Prevalence and socio-demographic distributions of meeting RMI Guidelines for Healthy Living among elementary school children in Majuro, Republic of Marshall Islands: A cross-sectional population-based survey

SUPPLEMENTARY MATERIAL

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Movement And Dietary Behaviour Survey

Physical Activity

Physical activity is any activity that increases your heart rate and makes you get out of breath some of the time. Physical activity can be done in sports, school activities, playing with friends, or walking to school.

Some more examples of physical activity include recreational swimming, social tennis, fast walking, dancing or bike riding; jogging, aerobics, fast cycling, circuit training, or organised sports like basketball or soccer.

							eal activity each day. Over the past 7 days, on how east 60 minutes per day?				
0	1	2 □	3 □	4 □	5 □	6 □	7 □				
we		es and s	quats; da	ınce; ma	rtial arts	or aerob	icles and bones include push ups, sit-ups, lifting ics class. During the past 7 days, on how many days nes?				
0	1 □	2 □	3 □	4 □	5 □	6 □	7 □				
Sitting sedents expendence for this tablet)	Sedentary Behaviour Sitting or lying down, (with the exception of sleeping), are what we call 'sedentary' behaviours. You can be sedentary at school, at home, when travelling or during leisure time. Sedentary behaviours require little energy expenditure. Examples of sedentary behaviour include: Sitting or lying down while watching television or playing electronic games. Sitting while being a passenger in a vehicle, or while travelling on a bus or train. Sitting or lying down to read, study, write, or work at a desk or computer. For this question add up all the time you spent watching TV/ videos/Internet (including on a smart phone or ablet) or playing video or computer games for entertainment each day. 3. Over the past 7 days, on how many days did you watch TV/ videos/ Internet (including on a smart phone or tablet) or play video or computer games for entertainment for less than two hours while sitting or lying down?										
0	1		3 □	4 □	5 □	6 □	7 □				
	:: nat time did	_pm			the lights	s out to g	o to sleep last night?				
5a. D	o you have	a consi	stent bed	ltime?			5b. Do you have a consistent wake-up time?				
☐ Yes, bedtime does not vary by more than 30 minutes each day					han 30 m	$\hfill\Box$ Yes, wake-up time does not vary by more than 30 minutes each day					
□ No. bedtime can vary more than 30 minutes each day					inutes ea	No, wake-up time can vary more than 30 minutes					

6. On a scale of 1 to 7, with the higher number indicating higher quality, how would you rate the quality of your sleep? 1 would indicate you find it very difficult to settle, wake many times during the night for prolonged periods and are very restless (tosses and turns, throw off bedclothes) while 7 would indicate you settle and drift off to sleep with a few minutes, sleep right through the night, and have a very sound, deep sleep)											
7. Do you use electronic screen devices (e.g. TV, video game, computer, tablet or smartphone) in the 2 hours before bedtime on a daily basis?											
☐ Yes If Yes, how close to bedtime d	☐ Yes ☐ No If Yes, how close to bedtime do you usually use these devices?										
	□ Closer than 30 minutes before bedtime										
	□ 30 mins to less than 1 hour before bedtime										
□ Between 1 and 2 hours before bedtime 8. Do you have electronic screen devices in the room where you sleep (e.g. TV, video game, computer, tablet or smartphone)?											
□ Yes □ No											
Dietary Behaviours											
ood Sources											
9. Do you take any food to school for: (Please tick all that apply)											
□ Breakfast □ I	☐ Breakfast ☐ Lunch ☐ Dinner ☐ Snacks ☐ None										
If Yes , on how many days per week? days 10. Do you ever get money to buy food?											
□ Yes □ No											
If Yes , on how many days pe	er week?	days									
11. This section asks about food that you eat on a typical day or in a typical week. A typical day/week means a 'normal' day/week when the family diet is not affected by cultural, religious, or other events. How often did you eat:											
	Every day	More than 3 times a week	Twice a week	Once a week	Never	Don't know					
Grains, roots and tubers (e.g. Bread, cereals, noodles, pasta, potatoes, rice)											
Legumes and nuts (e.g. Beans, peas, lentils, walnuts, or seeds)											
Dairy/milk products (e.g. Cheese, curd, custard, ice-cream, kefir, milk and yogurt.											

	Exception of butter and sour cream)										
	Fresh foods (e.g. meat, fish, poultry and liver/organ meats)			0							
	Eggs										
	Vitamin-A rich fruits and vegetables (e.g. green leafy vegetables, yellow and orange inside vegetables and orange non-citrus fruits)										
	Other fruits and vegetables (e.g. Apple, banana, orange, pear)										
Eatin	ting Behaviours At Home										
12a	How often is the TV or an electronic screen device on during meal or snack time?										
	□ Never □ Rarely □ Once a week □ Most days □ Every day □ Don't know										
12b	How often does a parent sit with you during meals?										
	□ Never □ Rarely □ Once a week □ Most days □ Every day □ Don't know										
12c	How often do all of the family sit together during a main meal?										
	□ Never □ Rarely □ Once a week □ Most days □ Every day □ Don't know										
12d	How often do you eat or drink different foods and beverages to what your parent eat during meal and snack times?										
	□ Never □ Rarely □ Once a week □ Most days □ Every day □ Don't know										
12e	How often do you have snacks like chips, biscuits, cakes, candies, chocolate, pastries, and sweets between meals?										
	□ Never □ Rarely □ Once a week □ Most days □ Every day □ Don't know										
12f	How often do you drink sugary drinks (e.g. Cordials, flavoured milk, fruit juice, soda, soft drink)?										
	□ Never □ Rarely □ Once a week □ Most days □ Every day □ Don't know										
Food	Food Insecurity										
13a	In the past 12 months, were of money or other resources		en members o	f your househol	d skipped a m	eal or ate less	because of lack				
	□ Yes □ No		on't know	□ Refu	se to answer						
13b	If Yes , how often did the sho	ortage of food h	nappen in your	household in th	e past 12 mon	ths?					
	☐ Every month ☐ Every three months ☐ Every six months ☐ Only once in the last year										

Table S1 Descriptive statistics of the guideline measures for the analytical samples

	Overall			Gra	ade 3	Grade 5		
		Boys	Girls	Boys	Girls	Boys	Girls	
Accelerometry sample (n=762)								
Number of days of valid wear, M (SD)	5.9 (1.0)	5.7 (0.9)	5.6 (1.0)	5.9 (0.8)	5.8 (0.9)	6.0 (1.2)	6.1 (1.1)	
Valid wear time (h/day), M (SD)	23.8 (0.4)	23.8 (0.5)	23.8 (0.5)	23.8 (0.4)	23.8 (0.4)	23.9 (0.3)	23.9 (0.4)	
Sleep duration (min/day), M (SD)	489.8 (46.0)	488.7 (54.9)	503.2 (45.3)	493.1 (48.9)	493.3 (41.0)	476.8 (41.8)	485.2 (43.6)	
MVPA (min/day), M (SD)	98.3	118.2	95.2	111.8	87.6	105.1	80.0	
WVFA (IIIII/day), WI (SD)	(32.9)	(34.7)	(29.7)	(33.4)	(25.0)	(35.1)	(24.3)	
Questionnaire sample (n=753)	(32.7)	(34.7)	(2).1)	(33.4)	(23.0)	(33.1)	(24.3)	
Number of days/week spent doing bone-	5.3 (1.9)	6.0 (1.8)	6.0 (1.4)	5.8 (1.5)	5.6 (1.7)	4.6 (1.9)	4.4 (2.1)	
and muscle-strengthening activities ^a , M	` '	` /	` '	` /	` ,	,	` /	
(SD)								
Number of days/week with < 2 hours of	4.2 (2.3)	4.5 (2.5)	4.5 (2.4)	3.9 (2.3)	4.3 (2.2)	4.1 (2.3)	4.3 (2.2)	
recreational screen time ^b , M (SD)								
Having consistent bedtime (not vary by								
more than 30 min each day) ^c , n (%)	500 (50.4)	70 (50 F)	= 1 (== 0)	04.450.43	105 (50.5)	100 (50 0)	100 (50 0)	
Yes	528 (70.4)	53 (69.7)	74 (67.3)	94 (68.1)	107 (78.7)	100 (69.0)	100 (69.0)	
No	222 (29.6)	23 (30.3)	36 (32.7)	44 (31.9)	29 (21.3)	45 (31.0)	45 (31.0)	
Having consistent wake-up time (not vary by more than 30 min each day) ^c , n (%)								
Yes	507 (67.6)	50 (65.8)	71 (64.5)	83 (60.6)	104 (75.9)	105 (72.4)	94 (64.8)	
No	243 (32.4)	26 (34.2)	39 (35.5)	54 (39.4)	33 (24.1)	40 (27.6)	51 (35.2)	
Screen time before bed ^d , n (%)	243 (32.4)	20 (34.2)	37 (33.3)	34 (37.4)	33 (24.1)	40 (27.0)	31 (33.2)	
No	203 (27.4)	19 (25.3)	21 (19.3)	34 (25.0)	44 (32.8)	40 (27.8)	45 (31.3)	
< 30 minutes before bedtime	256 (34.5)	32 (42.7)	49 (45.0)	39 (28.7)	41 (30.6)	44 (30.6)	51 (35.4)	
30 minutes to < 1 hour before bedtime	142 (19.1)	10 (13.3)	24 (22.0)	36 (26.5)	24 (17.9)	30 (20.8)	18 (12.5)	
Between 1 and 2 hours before bedtime	128 (17.3)	13 (17.3)	13 (11.9)	24 (17.6)	24 (17.9)	28 (19.4)	26 (18.1)	
Don't know	13 (1.8)	1 (1.3)	2 (1.8)	3 (2.2)	1 (0.7)	2 (1.4)	4 (2.8)	
Screens in bedroom ^e , n (%)								
Yes	498 (66.3)	52 (68.4)	73 (66.4)	80 (58.0)	91 (66.4)	99 (68.3)	103 (71.0)	
No	253 (33.7)	24 (31.6)	37 (33.6)	58 (42.0)	46 (33.6)	46 (31.7)	42 (29.0)	
Frequency of sugary drink consumption ^t , n								
(%)	41 (5.5)		((5.5)	0 (6 6)	0 (6 6)	F (2.4)	12 (9.2)	
Never	41 (5.5) 289 (38.6)	- 26 (47.4)	6 (5.5) 55 (50.0)	9 (6.6) 69 (50.7)	9 (6.6) 66 (48.2)	5 (3.4) 34 (23.4)	12 (8.3) 29 (20.0)	
Rarely Once a week	289 (38.0) 143 (19.1)	36 (47.4) 15 (19.7)	20 (18.2)	23 (16.9)	30 (21.9)	28 (19.3)	29 (20.0)	
Most days	158 (21.1)	15 (19.7)	19 (17.3)	19 (14.0)	16 (11.7)	45 (31.0)	44 (30.3)	
Every day	61 (8.1)	6 (7.9)	5 (4.5)	5 (3.7)	5 (3.6)	20 (13.8)	20 (13.8)	
Don't know	57 (7.6)	4 (5.3)	5 (4.5)	11 (8.1)	11 (8.0)	13 (9.0)	13 (9.0)	
Frequency of highly processed snacks	, ,	` /	` /	` '	, ,	` ′	` ′	
consumption ^f , n (%)								
Never	33 (4.4)	5 (6.6)	5 (4.5)	2 (1.5)	6 (4.4)	9 (6.2)	6 (4.1)	
Rarely	217 (29.0)	29 (38.2)	44 (40.0)	55 (40.4)	49 (35.8)	23 (15.9)	17 (11.7)	
Once a week	141 (18.8)	15 (19.7)	16 (14.5)	15 (11.0)	24 (17.5)	28 (19.3)	43 (29.7)	
Most days	215 (28.7)	15 (19.7)	27 (24.5)	31 (22.8)	39 (28.5)	49 (33.8)	54 (37.2)	
Every day	96 (12.8)	8 (10.5)	15 (13.6)	21 (15.4)	11 (8.0)	28 (19.3)	13 (9.0)	
Don't know	47 (6.3)	4 (5.3)	3 (2.7)	12 (8.8)	8 (5.8)	8 (5.5)	12 (8.3)	
Frequency of other fruits and vegetables consumption on a typical day/in a typical								
week ^f , n (%)								
Every day	313 (41.8)	21 (27.6)	46 (41.8)	49 (36.0)	46 (33.6)	68 (46.9)	83 (57.2)	
More than 3 times a week	219 (29.2)	32 (42.1)	39 (35.5)	37 (27.2)	40 (29.2)	34 (23.4)	37 (25.5)	
Twice a week	95 (12.7)	6 (7.9)	10 (9.1)	20 (14.7)	19 (13.9)	22 (15.2)	18 (12.4)	
Once a week	61 (8.1)	9 (11.8)	12 (10.9)	15 (11.0)	12 (8.8)	10 (6.9)	3 (2.1)	
Never	13 (1.7)	1 (1.3)	- ′	3 (2.2)	4 (2.9)	4 (2.8)	1 (0.7)	
Don't know	48 (6.4)	7 (9.2)	3 (2.7)	12 (8.8)	16 (11.7)	7 (4.8)	3 (2.1)	
Frequency of vitamin A-rich fruits and								
vegetables consumption on a typical								
day/in a typical weekg, n (%)								
Every day	188 (25.1)	12 (15.8)	24 (21.8)	22 (16.3)	30 (21.9)	45 (31.0)	55 (37.9)	
More than 3 times a week	155 (20.7)	16 (21.1)	24 (21.8)	25 (18.5)	26 (19.0)	29 (20.0)	35 (24.1)	
Twice a week	119 (15.9)	9 (11.8)	15 (13.6)	18 (13.3)	18 (13.1)	33 (22.8)	26 (17.9)	
Once a week	98 (13.1)	7 (9.2)	16 (14.5)	24 (17.8)	23 (16.8)	15 (10.3)	13 (9.0)	
Never	52 (7.0)	9 (11.8)	6 (5.5)	13 (9.6)	10 (7.3)	10 (6.9)	4 (2.8)	
Don't know Abbreviation: M mean: SD standard	136 (18.2)	23 (30.3)	25 (22.7)	33 (24.4)	30 (21.9)	13 (9.0)	12 (8.3)	

Abbreviation: M mean; SD standard deviation; MVPA moderate- to vigorous-intensity physical activity. Variable-specific missing data for full questionnaire sample: an=6, bn=8, cn=3, dn=11, en=2, fn=4, gn=5.