UAE Medical and Behavioral Paper 1

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1 Measurement of Weight Status

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We decided to use the International Obesity Task Force (IOTF) designation of weight status for the sample. They use smoothed, sex-specific BMI curves meant to match the BMI cutoffs for overweight (OW; 25 kg/m^2) and obesity (OB; 30 kg/m^2) at age 18 yrs.

Rather than BMI-zscore or BMI-percentile, we chose to use percent of overweight cutoff because recent studies shows it has a tighter association with measured adiposity:

BMI % of overweight =
$$\frac{childBMI}{BMI\ at\ age-\ and\ sex-\ adjusted\ overweight\ cutoff}*100$$

100

Percent of IOTF Overweight Cuttoff

 $<\!100~\%$ - indicates child BMI is below the overweight cutoff for age and sex (i.e., has healthy weight) 100 % - indicates child BMI is the same as the overweight cutoff for age and sex $>\!100~\%$ - indicates child BMI is above the overweight cutoff for age and sex (i.e., has overweight or obesity)

1.020 1.015 1.010 1.005 1.000 Distribution of Percent of Overweight Cuttoff factor(all_group) sex F M

Density plot of percent of overweight by sex. The shaded regions indicated those with healthy weight (blue), overweight (yellow), and obesity (red). The points show density of participants by sex (purple circles = female, orange triangles = males).

200

2 Participant Characteristics

Table 1: Demographic Characteristics by Weight Status

Characteristic	N	HW, $N = 41$	OW, N = 29	OB, $N = 37$
sex	107			
F		24 (59%)	14 (48%)	23 (62%)
M		17 (41%)	15 (52%)	14 (38%)
Age_yr	107	11.85 [8.02 - 17.37]	12.84 [8.15 - 17.54]	13.69 [7.31 - 17.84]
BMI	107	17.15 [12.71 - 22.72]	24.03 [18.70 - 28.86]	35.08 [21.87 - 55.52]
IOTF_pOWcutoff	107	80.86 [63.95 - 98.26]	109.66 [100.39 - 120.73]	155.80 [122.38 - 239.00]
Father_ed	102	12.79 [6.00 - 18.00]	13.60 [6.00 - 18.00]	12.20 [0.00 - 18.00]
Unknown		3	0	2
Mother_ed	99	13.38 [3.00 - 18.00]	13.93 [9.00 - 18.00]	12.40 [0.00 - 18.00]
Unknown		4	2	2
Month_AED	99			
<25,000 AED		10 (27%)	10 (34%)	11 (33%)
25,000 - 55,000 AED		21 (57%)	13 (45%)	19 (58%)
55,000 - 75,000 AED		2(5.4%)	3 (10%)	1 (3.0%)
> 75,000 AED		4 (11%)	3 (10%)	2(6.1%)
Unknown		4	0	4
DadNationality	101			
Emirati		40 (100%)	25 (96%)	33 (94%)
Omani		0 (0%)	1 (3.8%)	0 (0%)
Yemeni		0 (0%)	0 (0%)	2(5.7%)
Unknown		1	3	2
MomNationality	104			
Emirati		38 (93%)	26 (93%)	32 (91%)
Omani		0 (0%)	1 (3.6%)	0 (0%)
Yemeni		0 (0%)	0 (0%)	1(2.9%)
Moroccan		1 (2.4%)	0 (0%)	1 (2.9%)
Egyptian		2 (4.9%)	0 (0%)	1 (2.9%)
Bahrani		0 (0%)	1(3.6%)	0 (0%)
Unknown		0	1	2

¹ n (%); Mean [Range]

2.1 Associations between Demographics and Percent of Overweight Cutoff

2.1.1 t-test for sex

2.1.2 Correlation Matrix

Table 2: Correlations between percent of overweight cuttoff and demographic characteristics

	Age_yr	Father_ed	Mother_ed	IOTF_pOWcutoff
Age_yr				
$Father_ed$	-0.02			
$Mother_ed$	-0.2*	0.51*		
IOTF_pOWcutoff	0.26*	-0.07	-0.15	

Table 3: P-vales for the correlations between percent of overweight cuttoff and demographic characteristics

	Age_yr	Father_ed	Mother_ed	IOTF_pOWcutoff
Age_yr				
$Father_ed$	0.806			
$Mother_ed$	0.049	0		
IOTF_pOWcutoff	0.006	0.491	0.131	

Only child age was associated with percent of overweight cutoff - older children tended to have higher percent of overweight cutoff indicating older children were more likely to have overweight or obesity. There was no association with father or mother education level, which differs from finding in the US. Hip to waist ratio was also not associated with percent of overweight cutoff.

2.1.3 One-Way ANOVA for Income Categories

Residuals 136638 95

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

There was no difference in percent of overweight by monthly income category.

2.1.4 Sensitivity Tests

Table 4: Linear Model: pOWcutoff - SES category + Maternal Education + Age + Sex

	b	se	t	p	
(Intercept)	71.310	27.957	2.551	0.012	
Month_AED25,000 - 55,000 AED	9.699	8.663	1.120	0.266	
Month_AED55,000 - 75,000 AED	19.268	16.747	1.150	0.253	
$Month_AED > 75,000 AED$	2.047	15.847	0.129	0.898	
Mother_ed	-1.654	1.254	-1.319	0.191	
Age_yr	4.239	1.464	2.894	0.005	***
sexM	10.293	7.621	1.351	0.180	

After controlling for family income, mother education, and child sex, child age was significantly associated with percent of overweight such that for each year older, the expected percent of overweight is predicted to increase 4.24%.

3 Medical Comorbidities

Table 5: Medical Comorbidites by Weight Status

Characteristic	N	HW, $N = 41$	OW, $N = 29$	OB, $N = 37$
nComorbid VitDdeficiency Y	107 107	2.02 [0.00 - 4.00] 36 (88%)	2.24 [1.00 - 4.00] 29 (100%)	2.19 [0.00 - 4.00] 33 (89%)
N Anemia	39	5 (12%)	0 (0%)	4 (11%)
Iron Deficiency Anemia (ID) Thalassemia Minor (TM) G6PD ID + TM ID + G6PD Deficiency		9 (41%) 2 (9.1%) 0 (0%) 1 (4.5%) 1 (4.5%)	7 (70%) 1 (10%) 0 (0%) 1 (10%) 0 (0%)	5 (71%) 0 (0%) 0 (0%) 0 (0%) 0 (0%)
Unspecified Anemia Unknown Hyperlipidemia	12	9 (41%) 19	1 (10%) 19	2 (29%) 30
Hyperlipidemia Hyperlipidemia - Mixed		0 (NA%) 0 (NA%)	5 (100%) 0 (0%)	6 (86%) 1 (14%)
Unknown ThyroidConditions	25	41	24	30
Abnormal Function Autoimmune Thyroiditis Autoimmune Hypothyroidism		5 (71%) 1 (14%) 0 (0%)	4 (44%) 2 (22%) 0 (0%)	5 (56%) 2 (22%) 0 (0%)
Unspecified Hypothyroidism Goiter Unknown		1 (14%) 0 (0%) 34	2 (22%) 1 (11%) 20	2 (22%) 0 (0%) 28
GlycemicStatus Impaired Fasting Glucose	28	4 (57%)	8 (73%)	7 (70%)
Impaired Glucose Tolerance Test Type-1 Diabetes Unknown		2 (29%) 1 (14%) 34	2 (18%) 1 (9.1%) 18	3 (30%) 0 (0%) 27
Acanthosis Nigricans Unknown	8	1 (100%) 40	0 (NA%) 29	7 (100%) 30
Hypertension Essential Primary Hypertension High Blood Pressure Unknown	3	0 (NA%) 0 (NA%) 41	0 (NA%) 0 (NA%) 29	2 (67%) 1 (33%) 34
Metabolic Syndrome Unknown	2	1 (100%) 40	0 (NA%) 29	1 (100%) 36
Growth.Stature Failure To Thrive (FT) Growth Hormone Deficency Short Stature	10	1 (14%) 1 (14%) 3 (43%)	0 (0%) 0 (0%) 1 (100%)	0 (0%) 0 (0%) 2 (100%)
FT + ShortStature + Underweight Short Stature + Precocious Puberty Unknown PCOS	4	1 (14%) 1 (14%) 34	0 (0%) 0 (0%) 28	0 (0%) 0 (0%) 35
PCOS		1 (50%)	0 (NA%)	1 (50%)
$\begin{array}{l} {\rm Hirsutism} \\ {\rm Hirsutism} + {\rm Unspecified~Ovarian~Cysts} \\ {\rm Unknown} \end{array}$		0 (0%) 1 (50%) 39	0 (NA%) 0 (NA%) 29	1 (50%) 0 (0%) 35

¹ Mean [Range]; n (%)

3.1 Number of Comorbidites

3.1.1 mean (sd) number of comorbidites

- [1] 2.140187
- [1] 1.041122

3.1.2 Associaiton with Number of Comorbidities - Poisson

Table 6: Anemia Status by Weight Status

	b	e^b	se	e^2.5 CI	e^97.5 CI	Z	p
(Intercept)	0.636	1.888	0.214	1.241	2.874	2.969	0.003
$IOTF_pOWcutoff$	0.001	1.001	0.002	0.998	1.004	0.618	0.536

There was no association between percent of overweight cutoff and number of comorbidities

3.1.3 sex differences in number of comorbidites

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Welch Two Sample t-test
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F M 1.0747982 0.9888265

3.2 Distribution tests by Weight Status

3.2.1 Vitamin D

Fisher's Exact Test for Count Data

data: xtabs(~VitDdeficiency + IOTF_3class, data = UAE_allDat)
p-value = 0.132
alternative hypothesis: two.sided

3.2.2 Anemia

Table 7: Anemia Status by Weight Status

	HW	OW	ОВ
N	19	19	30
Y	22	10	7

Pearson's Chi-squared test

3.2.3 Hyperlipidemia

Table 8: Hyperlipidemia Status by Weight Status

	HW	OW	ОВ
N	41	24	30
Y	0	5	7

Fisher's Exact Test for Count Data

data: xtabs(~as.factor(ifelse(is.na(UAE_allDat\$Hyperlipidemia), "N", "Y")) + IOTF_3class, data = UAE_allDat\$Hyperlipidemia), "N", "Y")) + IOTF_3class, data = UAE_allDat\$Hyperlipidemia

alternative hypothesis: two.sided

3.2.4 Thyroid Conditions

Pearson's Chi-squared test

data: xtabs(~as.factor(ifelse(is.na(UAE_allDat\$ThyroidConditions), "N", "Y")) + IOTF_3class, data =
X-squared = 1.8782, df = 2, p-value = 0.391

3.2.5 Glycemic Status

Pearson's Chi-squared test

data: xtabs(~as.factor(ifelse(is.na(UAE_allDat\$GlycemicStatus), "N", "Y")) + IOTF_3class, data = U.
X-squared = 3.8464, df = 2, p-value = 0.1461

3.3 Association between Comorbidities and Percent of Overweight Cutoff

3.3.1 t-tests for Presence/Absence of Comorbidities

Table 9: t-tests for percent of overweight by absence vs presence of medical comorbidity

	AbsentMean	PresentMean	t	df	pvalue	sig
VitD Deficiency	114.56	114.84	-0.02	9.25	0.984	
Anemia	121.75	102.07	2.73	79.91	0.008	**
Thyroid Dysfunction	113.40	118.44	-0.59	39.42	0.559	
Glycemic Status	112.51	120.43	-0.86	39.25	0.393	

Table 10: Standard deviations for percent of overweight by absence vs presence of anemia

	X
N	36.117
Y	35.779

There were no difference in percent of overweight cutoff by presence/absence of Thyroid dysfunction or impaired glucose function. However, those with anemia tended to have lower percent of overweight. The mean with anemia was 101% indicating children were overweight on average. The mean for those without anemia were 123%, indicating the children were above the overweight cutoff.

4 Family History

Table 11: Family History by Weight Status

Characteristic	N	HW, $N = 41$	OW, $N = 29$	OB, $N = 37$
Fam_OB_YN yes no Unknown nFam_Obesity	101 107	18 (49%) 19 (51%) 4 1.15 [0.00 - 6.00]	21 (72%) 8 (28%) 0 1.59 [0.00 - 4.00]	31 (89%) 4 (11%) 2 2.70 [0.00 - 7.00]
Mother Father Grandmother Grandfather Sister	107 107 107 107 107	5 (12%) 6 (15%) 11 (27%) 0 (0%) 5 (12%)	2 (6.9%) 4 (14%) 9 (31%) 2 (6.9%) 3 (10%)	11 (30%) 11 (30%) 13 (35%) 4 (11%) 8 (22%)
Brother Aunt Uncle Fam_ED_YN yes	107 107 107 96	5 (12%) 10 (24%) 5 (12%) 2 (5.6%)	3 (10%) 17 (59%) 6 (21%) 5 (19%)	17 (46%) 18 (49%) 18 (49%) 4 (12%)
no Unknown nFam_EatingDisorder Mother Father	107 107 107	34 (94%) 5 0.05 [0.00 - 1.00] 0 (0%) 0 (0%)	22 (81%) 2 0.28 [0.00 - 2.00] 0 (0%) 0 (0%)	29 (88%) 4 0.35 [0.00 - 7.00] 1 (2.7%) 2 (5.4%)
Grandmother Grandfather Sister Brother Aunt	107 107 107 107 107	1 (2.4%) 0 (0%) 1 (2.4%) 0 (0%) 0 (0%)	1 (3.4%) 1 (3.4%) 1 (3.4%) 1 (3.4%) 3 (10%)	2 (5.4%) 1 (2.7%) 0 (0%) 1 (2.7%) 4 (11%)
Uncle	107	0 (0%)	1 (3.4%)	2 (5.4%)

 $^{^{1}}$ n (%); Mean [Range]

4.1 Association with Yes/No Family History

4.1.1 t-tests for Yes/No History of Obesity

Welch Two Sample t-test

There was no differences in percent of overweight for those whose families had a history of eating disorder (reported by parent). There was a significant difference in percent of overweight between families that reported a history of obesity ('Yes') and those who did not ('No'). Those without a family history of obesity had a

Table 12: Standard deviations for percent of overweight by absence vs presence of family history of obesity

	Х
yes	38.383
no	23.871

mean percent of overweight equal to 94%, indicating the children had healthy weight on average. Children with a family history of obesity had a mean percent of overweight equal to 124%, indicating the children had overweight or obesity.

4.1.2 distribution test for Yes/Now History of Eating Disorders across Weight Status

Fisher's Exact Test for Count Data

data: xtabs(~IOTF_3class + Fam_ED_YN, data = UAE_allDat)

p-value = 0.2633

alternative hypothesis: two.sided

4.2 Family Members with History of Obesity

Table 13: Overall Family Relationship Categories with History of Obeisty

Characteristic	N	N = 107
Mother	107	18 (17%)
Father	107	21 (20%)
Grandmother	107	33 (31%)
Grandfather	107	6 (5.6%)
Sister	107	16 (15%)
Brother	107	25 (23%)
Aunt	107	45 (42%)
Uncle	107	29 (27%)
1 - (07)		

¹ n (%)

4.2.1 mean (sd) number of family relationship categories

[1] 1.803738

[1] 1.750683

4.2.2 Association with Number of Relative Categories with History of Obesity - Poisson

Table 14: Poisson Model: Number of Family Relationship Categories Obeisty - pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	${f z}$	p	
(Intercept)	-0.5512353	0.5762375	0.2254574	0.369320	0.8942968	-2.444964	0.0144866	*
IOTF_pOWcutoff	0.0093704	1.0094144	0.0016455	1.006104	1.0126204	5.694416	0.0000000	***

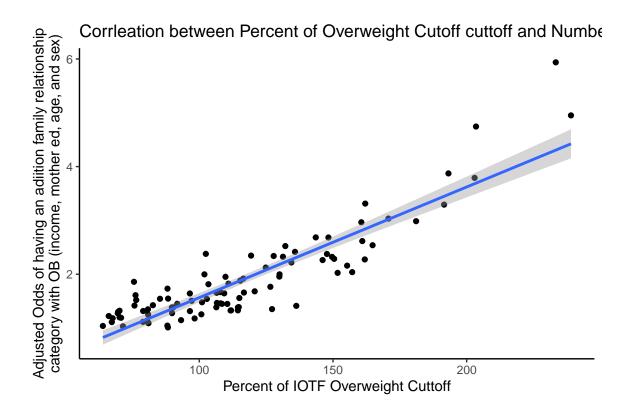
Percent of overweight cutoff was associated with reported number of relative categories with family history of obesity.

4.2.3 Sensitivity Tests

Table 15: Linear Model: Number of Family Relationship Categories Obesity - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	Z	р	
(Intercept)	-0.180	0.576	0.577	0.369	0.894	-0.313	0.754	
Month_AED25,000 - 55,000 AED	0.113	1.009	0.182	1.006	1.013	0.622	0.534	
Month_AED55,000 - 75,000 AED	0.380	0.576	0.307	0.369	0.894	1.239	0.215	
$Month_AED > 75,000 AED$	-0.127	1.009	0.372	1.006	1.013	-0.342	0.732	
$Mother_ed$	-0.029	0.576	0.024	0.369	0.894	-1.221	0.222	
Age_yr	0.011	1.009	0.031	1.006	1.013	0.335	0.738	
sexM	-0.111	0.576	0.159	0.369	0.894	-0.703	0.482	
IOTF_pOWcutoff	0.008	1.009	0.002	1.006	1.013	4.360	0.000	***

After controlling for family income, mother education, child age, and child sex, percent of overweight showed a trend-level association with number of family members with history of obesity. A child with 110% of overweight, compared to 100%, would have 1.08 times the odds of having an additional family member with a history of obesity.



4.3 Family Members with History of Eating Disorders

Table 16: Overall Family Relationship Categories with History of Eating Disorders

Characteristic	N	N = 107
Mother Father Grandmother Grandfather	107 107 107 107	1 (0.9%) 2 (1.9%) 4 (3.7%) 2 (1.9%)
Sister	107	2 (1.9%)
Brother Aunt Uncle	107 107 107	2 (1.9%) 7 (6.5%) 3 (2.8%)
1 n (%)		

¹ n (%)

4.3.1 mean (sd) number of family relationship categories

[1] 0.2149533

[1] 0.8358482

5 Sleep

Table 17: Sleep by Weight Status

Characteristic	N	HW, N = 41	OW, $N = 29$	OB, $N = 37$
Bedtime_28hr Unknown	97	21.62 (1.46) [19.00 - 25.00]	22.66 (1.96) [20.00 - 27.50] 4	22.60 (2.04) [19.00 - 28.00] 2
Waketime_24hr Unknown	100	6.53 (1.13) [5.00 - 10.50] 2	7.08 (2.10) [5.50 - 15.50] 4	7.09 (2.12) [5.00 - 14.00] 1
$Bedtime_Recommendation$	97			
N		15 (41%)	15 (60%)	24 (69%)
Y		22 (59%)	10 (40%)	11 (31%)
Unknown		4	4	2
Sleep_Recommendation N	99	17 (44%)	13 (52%)	17 (49%)
Y		22 (56%)	12 (48%)	18 (51%)
Unknown		2	4	2
Bed_hr	99	8.68 (1.88) [2.00 - 11.50]	8.48 (1.70) [5.00 - 12.00]	8.21 (1.30) [6.00 - 11.00]
Unknown CSHQ BedtimeResit	94	2 7.77 (2.41) [5.00 - 13.00]	4 6.91 (1.83) [5.00 - 11.00]	2 7.19 (2.08) [5.00 - 13.00]
Unknown		6	6	1
CSHQ_SleepOnsetDelay Unknown	100	1.51 (0.68) [1.00 - 3.00] 2	1.62 (0.85) [1.00 - 3.00] 3	2.09 (0.92) [1.00 - 3.00] 2
CSHQ_SleepDuration Unknown	99	4.55 (1.62) [3.00 - 8.00] 3	4.52 (1.85) [3.00 - 9.00] 4	4.89 (1.70) [3.00 - 9.00] 1
CSHQ_SleepAnxiety Unknown	98	6.13 (2.51) [4.00 - 12.00]	5.76 (2.52) [4.00 - 12.00]	5.14 (2.10) [4.00 - 11.00]
CSHQ_NightWaking_no16 Unknown	96	2.89 (1.41) [2.00 - 6.00]	2.75 (0.99) [2.00 - 6.00] 5	3.09 (1.29) [2.00 - 6.00]
CSHQ_Parasomnias	93	8.67 (2.33) [7.00 - 19.00]	8.58 (1.50) [7.00 - 12.00]	9.21 (2.61) [7.00 - 19.00]
Unknown		5	5	4
CSHQ_SleepDisorderBreathing Unknown	91	3.35 (1.11) [3.00 - 7.00] 4	3.65 (1.34) [3.00 - 8.00] 6	4.52 (1.88) [3.00 - 9.00] 6
CSHQ_DaytimeSleepiness Unknown	91	13.14 (4.09) [6.00 - 22.00] 5	11.67 (3.31) [7.00 - 18.00] 5	12.52 (2.80) [6.00 - 19.00] 6

¹ Mean (SD) [Range]; n (%)

Note: Bedtime_28hr was used to be able to look at bedtime continuously. Since the latest reported bedtime was 4am, the day was extended to 28 hours to so midnight = 24.00 and 4am = 28.00.

5.1 Overall Averages

Table 18: Overall average sleep

	mean	median	sd
Bed_hr	8.465	8.5	1.646
Bedtime_28hr	22.242	22.0	1.864
Waketime	6.869	6.5	1.794

5.2 Association Betwen Sleep Sub-Scales and Percent of Overweight Cutoff

5.2.1 Correlation Matrix - Sleep

Table 19: Correlations between sleep percent of overweight

	IOTF_pOWcutoff	Bed_hr	Bedtime_28hr	Waketime_24hr
IOTF_pOWcutoff				
$\operatorname{Bed}_{-}\operatorname{hr}$	-0.09			
$Bedtime_28hr$	0.13	-0.48*		
$Waketime_24hr$	0.06	0.31*	0.63*	

Table 20: Correlations between sleep percent of overweight

	$IOTF_pOWcutoff$	Bed_hr	$Bedtime_28hr$	$Waketime_24hr$
IOTF_pOWcutoff				
Bed _hr	0.392			
$Bedtime_28hr$	0.192	0		
$Waketime_24hr$	0.584	0.002	0	

Percent of overweight was not associated with bedtime, waketime, or total sleep.

5.2.2 t-tests for recommendation categories - Sleep

Table 21: Percent of Overweight by Sleep by Recommendations

	No	Yes	t	df	pvalue	sig
Sleep Duration Rec	116.35	112.56	0.50	96.13	0.6154	
Bedtime Rec	120.90	108.16	1.68	85.20	0.0975	

5.2.3 Correlation Matrix - Sleep Behavior

Table 22: Correlations between sleep subscales and percent of overweight

	$IOTF_pOWcutoff$	$\operatorname{BedResit}$	${\bf OnsetDelay}$	Duration	Anxiety	${\bf NightWaking}$	Parasomnias	Ι
IOTF_pOWcutoff								
$\operatorname{BedResit}$	-0.13							
OnsetDelay	0.31*	0.13						
Duration	0.04	0.41*	0.4*					
Anxiety	-0.18	0.62*	-0.1	0.02				
NightWaking	0.05	0.21	0.05	0.29*	0.23*			
Parasomnias	0.04	0.17	0.02	0.04	0.12	0.41*		
DisorderBreathing	0.37*	0.19	0.03	0.1	0.13	0.4*	0.43*	
DaySleepiness	-0.04	0.28*	0.16	0.21	0.28*	0.05	0.18	0
Total	0.1	0.63*	0.29*	0.47^{*}	0.52*	0.47^*	0.52*	C

Table 23: Correlations between sleep subscales and percent of overweight

	IOTF_pOWcutoff	BedResit	OnsetDelay	Duration	Anxiety	NightWaking	Parasomnias
IOTF_pOWcutoff							
$\operatorname{BedResit}$	0.207						
OnsetDelay	0.002	0.227					
Duration	0.679	0	0				
Anxiety	0.07	0	0.322	0.851			
NightWaking	0.61	0.051	0.621	0.005	0.025		
Parasomnias	0.692	0.108	0.833	0.693	0.256	0	
DisorderBreathing	0	0.074	0.785	0.344	0.222	0	0
DaySleepiness	0.676	0.011	0.127	0.052	0.008	0.622	0.101
Total	0.401	0	0.013	0	0	0	0

Examining correlations between sleep sub-scales and percent of overweight cutoff reveals greater percent of overweight cutoff was associated with greater parent reported sleep onset delay and sleep disordered breathing.

5.2.4 Sensitivity Tests

 $\begin{tabular}{ll} Table 24: Linear Model: Sleep Onset Delay - SES category + Maternal Education + Age + Sex + pOW cutoff \\ \end{tabular}$

	b	se	t	p	
(Intercept)	0.076	0.683	0.111	0.912	
Month_AED25,000 - 55,000 AED	-0.031	0.205	-0.149	0.882	
Month_AED55,000 - 75,000 AED	-0.082	0.390	-0.210	0.834	
$Month_AED > 75,000 AED$	-0.122	0.409	-0.299	0.766	
$Mother_ed$	0.008	0.029	0.261	0.795	
Age_yr	0.073	0.036	2.010	0.048	*
sexM	0.128	0.184	0.697	0.488	
$IOTF_pOWcutoff$	0.006	0.003	2.126	0.037	*

5.2.4.1 Sleep Onset Delay After controlling for family income, mother education, child age, and child sex, percent of overweight was positively associated with sleep onset delay such that a child with 110% of overweight, compared to 100% of overweight, would be expected to have a sleep onset delay score that was 0.06 points higher (range of scores = 0 - 3). Additionally, age was positively associated with sleep onset delay such that each year older, the expected sleep disordered breathing score would be 0.12 points higher (range of scores = 0 - 7).

Association between Percent of Overweight Cutoff and Sleep Onse

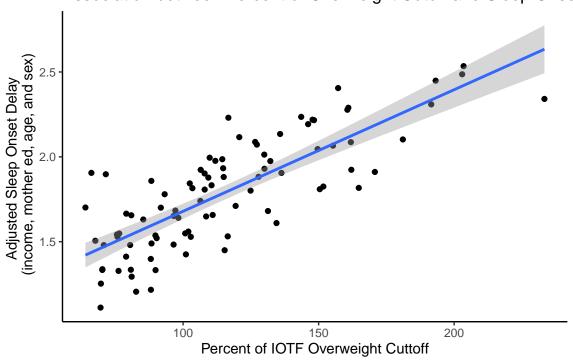
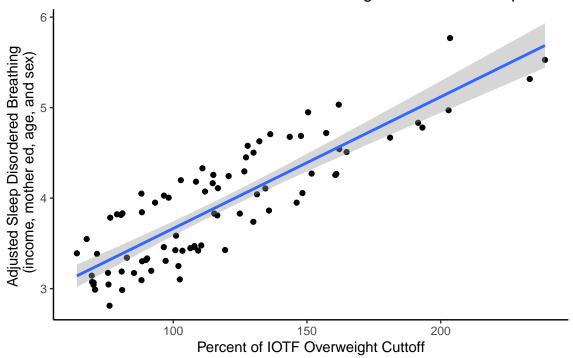


Table 25: Linear Model: Sleep Disordered Breathing - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	se	t	p	
(Intercept)	3.197	1.243	2.573	0.012	
Month_AED25,000 - 55,000 AED	-0.628	0.394	-1.591	0.116	
Month_AED55,000 - 75,000 AED	-0.885	0.715	-1.238	0.220	
$Month_AED > 75,000 AED$	0.202	0.790	0.255	0.799	
Mother_ed	-0.019	0.053	-0.362	0.718	
Age_yr	-0.038	0.072	-0.522	0.603	
sexM	-0.055	0.354	-0.154	0.878	
IOTF_pOWcutoff	0.016	0.005	3.255	0.002	**

5.2.4.2 Sleep Disordered Breathing After controlling for family income, mother education, child age, and child sex, percent of overweight was positively associated with sleep disordered breathing such that a child with 110% of overweight, compared to 100% of overweight, would be expected to have a sleep disordered breathing score that was 0.16 points higher (range of scores = 3 - 9).

Association between Percent of Overweight Cutoff and Sleep Disord



6 Strengths and Difficulties Questionnaire

Table 26: Strengths and Difficulties by Weight Status

N	HW, N = 41	OW, N = 29	OB, $N = 37$
104	3.05 [0.00 - 8.00]	3.00 [0.00 - 7.00]	3.43 [0.00 - 9.00]
	2	1	0
102	2.00 [0.00 - 7.00]	1.68 [0.00 - 5.00]	2.24 [0.00 - 6.00]
	1	1	3
103	3.65 [0.00 - 9.00]	3.07 [0.00 - 10.00]	3.46 [0.00 - 10.00]
102	2 2.71 [0.00 - 7.00]	2 2.97 [0.00 - 5.00]	0 3.46 [1.00 - 6.00] 2
102	8.47 [4.00 - 10.00]	8.82 [6.00 - 10.00]	8.11 [2.00 - 10.00]
	2	1	2
106	11.11 [0.00 - 29.00]	10.34 [4.00 - 20.00]	12.22 [3.00 - 23.00]
	1	0	0
93	27 (73%)	17 (68%)	19 (61%)
	5 (14%)	2 (8.0%)	5 (16%)
	3 (8.1%)	5 (20%)	4 (13%)
	2 (5.4%)	1 (4.0%)	3 (9.7%)
	4	4	6
104	24 (62%)	18 (64%)	20 (54%)
	7 (18%)	5 (18%)	7 (19%)
	5 (13%)	3 (11%)	6 (16%)
	3 (7.7%)	2 (7.1%)	4 (11%)
102	2	1	0
	26 (65%) 7 (18%) 6 (15%) 1 (2.5%)	21 (75%) 4 (14%) 3 (11%) 0 (0%) 1	22 (65%) 7 (21%) 4 (12%) 1 (2.9%) 3
103	29 (74%)	24 (89%)	32 (86%)
	1 (2.6%)	0 (0%)	0 (0%)
	8 (21%)	1 (3.7%)	3 (8.1%)
	1 (2.6%)	2 (7.4%)	2 (5.4%)
102	2	2	0
	17 (45%)	12 (41%)	11 (31%)
	10 (26%)	9 (31%)	11 (31%)
	7 (18%)	6 (21%)	7 (20%)
102	4 (11%) 3 30 (77%)	2 (6.9%) 0	6 (17%) 2 25 (71%)
	2 (5.1%)	2(7.1%)	1 (2.9%)
	5 (13%)	4 (14%)	6 (17%)
	2 (5.1%)	0 (0%)	3 (8.6%)
	2	1	2
	104 102 103 102 106 93 104 102	104	104

¹ Mean [Range]; n (%)

There were no differences by weight status.

Table 27: Strengths and Difficulties

Characteristic	N	N = 107
SDQ_TotalProb_cat CloseToAverage High SlightlyRaised VeryHigh	93	63 (68%) 12 (13%) 12 (13%) 6 (6.5%)
Unknown SDQ_EmotionProb_cat CloseToAverage High SlightlyRaised	104	14 62 (60%) 19 (18%) 14 (13%)
VeryHigh Unknown SDQ_ConductProb_cat CloseToAverage High	102	9 (8.7%) 3 69 (68%) 18 (18%)
SlightlyRaised VeryHigh Unknown SDQ_HyperactivityProb_cat CloseToAverage	103	13 (13%) 2 (2.0%) 5 85 (83%)
High SlightlyRaised VeryHigh Unknown SDQ_PeerProb_cat	102	1 (1.0%) 12 (12%) 5 (4.9%) 4
CloseToAverage High SlightlyRaised VeryHigh Unknown		40 (39%) 30 (29%) 20 (20%) 12 (12%) 5
SDQ_Prosocial_cat CloseToAverage Low SlightlyLowered VeryLow	102	77 (75%) 5 (4.9%) 15 (15%) 5 (4.9%)
Unknown		5

¹ n (%)

There were no differences by weight status.

6.1 Exploratory Sex x Percent of Overweight Models

6.1.1 Emotional Problems

Often complains of headaches

Many worries

Often unhappy, downhearted

Nervous or clingy in new situations

Many fears, easily scared

Table 28: Logistic Model: Emotional Problems (Elevated vs Not) - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	Z	p	
(Intercept)	-1.688	0.185	1.672	0.006	4.778	-1.010	0.313	
Month_AED25,000 - 55,000 AED	-0.352	0.703	0.526	0.249	1.989	-0.669	0.503	
Month_AED55,000 - 75,000 AED	0.324	1.383	0.988	0.190	10.184	0.328	0.743	
$Month_AED > 75,000 AED$	-0.387	0.679	0.933	0.099	4.124	-0.415	0.678	
$Mother_ed$	-0.005	0.995	0.074	0.857	1.152	-0.069	0.945	
Age_yr	0.137	1.147	0.095	0.954	1.389	1.443	0.149	
sexM	-0.792	0.453	0.525	0.155	1.235	-1.510	0.131	
IOTF_pOWcutoff_c100	-0.007	0.993	0.010	0.974	1.012	-0.720	0.471	
$sexM:IOTF_pOWcutoff_c100$	0.011	1.011	0.012	0.987	1.036	0.875	0.382	

6.2 Conduct Problems

Often has temper tantrums or hot tempers

Generally obedient - Reverse Scored

Often fights with other children

Often lies or cheats

Steals from home, school or elsewhere

Table 29: Logistic Model: Conduct Problems (Elevated vs Not) - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	\mathbf{z}	p
(Intercept)	0.554	1.740	1.740	0.057	5.520800e+01	0.318	0.750
Month_AED25,000 - 55,000 AED	0.013	1.013	0.531	0.359	2.932000e+00	0.024	0.981
Month_AED55,000 - 75,000 AED	0.369	1.446	1.049	0.155	1.134600e + 01	0.351	0.725
$Month_AED > 75,000 AED$	-16.635	0.000	1381.974	NA	3.271604e+40	-0.012	0.990
$Mother_ed$	-0.006	0.994	0.076	0.856	1.158000e+00	-0.085	0.932 .
Age_yr	-0.102	0.903	0.098	0.740	1.092000e+00	-1.032	0.302
sexM	-0.096	0.909	0.537	0.309	2.599000e+00	-0.178	0.858
IOTF_pOWcutoff_c100	0.011	1.011	0.010	0.992	1.032000e+00	1.155	0.248
$sexM:IOTF_pOWcutoff_c100$	-0.005	0.995	0.013	0.969	1.020000e+00	-0.420	0.675

6.2.1 Hyperactivity

Restless, overactive

Constantly fidgeting or squirming

Easily distracted, concentration wanders

Thinks things out before acting - Reverse Scored

Sees tasks through to the end - Reverse Scored

Table 30: Logistic Model: Hyperactivity Problems (Elevated vs Not) - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	Z	р
(Intercept)	0.989	2.689	2.182	0.037	2.194150e + 02	0.453	0.650
Month_AED25,000 - 55,000 AED	-0.817	0.442	0.670	0.115	1.660000e+00	-1.220	0.222
Month_AED55,000 - 75,000 AED	-16.836	0.000	1584.870	NA	$4.622569e{+}45$	-0.011	0.992
$Month_AED > 75,000 AED$	0.095	1.100	1.083	0.110	8.845000e+00	0.088	0.930
$Mother_ed$	0.011	1.011	0.096	0.840	1.233000e+00	0.110	0.912 .
Age_yr	-0.155	0.856	0.126	0.659	1.089000e+00	-1.234	0.217
sexM	-0.767	0.464	0.694	0.105	1.700000e+00	-1.106	0.269
IOTF_pOWcutoff_c100	-0.002	0.998	0.012	0.973	1.022000e+00	-0.156	0.876
$sexM:IOTF_pOWcutoff_c100$	0.008	1.008	0.017	0.973	1.042000e+00	0.453	0.651

6.2.2 Peer Problems

Rather solitary, tends to play alone

Has at least one good friend - Reverse Scored

Generally liked by other children - Reverse Scored

Picked on or bullied

Gets on better with adults than with other children

When examining odds of experiencing elevated peer problems, controlling for family income, mother education, child age, and child sex, percent of overweight, there was a significant sex x percent of overweight interaction.

Table 31: Logistic Model: Peer Problems (Elevated vs Not) - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	Z	p	
(Intercept)	0.048	1.049	1.806	0.030	38.161	0.026	0.979	
Month_AED25,000 - 55,000 AED	0.212	1.236	0.546	0.421	3.650	0.388	0.698	
Month_AED55,000 - 75,000 AED	2.186	8.896	1.294	0.931	215.972	1.689	0.091	
$Month_AED > 75,000 AED$	0.176	1.193	0.938	0.184	7.743	0.188	0.851	
$Mother_ed$	-0.151	0.860	0.087	0.716	1.011	-1.726	0.084	
Age_yr	0.152	1.164	0.101	0.959	1.431	1.497	0.134	
sexM	0.329	1.390	0.520	0.509	3.971	0.633	0.527	*
IOTF_pOWcutoff_c100	0.024	1.024	0.012	1.002	1.050	2.047	0.041	*
sexM:IOTF_pOWcutoff_c100	-0.030	0.970	0.014	0.942	0.997	-2.098	0.036	*

sex = F:

sex = M:

Results are averaged over the levels of: Month_AED

Confidence level used: 0.95

For females, a female child with 110% of overweight cutoff would have 1.27 times the odds of experiencing elevate peer problems than a female child with 100% of overweight cutoff. There was no association between percent of overweight cutoff and odds of peer problems in males.

6.3 Prosocial

Considerate of other people's feelings

Shares readily with other children

Helpful if someone is hurt

Kind to younger children

Often volunteers to help others

Table 32: Logistic Model: Prosocial Problems (Low vs Not) - SES category + Maternal Education + Age + Sex + pOWcutoff

	b	e^b	se	e^2.5 CI	e^97.5 CI	Z	p	
(Intercept)	-1.501	0.223	2.020	0.004	11.541	-0.743	0.457	
Month_AED25,000 - 55,000 AED	0.018	1.018	0.647	0.292	3.825	0.027	0.978	
Month_AED55,000 - 75,000 AED	-0.611	0.543	1.413	0.018	6.626	-0.433	0.665	
$Month_AED > 75,000 AED$	1.766	5.849	1.048	0.772	50.723	1.686	0.092	
$Mother_ed$	-0.037	0.964	0.085	0.810	1.139	-0.435	0.664	
Age_yr	0.072	1.075	0.117	0.855	1.359	0.615	0.538	
sexM	-1.479	0.228	0.772	0.041	0.908	-1.916	0.055	
IOTF_pOWcutoff_c100	-0.004	0.996	0.011	0.973	1.017	-0.384	0.701	
$sexM: IOTF_pOWcutoff_c100$	0.029	1.029	0.015	1.001	1.063	1.914	0.056	

7 Extra Tables by Sex

7.1 Participant Characteristics

Table 33: Demographic Characteristics by Sex

Characteristic	N	F	M	t-test	$\mathrm{chi}/\mathrm{fisher}$
Age_yr BMI IOTF_pOWcutoff	107 107 107	12.79 (2.84) [7.31 - 17.84] 24.85 (7.94) [12.71 - 47.60] 112.22 (31.68) [67.29 - 193.18]	12.70 (2.57) [8.04 - 17.54] 25.70 (10.34) [13.60 - 55.52] 117.71 (43.37) [63.95 - 239.00]	0.8747 0.6462 0.4709	
IOTF_WeightStatus Thinness2	107	1 (1.6%)	2 (4.3%)		0.4542
Thinness1 HW Overweight Obese MorbidlyObese		5 (8.2%) 18 (30%) 14 (23%) 11 (18%) 12 (20%)	3 (6.5%) 12 (26%) 15 (33%) 3 (6.5%) 11 (24%)		
Father_ed Unknown	102	13.08 (3.79) [0.00 - 18.00] 3	12.48 (3.14) [6.00 - 18.00] 2	0.3842	
Mother_ed Unknown	99	13.14 (3.56) [3.00 - 18.00] 4	13.24 (3.04) [0.00 - 18.00] 4	0.8836	
Month_AED	99				0.7446
<25,000 AED 25,000 - 55,000 AED 55,000 - 75,000 AED > 75,000 AED Unknown		15 (27%) 32 (57%) 4 (7.1%) 5 (8.9%) 5	16 (37%) 21 (49%) 2 (4.7%) 4 (9.3%) 3		
DadNationality Emirati Omani Yemeni Unknown	101	58 (97%) 1 (1.7%) 1 (1.7%)	40 (98%) 0 (0%) 1 (2.4%) 5		1
MomNationality Emirati Omani Yemeni Moroccan	104	55 (92%) 1 (1.7%) 0 (0%) 2 (3.3%)	41 (93%) 0 (0%) 1 (2.3%) 0 (0%)		0.5262
Egyptian Bahrani Unknown		2 (3.3%) 0 (0%) 1	1 (2.3%) 1 (2.3%) 2		

¹ Mean (SD) [Range]; n (%)

There were no differences by sex with the exception of females having a higher hip-to-waist ratio, which would be expected for this age range.

7.2 Medical Comorbidities

Table 34: Medical Comorbidities by Weight Status

Characteristic	N	F	M	t-test	chi/fisher
nComorbid VitDdeficiency Y N Anemia	107 107	2.25 (1.07) [0.00 - 4.00] 56 (92%) 5 (8.2%)	2.00 (0.99) [0.00 - 4.00] 42 (91%) 4 (8.7%)	0.2228	1 0.516
Iron Deficiency Anemia (ID) Thalassemia Minor (TM) G6PD ID + TM ID + G6PD Deficiency		13 (54%) 2 (8.3%) 0 (0%) 0 (0%) 1 (4.2%)	8 (53%) 1 (6.7%) 0 (0%) 2 (13%) 0 (0%)		
Unspecified Anemia Unknown Hyperlipidemia Hyperlipidemia Hyperlipidemia - Mixed	12	8 (33%) 37 8 (89%) 1 (11%)	4 (27%) 31 3 (100%) 0 (0%)		1
Unknown ThyroidConditions Abnormal Function Autoimmune Thyroiditis Autoimmune Hypothyroidism	25	52 10 (56%) 3 (17%) 0 (0%)	43 4 (57%) 2 (29%) 0 (0%)		1
Unspecified Hypothyroidism Goiter Unknown GlycemicStatus Impaired Fasting Glucose	28	4 (22%) 1 (5.6%) 43 9 (64%)	1 (14%) 0 (0%) 39 10 (71%)		0.6776
Impaired Glucose Tolerance Test Type-1 Diabetes Unknown Acanthosis Nigricans Unknown	8	3 (21%) 2 (14%) 47 6 (100%) 55	4 (29%) 0 (0%) 32 2 (100%) 44		
Hypertension Essential Primary Hypertension High Blood Pressure Unknown Metabolic Syndrome	3	1 (100%) 0 (0%) 60 1 (100%)	1 (50%) 1 (50%) 44 1 (100%)		
Unknown Growth.Stature Failure To Thrive (FT) Growth Hormone Deficency Short Stature	10	60 0 (0%) 0 (0%) 3 (75%)	45 1 (17%) 1 (17%) 3 (50%)		1
FT + ShortStature + Underweight Short Stature + Precocious Puberty Unknown PCOS PCOS	4	1 (25%) 0 (0%) 57 2 (50%)	0 (0%) 1 (17%) 40 0 (NA%)		
$\begin{array}{l} \mbox{Hirsutism} \\ \mbox{Hirsutism} + \mbox{Unspecified Ovarian Cysts} \\ \mbox{Unknown} \end{array}$		1 (25%) 1 (25%) 57	0 (NA%) 0 (NA%) 46		

¹ Mean (SD) [Range]; n (%)

Presence of different co-morbidities did not differ by sex, nor did the number of co-morbidities

7.3 Family History

Table 35: Family History by Sex

Characteristic	N	F	M	t-test	chi/fisher
Fam_OB_YN	101				0.8952
yes		41 (71%)	29 (67%)		
no		17 (29%)	14 (33%)		
Unknown		3	3		
nFam_Obesity	107	1.80 (1.80) [0.00 - 7.00]	$1.80 \ (1.71) \ [0.00 - 5.00]$	0.9975	
Mother	107	11 (18%)	7 (15%)		
Father	107	9 (15%)	12 (26%)		
Grandmother	107	19 (31%)	14 (30%)		
Grandfather	107	4 (6.6%)	2(4.3%)		
Sister	107	10 (16%)	6 (13%)		
Brother	107	15 (25%)	10 (22%)		
Aunt	107	26 (43%)	19 (41%)		
Uncle	107	16 (26%)	13 (28%)		
Fam_ED_YN	96				0.5174
yes		5 (8.9%)	6 (15%)		
no		51 (91%)	34 (85%)		
Unknown		5	6		
$nFam_EatingDisorder$	107	0.21 (0.97) [0.00 - 7.00]	$0.22 \ (0.63) \ [0.00 - 3.00]$	0.978	
Mother	107	1 (1.6%)	0 (0%)		
Father	107	1 (1.6%)	1 (2.2%)		
Grandmother	107	2 (3.3%)	2 (4.3%)		
Grandfather	107	2 (3.3%)	0 (0%)		
Sister	107	2(3.3%)	0 (0%)		
Brother	107	1 (1.6%)	1 (2.2%)		
Aunt	107	3 (4.9%)	4 (8.7%)		
Uncle	107	1 (1.6%)	2 (4.3%)		

¹ n (%); Mean (SD) [Range]

There were no differences by sex.

7.4 Sleep

Table 36: Sleep by Sex

Characteristic	N	F	M	t-test	chi/fisher
Bedtime_28hr Unknown	97	22.48 (1.98) [19.00 - 28.00] 5	21.91 (1.66) [19.00 - 25.50] 5	0.1288	
Waketime 24hr	100	7.22 (2.07) [5.00 - 15.50]	6.39 (1.19) [5.00 - 11.50]	0.0136	
Unknown		3	4		
$Bedtime_Recommendation$	97				0.1689
N		35 (62%)	19 (46%)		
Y		21 (38%)	22 (54%)		
Unknown		5	5		
Sleep_Recommendation	99				0.5578
N		29 (51%)	18 (43%)		
Y		28 (49%)	24 (57%)		
Unknown		4	4		
Bed_hr	99	8.55 (1.54) [6.00 - 12.00]	8.35 (1.80) [2.00 - 11.50]	0.548	
Unknown		4	4		
CSHQ_BedtimeResit	94	7.72 (2.10) [5.00 - 13.00]	6.85 (2.17) [5.00 - 13.00]	0.0559	
Unknown		8	5		
$CSHQ_SleepOnsetDelay$	100	1.69 (0.86) [1.00 - 3.00]	1.81 (0.83) [1.00 - 3.00]	0.486	
Unknown		3	4		
$CSHQ_SleepDuration$	99	4.86 (1.62) [3.00 - 9.00]	4.40 (1.80) [3.00 - 9.00]	0.1977	
Unknown		4	4		
CSHQ SleepAnxiety	98	6.02 (2.58) [4.00 - 12.00]	5.24 (2.05) [4.00 - 11.00]	0.0988	
Unknown		5	4		
CSHQ_NightWaking_no16	96	3.11 (1.36) [2.00 - 6.00]	2.68 (1.11) [2.00 - 6.00]	0.0935	
Unknown		6	5		
CSHQ_Parasomnias	93	8.75 (2.26) [7.00 - 19.00]	8.97 (2.26) [7.00 - 19.00]	0.6336	
Unknown		6	8		
$CSHQ_SleepDisorderBreathing$	91	3.75 (1.51) [3.00 - 9.00]	3.92 (1.60) [3.00 - 8.00]	0.6015	
Unknown		9	7		
$CSHQ_DaytimeSleepiness$	91	12.64 (3.35) [6.00 - 18.00]	12.39 (3.74) [6.00 - 22.00]	0.7468	
Unknown		8	8		

¹ Mean (SD) [Range]; n (%)

There were no differences by sex.

7.5 Strengths and Difficulties Questionnaire

Table 37: Strengths and Difficulty by Sex

Characteristic	N	F	M	t-test	$\mathrm{chi}/\mathrm{fisher}$
SDQ_EmotionProb_raw Unknown	104	3.54 (2.17) [0.00 - 9.00] 2	2.69 (2.22) [0.00 - 8.00] 1	0.053	
SDQ_ConductProb_raw Unknown	102	2.00 (1.66) [0.00 - 6.00] 2	1.98 (1.71) [0.00 - 7.00] 3	0.9454	
SDQ_HyperactiveProb_raw	103	3.12 (2.31) [0.00 - 10.00]	3.85 (2.37) [0.00 - 10.00]	0.1197	
Unknown SDQ_PeerProb_raw Unknown	102	2 2.85 (1.42) [0.00 - 5.00]	2 3.30 (1.49) [0.00 - 7.00] 3	0.1243	
SDQ_Prosocial_raw Unknown	102	8.38 (1.46) [4.00 - 10.00] 3	8.53 (1.93) [2.00 - 10.00] 2	0.6586	
SDQ_TotalProb_raw Unknown	106	11.13 (5.05) [0.00 - 23.00] 0	11.50 (5.65) [3.00 - 29.00] 1	0.7292	
SDQ_TotalProb_cat CloseToAverage High	93	37 (71%) 8 (15%)	26 (63%) 4 (9.8%)		0.4109
SlightlyRaised VeryHigh Unknown		5 (9.6%) 2 (3.8%) 9	7 (17%) 4 (9.8%) 5		
SDQ_EmotionProb_cat CloseToAverage	104	31 (53%)	31 (69%)		0.3472
High SlightlyRaised VeryHigh Unknown		13 (22%) 10 (17%) 5 (8.5%) 2	6 (13%) 4 (8.9%) 4 (8.9%) 1		
$SDQ_ConductProb_cat$	102				0.9767
CloseToAverage High SlightlyRaised VeryHigh Unknown		40 (68%) 11 (19%) 7 (12%) 1 (1.7%) 2	29 (67%) 7 (16%) 6 (14%) 1 (2.3%) 3		
SDQ_HyperactivityProb_cat CloseToAverage High SlightlyRaised VeryHigh	103	48 (81%) 0 (0%) 8 (14%) 3 (5.1%)	37 (84%) 1 (2.3%) 4 (9.1%) 2 (4.5%)		0.7044
Unknown SDQ_PeerProb_cat CloseToAverage High SlightlyRaised	102	2 23 (39%) 19 (32%) 13 (22%)	2 17 (40%) 11 (26%) 7 (16%)		0.3122
VeryHigh Unknown SDQ_Prosocial_cat CloseToAverage Low	102	4 (6.8%) 2 42 (72%) 3 (5.2%)	8 (19%) 3 35 (80%) 2 (4.5%)		0.4817
SlightlyLowered VeryLow Unknown		11 (19%) 2 (3.4%) 3	4 (9.1%) 3 (6.8%) 2		

¹ Mean (SD) [Range]; n (%)

There were no differences by sex.