

Table S1. Characteristics of the full and analytical samples

Variables	Full sample		Analytical sample		p-value for difference ^b
	(n = 2098) ^a		(n = 1970)		
	Unweighted frequency	Weighted percentage	Unweighted frequency	Weighted percentage	
Sex					
Boys	984	48.8	928	48.4	0.854
Girls	1090	51.2	1042	51.6	
Age					
11 years old or younger	57	2.9	49	2.5	0.999
12 years old	156	10.2	145	10.2	
13 years old	314	18.2	294	18.1	
14 years old	331	11.7	313	11.6	
15 years old	338	11.5	314	11.3	
16 years old	386	18.1	367	18.4	
17 years old	292	15.6	281	16.0	
18 years old or older	220	11.9	207	12.0	
Number of days engaged in moderate- to vigorous-intensity physical activity for at least 60 minutes during the past week					
0 days	956	46.0	919	46.5	0.999
1 day	390	17.6	367	17.5	
2 days	182	8.9	168	8.6	
3 days	130	6.5	127	6.7	
4 days	83	4.7	81	4.7	
5 days	307	15.1	289	14.9	
6 days	7	0.4	6	0.3	
7 days	16	0.9	13	0.8	
Number of days engaged in muscle-strengthening activities during the past week					
0 days	819	39.2	782	39.2	1.000
1 day	356	17.5	344	17.8	
2 days	246	12.4	238	12.6	
3 days	175	8.4	161	8.0	
4 days	79	4.0	74	3.9	
5 days	91	4.1	86	4.1	
6 days	40	2.0	39	2.0	
7 days	258	12.5	246	12.4	
Number of days engaged in active school transport during the past week					
0 days	909	46.2	881	47.0	0.999

1 day	275	12.8	255	12.2	
2 days	177	8.1	170	8.2	
3 days	114	5.7	107	5.4	
4 days	63	2.9	57	2.8	
5 days	173	8.3	162	8.1	
6 days	30	1.4	28	1.4	
7 days	318	14.7	310	14.9	
Leisure-time sedentary behaviour during a typical or usual day					
Less than 1 hour per day	704	33.9	669	33.6	1.000
1 to 2 hours per day	479	21.7	460	21.8	
3 to 4 hours per day	293	14.9	278	14.9	
5 to 6 hours per day	163	8.2	157	8.3	
7 to 8 hours per day	124	6.2	121	6.4	
More than 8 hours per day	297	15.1	285	15.0	
Sleep duration on an average school night					
4 or less hours	380	18.9	363	18.8	0.999
5 hours	213	11.6	199	11.4	
6 hours	183	9.2	176	9.2	
7 hours	186	8.9	180	8.9	
8 hours	475	22.0	467	22.3	
9 hours	217	10.5	206	10.5	
10 or more hours	396	18.9	379	18.8	

^aVariable-specific missing data for full sample: sex (n = 24), age (n = 4), moderate- to vigorous-intensity physical activity (n = 27), muscle-strengthening activity (n = 34), active school transport (n = 39), leisure-time sedentary behaviour duration (n = 38), sleep duration (n = 48).

^bDifferences between the full and analytical samples were analysed using Chi-Squared statistics.

Table S2. Survey-weighted sex- and age-specific prevalence estimates of movement behaviours among adolescents in the Republic of Marshall Islands

	Physical activity				Leisure-time	Sleep
					sedentary behaviour	
	≥ 60 minutes of MVPA every day	≥ 60 minutes of MVPA ≥ 1 days/week	Muscle-strengthening activities ≥ 3 days/week	Active school transport ≥ 3 days/week	≥ 3 hours/day	≥ 9 hours/night for ages < 14y; ≥ 8 hours/night for ages ≥ 14y
Sex						
Boys	0.7 (0.0—1.4)	56.7 (53.0—60.4)	33.0 (29.6—36.5)	32.8 (26.4—39.2)	41.2 (37.6—44.9)	41.7 (37.8—45.7)
Girls	0.8 (0.1—1.5)	50.5 (46.4—54.6)	27.9 (24.3—31.5)	32.4 (27.5—37.3)	47.8 (43.0—52.6)	46.5 (41.7—51.4)
Absolute difference %	0.1 (p = 0.871)	6.2 (p = 0.034)	5.1 (p = 0.052)	0.4 (p = 0.894)	6.6 (p = 0.018)	4.8 (p = 0.110)
Age						
≤ 14 years old	0.8 (0.1—1.5)	48.9 (44.4—53.4)	27.8 (24.2—31.4)	30.1 (25.3—35.0)	38.1 (33.5—42.7)	32.4 (27.7—37.1)
> 14 years old	0.7 (0.2—1.3)	56.9 (53.2—60.6)	32.3 (28.6—36.0)	34.4 (28.4—40.3)	49.4 (44.9—53.9)	52.9 (48.5—57.3)
Absolute difference %	0.1 (p = 0.772)	8.0 (p = 0.012)	4.5 (p = 0.102)	4.3 (p = 0.121)	11.3 (p = 0.002)	20.5 (p < 0.001)

Note. Data are presented as percentage (95% confidence interval), unless otherwise indicated.

Abbreviations: MVPA, moderate- to vigorous-intensity physical activity.

Table S3. Survey-weighted generalised linear model estimates for movement behaviours by sex, age and sex x age interaction among adolescents in the Republic of Marshall Islands

	Physical activity				Leisure-time sedentary behaviour	Sleep
	≥ 60 minutes of MVPA every day	≥ 60 minutes of MVPA ≥ 1 days/week	Muscle-strengthening activities ≥ 3 days/week	Active school transport ≥ 3 days/week	≥ 3 hours/day	≥ 9 hours/night for ages < 14y; ≥ 8 hours/night for ages ≥ 14y
Sex						
Boys	Reference	Reference	Reference	Reference	Reference	Reference
Girls	3.44 (0.36—32.80)	1.15 (0.82—1.61)	1.01 (0.71—1.44)	1.25 (0.82—1.92)	1.55 (1.15—2.08)*	1.09 (0.72—1.64)
Age						
≤ 14 years old	Reference	Reference	Reference	Reference	Reference	Reference
> 14 years old	2.70 (0.66—11.04)	1.97 (1.41—2.75)*	1.53 (1.09—2.16)*	1.50 (1.09—2.07)*	1.84 (1.29—2.61)*	2.12 (1.50—2.99)*
Sex x Age	Wald t = -1.90, p = 0.062	Wald t = -2.99, p = 0.004	Wald t = -1.77, p = 0.081	Wald t = -1.78, p = 0.079	Wald t = -1.61, p = 0.113	Wald t = 0.86, p = 0.395
Stratification by sex and age[‡]						
Boys & ≤14 years old	-	Reference	Reference	Reference	-	-
Boys & >14 years old	-	1.97 (1.41—2.75)*	1.53 (1.09—2.16)*	1.50 (1.09—2.07)*	-	-
Girls & ≤14 years old	-	1.15 (0.82—1.61)	1.01 (0.71—1.44)	1.25 (0.82—1.92)	-	-
Girls & >14 years old	-	1.14 (0.83—1.57)	1.01 (0.74—1.39)	1.25 (0.86—1.80)	-	-

Note. Data are presented as odds ratio (95% confidence interval), unless otherwise indicated. Statistical significance was set at *p < 0.05 for main variables.

[‡]Stratified analyses were only conducted for variables with a significant sex x age interaction term (p < 0.10). Due to the very low prevalence estimates, stratified analysis was not performed for ‘≥ 60 minutes of MVPA every day’.

Abbreviations: MVPA, moderate- to vigorous-intensity physical activity.

Table S4. Survey-weighted prevalence estimates of movement behaviours among adolescents in the Republic of Marshall Islands, by sex-age groups

	Physical activity				Leisure-time	Sleep
					sedentary behaviour	
	≥ 60 minutes of MVPA every day	≥ 60 minutes of MVPA ≥ 1 days/week	Muscle-strengthening activities ≥ 3 days/week	Active school transport ≥ 3 days/week	≥ 3 hours/day	≥ 9 hours/night for ages < 14y; ≥ 8 hours/night for ages ≥ 14y
Boys & ≤14 years old	0.4 (0.3—1.1)	47.1 (41.3—52.9)	27.7 (23.1—32.2)	27.7 (20.1—35.3)	32.8 (26.9—38.8)	31.4 (25.6—37.3)
Boys & >14 years old	0.9 (0.1—1.8)	63.7 (58.7—68.6)	36.9 (31.7—42.3)	36.5 (29.6—43.4)	47.4 (42.6—52.1)	49.3 (43.9—54.5)
Girls & ≤14 years old	1.3 (0.0—2.5)	50.6 (44.3—56.9)	27.9 (22.6—33.3)	32.4 (27.1—37.8)	43.0 (37.6—48.5)	33.3 (26.3—40.2)
Girls & >14 years old	0.5 (0.2—1.1)	50.5 (44.9—56.0)	27.9 (23.1—32.7)	32.3 (25.7—38.9)	51.3 (44.8—57.8)	56.3 (50.9—61.6)

Note. Data are presented as percentage (95% confidence interval), unless otherwise indicated.

Abbreviations: MVPA, moderate- to vigorous-intensity physical activity.