

1 **Supplemental Table 1.** Distribution of demographic characteristics among children with
 2 Down syndrome (DS) with comparison between those who obtained a polysomnogram
 3 (PSG) and those who did not, including those referred or not referred for PSG.
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Patient Characteristic	PSG Obtained n=273	PSG Not Obtained n=187		p-value*
		Not Referred n=145	Referred n=42	
Male gender	136 (49.8%)	78 (53.8%)	28 (66.7%)	0.14
Mean age (SD) on 1/1/18 (years)	7.3 (1.9)	6.7 (1.8)	7.5 (1.9)	0.02
Race				0.02**
Caucasian	218 (79.9%)	112 (77.2%)	32 (76.2%)	
Black/African American	21 (7.7)	10 (6.9%)	8 (19.1%)	
Asian	6 (2.2)	4 (2.8%)	1 (2.4%)	
Other (includes multi-race)	24 (8.8)	3 (2.1%)	1 (2.4%)	
Unknown	4 (1.5)	16 (11%)	0	
Ethnicity-Hispanic	19 (7%)	5 (3.5%)	3 (7.1%)	0.36**
Unknown		5 (3.5%)		
Insurance status				0.27
Private insurance	177 (64.8%)	99 (68.3%)	23 (54.8%)	
Public insurance	82 (30)	39 (26.9%)	16 (38.1%)	
Unknown	14 (5.1)	7 (4.8%)	3 (7.1%)	
Median household income (USD)	63373 (19449)	65273 (22196)	56559 (22086)	0.03
SES index				0.18
Highest SES category (>75 th)	113 (42%)	67 (46.2%)	13 (40%)	
Upper 50 th	67 (24.9)	28 (19.3%)	9 (21.4%)	
Lower 50 th	44 (16.4)	30 (20.7%)	9 (21.4%)	
Lowest SES category (>25 th)	45 (16.7)	20 (13.8%)	11 (26.2%)	
Live within 25 miles of medical center	172 (63.7%)	44 (30.3%)	22 (52.4%)	0.009

5 PSG = polysomnogram; SD = standard deviation; USD = US dollars; SES =
 6 socioeconomic status; n = number of patients

7 *p-value represents comparison of the two PSG Not Obtained groups

8 **Fisher's Exact Test

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11 **Supplemental Table 2.** Comparison of documented comorbid medical conditions
 12 among children with Down syndrome (DS) who obtained a polysomnogram (PSG) and
 13 those who did not, including those referred or not referred for PSG.
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Comorbid Medical Condition	PSG Obtained n=273	PSG Not Obtained n=187		p-value
		Not Referred n=145	Referred n=42	
Congenital heart disease	59 (21.6%)	30 (20.7%)	14 (33.3%)	0.10
Hypothyroidism	51 (18.7%)	10 (6.9%)	6 (14.3%)	0.21
Pulmonary aspiration	28 (10.3%)	4 (2.8%)	3 (7.1%)	0.19
Asthma/Reactive airway disease	7 (2.6%)	1 (0.7%)	1 (2.4%)	0.40
Attention-deficit/ hyperactivity disorder	7 (2.6%)	0	1 (2.4%)	0.22
Autism spectrum disorder	8 (2.9%)	4 (2.8%)	0	0.58

15 *p-value represents comparison of the two PSG Not Obtained groups, Fisher's Exact
 16 Test reported
 17 PSG = polysomnogram; n = number of patients
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