244)	0.927(0.625,1.375)	1.458(1.023,2.077)	
>3.0	5042	1 [Reference]	0.886(0.626,1.253)	1.132(0.810,1.582)	1.182(0.804,1.738)	
Education level, %						0.1
Below high school	3537	1 [Reference]	1.628(0.914,2.901)	1.524(0.925,2.512)	1.708(0.945,3.087)	
High school	3181	1 [Reference]	0.819(0.481,1.393)	0.701(0.413,1.190)	0.875(0.565,1.356)	
Above high school	7414	1 [Reference]	0.895(0.642,1.246)	1.143(0.806,1.622)	1.474(1.039,2.090)	
Smoking status, %						0.2
Nonsmokers	7838	1 [Reference]	1.038(0.745,1.447)	0.986(0.679,1.433)	1.579(1.118,2.229)	
Former smokers	3437	1 [Reference]	0.848(0.543,1.324)	1.083(0.731,1.605)	1.104(0.719,1.693)	
Current smokers	2857	1 [Reference]	0.789(0.453,1.374)	1.194(0.749,1.902)	1.044(0.619,1.761)	
Drinking status, %						0.8
Nondrinker	3129	1 [Reference]	1.099(0.668,1.807)	1.134(0.653,1.968)	1.712(1.115,2.628)	
Low-to-moderate drinker	9850	1 [Reference]	0.926(0.691,1.241)	1.037(0.759,1.415)	1.230(0.917,1.649)	
Heavy drinker	1153	1 [Reference]	0.678(0.274,1.676)	1.140(0.455,2.854)	1.079(0.433,2.693)	
Physical activity, %						0.9
Inactive	3600	1 [Reference]	0.878(0.525,1.468)	0.897(0.553,1.457)	1.319(0.837,2.080)	
Insufficiently active	4473	1 [Reference]	0.938(0.593,1.482)	1.110(0.692,1.781)	1.269(0.796,2.023)	
Active	6059	1 [Reference]	0.942(0.671,1.321)	1.091(0.745,1.598)	1.333(0.895,1.988)	
Self-reported CVD, %						0.3
No	12586	1 [Reference]	0.908(0.703,1.174)	1.008(0.765,1.328)	1.205(0.927,1.566)	
Yes	1546	1 [Reference]	1.326(0.628,2.801)	1.604(0.914,2.815)	2.229(1.250,3.973)	

Analyses were adjusted for covariates age (continuous), sex (male or female), race/ethnicity (Non-Hispanic White, Non-Hispanic Black, or Other race), marital status (married/living with partner, or single/divorced/widowed), education level (below high school, high school, or above high school), family PIR (≤1.0, 1.1–3.0, or >3.0), drinking status (nondrinker, low-to-moderate drinker, or heavy drinker), smoking status (never smoker, former smoker, or current smoker), physical activity (inactive, insufficiently active, or active), total energy intakes (in quartiles), serum calcium (continuous), serum phosphorus (continuous), eGFR (continuous), urinary creatinine (in quartiles) and self-reported CVD (yes or no) when they were not the strata variables. Odds ratios (ORs) and 95% confidence intervals (CIs) for the prevalence of kidney stones according to quartiles of the triglyceride-glucose index (TyG). The three columns labeled “OR (95% CI)” represent the odds ratios for the second, third, and fourth quartiles of TyG, respectively, compared with the first quartile (reference group). OR, Odd ratio; CI, confidence interval; PIR, poverty-to-income ratio; CVD, cardiovascular disease; *p-int*, *p* for interaction.

Table S4 Stratified analyses of the associations between quartiles of visceral adiposity index (VAI) and the prevalence of kidney stone among adults in NHANES 2007–2018

Subgroups	N	Quartiles of VAI				P-int
		OR	OR (95% CI)	OR (95% CI)	OR (95% CI)	
Age, years						0.1
20–39	4540	1 [Reference]	1.072(0.622,1.846)	1.896(1.138,3.159)	1.829(1.155,2.896)	
40–59	4816	1 [Reference]	1.580(1.041,2.397)	1.433(0.930,2.209)	1.436(0.968,2.131)	
≥60	4776	1 [Reference]	1.180(0.852,1.635)	1.190(0.858,1.651)	1.436(0.995,2.071)	
Sex, %						0.4
Male	7213	1 [Reference]	1.550(1.152,2.087)	1.597(1.107,2.305)	1.609(1.139,2.274)	
Female	6919	1 [Reference]	1.102(0.799,1.521)	1.375(0.975,1.939)	1.562(1.060,2.301)	
Race, %						0.6
Non-Hispanic White	5845	1 [Reference]	1.398(1.059,1.846)	1.445(1.075,1.942)	1.537(1.164,2.031)	
Non-Hispanic Black	2825	1 [Reference]	1.052(0.659,1.680)	1.032(0.694,1.533)	1.404(0.730,2.698)	
Other race	5462	1 [Reference]	1.056(0.652,1.709)	1.557(1.012,2.396)	1.506(0.976,2.323)	
Marital status, %						0.8
Married/living with partner	8505	1 [Reference]	1.295(0.817,2.052)	1.328(0.843,2.092)	1.618(1.020,2.568)	
Single/divorced/widowed	5627	1 [Reference]	1.306(1.007,1.694)	1.491(1.155,1.923)	1.461(1.109,1.924)	
Family PIR, %						0.2
≤1.0	3079	1 [Reference]	2.095(1.243,3.531)	2.682(1.655,4.348)	1.987(1.333,2.961)	
1.1–3.0	6011	1 [Reference]	1.085(0.708,1.663)	1.364(0.921,2.021)	1.534(1.086,2.167)	
>3.0	5042	1 [Reference]	1.335(0.976,1.827)	1.281(0.885,1.855)	1.420(0.972,2.074)	
Education level, %						0.019
Below high school	3537	1 [Reference]	1.680(0.897,3.146)	2.333(1.369,3.974)	1.583(0.895,2.801)	
High school	3181	1 [Reference]	1.133(0.668,1.921)	1.294(0.757,2.212)	0.901(0.563,1.441)	
Above high school	7414	1 [Reference]	1.344(1.002,1.803)	1.329(0.941,1.877)	1.880(1.370,2.579)	
Smoking status, %						0.2
Nonsmokers	7838	1 [Reference]	1.605(1.180,2.181)	1.654(1.192,2.295)	2.076(1.480,2.913)	
Former smokers	3437	1 [Reference]	1.087(0.691,1.711)	1.162(0.767,1.759)	1.029(0.676,1.566)	
Current smokers	2857	1 [Reference]	0.963(0.473,1.959)	1.483(0.815,2.701)	1.208(0.664,2.197)	
Drinking status, %						0.6
Nondrinker	3129	1 [Reference]	1.331(0.840,2.109)	1.295(0.752,2.230)	1.794(1.160,2.773)	
Low-to-moderate drinker	9850	1 [Reference]	1.269(0.950,1.694)	1.520(1.144,2.019)	1.429(1.074,1.900)	
Heavy drinker	1153	1 [Reference]	1.739(0.735,4.110)	1.203(0.500,2.892)	1.691(0.624,4.584)	
Physical activity, %						0.8
Inactive	3600	1 [Reference]	1.852(1.045,3.282)	1.834(1.074,3.130)	1.916(1.153,3.182)	
Insufficiently active	4473	1 [Reference]	1.246(0.786,1.974)	1.306(0.830,2.055)	1.564(0.962,2.543)	
Active	6059	1 [Reference]	1.160(0.805,1.671)	1.432(0.977,2.098)	1.394(0.973,1.996)	
Self-reported CVD, %						0.2
No	12586	1 [Reference]	1.251(0.984,1.590)	1.424(1.109,1.828)	1.404(1.097,1.798)	
Yes	1546	1 [Reference]	1.949(0.971,3.913)	1.595(0.858,2.968)	2.406(1.311,4.414)	

Analyses were adjusted for covariates age (continuous), sex (male or female), race/ethnicity (Non-Hispanic White, Non-Hispanic Black, or Other race), marital status (married/living with partner, or single/divorced/widowed), education level (below high school, high school, or above high school), family PIR (≤1.0, 1.1–3.0, or >3.0), drinking status (nondrinker, low-to-moderate drinker, or heavy drinker), smoking status (never smoker, former smoker, or current smoker), physical activity (inactive, insufficiently active, or active), total energy intakes (in quartiles), serum calcium (continuous), serum phosphorus (continuous), eGFR (continuous), urinary creatinine (in quartiles) and self-reported CVD (yes or no) when they were not the strata variables. Odds ratios (ORs) and 95% confidence intervals (CIs) for the prevalence of kidney stones according to quartiles of the visceral adiposity index (VAI). The three columns labeled “OR (95% CI)” represent the odds ratios for the second, third, and fourth quartiles of VAI, respectively, compared with the first quartile (reference group). OR, Odd ratio; CI, confidence interval; PIR, poverty-to-income ratio; CVD, cardiovascular disease; *p-int*, *p* for interaction.

Table S5 Stratified analyses of the associations between quartiles of waist triglyceride index (WTI) and the prevalence of kidney stone among adults in NHANES 2007–2018

Subgroups	N	Quartiles of WTI				P-int
		OR	OR (95% CI)	OR (95% CI)	OR (95% CI)	
Age, years						0.9
20-39	4540	1 [Reference]	1.222(0.750,1.992)	1.408(0.883,2.244)	1.917(1.286,2.858)	
40-59	4816	1 [Reference]	1.277(0.900,1.812)	1.409(0.971,2.045)	1.560(1.074,2.266)	
≥60	4776	1 [Reference]	0.972(0.651,1.452)	1.121(0.780,1.610)	1.343(0.894,2.019)	
Sex, %						0.7
Male	7213	1 [Reference]	1.293(0.947,1.765)	1.467(1.063,2.022)	1.756(1.248,2.471)	
Female	6919	1 [Reference]	1.116(0.790,1.576)	1.264(0.909,1.758)	1.567(1.085,2.265)	
Race, %						0.3
Non-Hispanic White	5845	1 [Reference]	1.310(0.991,1.731)	1.323(0.982,1.783)	1.595(1.195,2.130)	
Non-Hispanic Black	2825	1 [Reference]	1.000(0.577,1.732)	1.356(0.893,2.060)	1.573(0.848,2.918)	
Other race	5462	1 [Reference]	0.737(0.496,1.093)	1.153(0.759,1.752)	1.424(0.964,2.105)	
Marital status, %						0.4
Married/living with partner	8505	1 [Reference]	0.946(0.603,1.483)	1.280(0.849,1.930)	1.606(1.056,2.444)	
Single/divorced/widowed	5627	1 [Reference]	1.274(0.976,1.663)	1.287(0.973,1.702)	1.534(1.149,2.049)	
Family PIR, %						0.2
≤1.0	3079	1 [Reference]	1.492(0.913,2.439)	2.024(1.285,3.189)	1.492(0.917,2.428)	
1.1–3.0	6011	1 [Reference]	1.146(0.732,1.796)	1.055(0.732,1.521)	1.623(1.166,2.258)	
>3.0	5042	1 [Reference]	1.109(0.789,1.559)	1.306(0.923,1.847)	1.507(1.027,2.212)	
Education level, %						0.4
Below high school	3537	1 [Reference]	1.202(0.725,1.993)	1.467(0.902,2.386)	1.476(0.885,2.462)	
High school	3181	1 [Reference]	0.995(0.579,1.711)	1.159(0.695,1.934)	1.106(0.714,1.713)	
Above high school	7414	1 [Reference]	1.275(0.953,1.705)	1.300(0.956,1.769)	1.851(1.315,2.608)	
Smoking status, %						0.2
Nonsmokers	7838	1 [Reference]	1.311(0.974,1.765)	1.398(0.995,1.965)	1.979(1.424,2.752)	
Former smokers	3437	1 [Reference]	1.080(0.717,1.627)	1.262(0.860,1.851)	1.154(0.732,1.819)	
Current smokers	2857	1 [Reference]	0.881(0.481,1.615)	1.139(0.667,1.946)	1.328(0.765,2.306)	
Drinking status, %						0.8
Nondrinker	3129	1 [Reference]	1.190(0.728,1.945)	1.180(0.699,1.991)	1.788(1.179,2.712)	
Low-to-moderate drinker	9850	1 [Reference]	1.155(0.880,1.517)	1.381(1.016,1.878)	1.525(1.147,2.028)	
Heavy drinker	1153	1 [Reference]	1.143(0.480,2.724)	0.933(0.352,2.471)	1.374(0.541,3.489)	
Physical activity, %						0.6
Inactive	3600	1 [Reference]	1.135(0.639,2.018)	1.478(0.847,2.578)	1.651(0.986,2.765)	
Insufficiently active	4473	1 [Reference]	1.389(0.911,2.117)	1.144(0.705,1.855)	1.593(0.998,2.544)	
Active	6059	1 [Reference]	1.029(0.709,1.495)	1.314(0.908,1.902)	1.562(1.094,2.230)	
Self-reported CVD, %						0.2
No	12586	1 [Reference]	1.181(0.935,1.492)	1.285(0.997,1.656)	1.475(1.147,1.896)	
Yes	1546	1 [Reference]	1.048(0.599,1.836)	1.278(0.746,2.191)	1.959(1.195,3.211)	

Analyses were adjusted for covariates age (continuous), sex (male or female), race/ethnicity (Non-Hispanic White, Non-Hispanic Black, or Other race), marital status (married/living with partner, or single/divorced/widowed), education level (below high school, high school, or above high school), family PIR (≤1.0, 1.1–3.0, or >3.0), drinking status (nondrinker, low-to-moderate drinker, or heavy drinker), smoking status (never smoker, former smoker, or current smoker), physical activity (inactive, insufficiently active, or active), total energy intakes (in quartiles), serum calcium (continuous), serum phosphorus (continuous), eGFR (continuous), urinary creatinine (in quartiles) and self-reported CVD (yes or no) when they were not the strata variables. Odds ratios (ORs) and 95% confidence intervals (CIs) for the prevalence of kidney stones according to quartiles of the waist triglyceride index (WTI). The three columns labeled “OR (95% CI)” represent the odds ratios for the second, third, and fourth quartiles of WTI, respectively, compared with the first quartile (reference group). OR, Odd ratio; CI, confidence interval; PIR, poverty-to-income ratio; CVD, cardiovascular disease; *p-int*, *p* for interaction.

Table S6 Sensitivity analysis of OR (95% CIs) for the prevalence of kidney stones according to quartiles of six anthropometric indexes among adults with complete covariate data in NHANES 2007–2018 (n=11499)

Anthropometric		Quartiles of six anthropometric indexes				P _{trend}
Indexes	Quartile 1	Quartile 2	Quartile 3	Quartile 4		
ABSI						
Crude	1.00 [Reference]	1.537(1.204,1.962)	1.840(1.520,2.226)	2.485(1.921,3.215)	<0.001	
Model 1	1.00 [Reference]	1.283(1.000,1.646)	1.368(1.106,1.692)	1.585(1.166,2.155)	0.004	
Model 2	1.00 [Reference]	1.285(0.999,1.654)	1.342(1.086,1.659)	1.526(1.126,2.067)	0.008	
LAP						
Crude	1.00 [Reference]	1.616(1.205,2.168)	1.939(1.459,2.577)	2.463(1.919,3.162)	<0.001	
Model 1	1.00 [Reference]	1.384(1.033,1.855)	1.605(1.198,2.150)	1.940(1.497,2.514)	<0.001	
Model 2	1.00 [Reference]	1.299(0.974,1.732)	1.476(1.101,1.979)	1.747(1.356,2.252)	<0.001	
TG/HDL-C-C						
Crude	1.00 [Reference]	1.102(0.844,1.438)	1.342(1.029,1.751)	1.646(1.288,2.104)	<0.001	
Model 1	1.00 [Reference]	1.029(0.789,1.342)	1.213(0.930,1.582)	1.370(1.064,1.765)	0.006	
Model 2	1.00 [Reference]	0.983(0.752,1.286)	1.108(0.844,1.455)	1.241(0.962,1.601)	0.042	
TyG						
Crude	1.00 [Reference]	1.042(0.789,1.376)	1.316(1.000,1.731)	1.712(1.338,2.189)	<0.001	
Model 1	1.00 [Reference]	0.887(0.676,1.164)	1.065(0.810,1.400)	1.295(0.999,1.678)	0.014	
Model 2	1.00 [Reference]	0.864(0.654,1.140)	0.995(0.751,1.318)	1.219(0.943,1.574)	0.045	
VAI						
Crude	1.00 [Reference]	1.380(1.081,1.762)	1.581(1.235,2.025)	1.905(1.507,2.408)	<0.001	
Model 1	1.00 [Reference]	1.311(1.028,1.671)	1.442(1.122,1.854)	1.656(1.295,2.119)	<0.001	
Model 2	1.00 [Reference]	1.261(0.981,1.619)	1.318(1.023,1.697)	1.512(1.185,1.930)	0.002	
WTI						
Crude	1.00 [Reference]	1.274(1.001,1.621)	1.532(1.173,2.001)	2.060(1.618,2.622)	<0.001	
Model 1	1.00 [Reference]	1.116(0.870,1.430)	1.287(0.985,1.681)	1.614(1.247,2.090)	<0.001	
Model 2	1.00 [Reference]	1.056(0.825,1.353)	1.194(0.907,1.570)	1.496(1.168,1.915)	<0.001	

OR, Odd ratio; CI, confidence interval; ABSI, a body shape index; LAP, lipid accumulation products; TG/HDL-C, triglyceride-to-high-density lipoprotein cholesterol; TyG, triglyceride and glucose index; VAI, visceral adiposity index; WTI, waist triglyceride index. Data are presented as OR (95% CI) unless indicated otherwise; Model 1 was adjusted as age (continuous), sex (male or female), race/ethnicity (Non-Hispanic White, Non-Hispanic Black, or Other race), and marital status (married/living with partner, or single/divorced/widowed); Model 2 was adjusted as model 1 plus education level (below high school, high school, or above high school), family PIR (≤ 1.0 , 1.1–3.0, or >3.0), drinking status (nondrinker, low-to-moderate drinker, or heavy drinker), smoking status (never smoker, former smoker, or current smoker), physical activity (inactive, insufficiently active, or active), total energy intakes (in quartiles), serum calcium (continuous), serum phosphorus (continuous), eGFR (continuous), urinary creatinine (in quartiles) and self-reported CVD (yes or no).