

Supplemental Information

SUPPLEMENTAL TABLE 4 Adjusted Associations Between Each 1000 mg/d Increase in Sodium Intake and SDD of BP Among US Children and Adolescents Aged 12 to 18 Years, Based on 2 Models, Overall and by Weight Status, NHANES 2003–2008

Characteristics	Number of Participants	SDS of SBP		SDS of DBP	
		β -Coefficient (95% CI) per 1000 mg/d	<i>P</i> Value	β -Coefficient (95% CI) per 1000 mg/d	<i>P</i> Value
All	4352				
Model 1		0.158 (0.047 to 0.270)	.006	−0.055 (−0.188 to 0.077)	.404
Model 2		0.109 (0.06 to 0.212)	.039	−0.099 (−0.328 to 0.130)	.389
Weight status					
Normal weight	2613				
Model 1		0.073 (−0.049 to 0.195)	.233	−0.112 (−0.277 to 0.053)	.177
Model 2		0.052 (−0.084 to 0.189)	.445	−0.112 (−0.275 to 0.051)	.172
Overweight/obese	1739				
Model 1		0.269 (0.058 to 0.481)	.014	0.039 (−0.203 to 0.281)	.748
Model 2		0.219 (0.023 to 0.415)	.029	0.020 (−0.231 to 0.272)	.871

Model 1 adjusted for age, gender, race/ethnicity, and total energy intake. Model 2 adjusted for age, gender, race/ethnicity, weight status (normal, overweight, and obese except for the weight-stratified analyses where we include BMI as a continuous variable), physical activity, table-salt use, and estimated usual intakes of potassium. Physical activity was consistently measured among children aged ≥ 12 of age in NHANES 2003–2006, but the questions were modified in NHANES 2007–2008; thus, we adjusted for the modified questions to calculate the physical activity categories across the surveys. *P* values for usual intake of sodium by BMI interactions were .550 and .477 for SBP and DBP, respectively, based on Satterthwaite adjusted *F* test; all tests 2-tailed.

SUPPLEMENTAL TABLE 5 Adjusted ORs for Pre-HBP and HBP Among US Children and Adolescents Aged 12 to 18 Years, by Quartile of Usual Daily Sodium Intake, NHANES, 2003–2008

Characteristics	Midvalue of Quartiles of Estimated Usual Intake of Sodium in Population				<i>P</i> Value for Trend ^a	Total/OR per 1000 mg/d ^b	RERI (95% CI)
	Q1	Q2	Q3	Q4			
Total							
Usual intakes (range: 1334–8177)	2278	3057	3775	4879			
Model 1	1.0	1.31 (0.98 to 1.76)	1.68 (0.96 to 2.99)	2.47 (0.93 to 6.57)	.0686	1.42 (0.97 to 2.06)	0.36 (−0.05 to 1.48)
Model 2	1.0	1.19 (0.90 to 1.57)	1.40 (0.82 to 2.39)	1.80 (0.71 to 4.53)	.207	1.25 (0.88 to 1.79)	0.38 (−0.04 to 1.41)
Weight status							
Normal weight							
Usual intakes (range: 1354–8177)	2276	3055	3768	4862			
Model 1	1.0	1.01 (0.75 to 1.37)	1.03 (0.57 to 1.83)	1.05 (0.38 to 2.86)	.929	1.02 (0.69 to 1.50)	—
Model 2	1.0	0.98 (0.69 to 1.40)	0.97 (0.49 to 1.91)	0.94 (0.29 to 3.07)	.920	0.98 (0.62 to 1.54)	—
Overweight/obese							
Usual intakes (range: 1334–6862)	2281	3073	3800	4905			
Model 1	1.0	1.75 (1.15 to 2.65)	2.92 (1.31 to 6.48)	6.36 (1.60 to 25.21)	.010	2.02 (1.20 to 3.42)	—
Model 2	1.0	1.53 (1.05 to 2.21)	2.25 (1.11 to 4.59)	4.07 (1.19 to 13.92)	.026	1.71 (1.07 to 2.73)	—

Model 1 adjusted for age, sex, race/ethnicity, and total energy intake. Model 2 adjusted for age, gender, race/ethnicity, weight status (normal, overweight, and obese except for the weight-stratified analyses where we include BMI as a continuous variable), physical activity, table-salt use, and estimated usual intakes of potassium. Physical activity was consistently measured among children ≥ 12 y of age in NHANES 2003–2006, but the questions was modified in NHANES 2007–2008, we adjusted for the modified questions to calculate the physical activity categories across the surveys.

^a *P* value for trend across percentiles of estimated usual intake of sodium based on Satterthwaite adjusted *F* test; all tests two-tailed.

^b ORs are for per 1000 mg/d of estimated usual intake of sodium.

SUPPLEMENTAL TABLE 6 Adjusted Associations Between Each 1000 mg/d Increase in Sodium Intake and SDS of BP Among US Children and Adolescents With 3 Blood Pressure Measurements, Based on 2 Models, Overall and by Weight Status, NHANES 2003–2008

Characteristics	Number of Participants	SDS of SBP		SDS of DBP	
		β -Coefficient (95% CI) per 1000 mg/d	<i>P</i> Value	β -Coefficient (95% CI) per 1000 mg/d	<i>P</i> Value
All	4832				
Model 1		0.115 (−0.007 to 0.237)	.063	−0.085 (−0.213 to 0.042)	.185
Model 2		0.093 (−0.028 to 0.215)	.129	−0.080 (−0.209 to 0.049)	.218
Weight status					
Normal weight	2858				
Model 1		0.010 (−0.124 to 0.145)	.876	−0.167 (−0.325 to −0.008)	.040
Model 2		−0.014 (−0.152 to 0.125)	.844	−0.166 (−0.322 to −0.011)	.037
Overweight/obese	1974				
Model 1		0.263 (0.082 to 0.444)	.005	0.066 (−0.173 to 0.305)	.583
Model 2		0.196 (0.027 to 0.366)	.024	0.056 (−0.180 to 0.292)	.635

Model 1 adjusted for age, gender, race/ethnicity, and total energy intake. Model 2 adjusted for age, gender, race/ethnicity, weight status (normal, overweight, and obese except for the weight-stratified analyses for which we included BMI as a continuous variable), table-salt use, and estimated usual intakes of potassium. *P* values for usual intake of sodium by BMI interactions were 0.653 and 0.669 for SBP and DBP, respectively, based on Satterthwaite adjusted *F* test; all tests are 2-tailed.

SUPPLEMENTAL TABLE 7 Adjusted ORs for PHB and HBP Among US Children and Adolescents With 3 BP Measurements, by Quartile of Usual Daily Sodium Intake, NHANES, 2003–2008

Characteristics	Midvalue of Quartiles of Estimated Usual Intake of Sodium in Population				<i>P</i> Value for Trend ^a	Total/OR per 1000 mg/d ^b	RERI (95% CI)
	Q1	Q2	Q3	Q4			
Total (<i>n</i> = 4832)							
Usual intakes (range: 1334–8177)	2569	3073	3517	4303			
Model 1	1.0	1.29 (0.98 to 1.70)	1.63 (0.96 to 2.75)	2.31 (0.94 to 5.67)	.068	1.44 (0.97 to 2.14)	0.244 (−0.127 to 1.015)
Model 2	1.0	1.28 (0.98 to 1.67)	1.60 (0.96 to 2.66)	2.23 (0.93 to 5.36)	.073	1.42 (0.97 to 2.09)	0.242 (−0.129 to 1.036)
Weight status							
Normal weight (<i>n</i> = 2858)							
Usual intakes (range: 1354–8177)	2623	3120	3541	4420			
Model 1	1.0	1.05 (0.80 to 1.37)	1.10 (0.65 to 1.83)	1.17 (0.48 to 2.83)	.722	1.07 (0.73 to 1.58)	—
Model 2	1.0	1.00 (0.76 to 1.31)	0.99 (0.59 to 1.68)	0.99 (0.40 to 2.44)	.980	1.00 (0.67 to 1.48)	—
Overweight/obese (<i>n</i> = 1974)							
Usual intakes (range: 1334–6862)	2428	2955	3464	4115			
Model 1	1.0	1.67 (1.13 to 2.48)	2.65 (1.25 to 5.59)	5.31 (1.47 to 19.17)	.012	2.08 (1.18 to 3.65)	—
Model 2	1.0	1.50 (1.05 to 2.14)	2.15 (1.09 to 4.25)	3.72 (1.16 to 11.95)	.028	1.78 (1.07 to 2.97)	—