

**Supplement 1: Demographics and socioeconomic status in families who refused or completed the telephone screener**

	Families who refused screener		Families who completed screener	
	Number with available data		Number with available data	
Percent of families with Caucasian mother	2783 families	96.12%	4461 families	97.31%
Percent Male children	15365 children	51.12%	22575 children	48.62%
Average age of all children	15365 children	18.13±5.89 years	22575 children	15.94±5.21 years
Average age of study eligible children	7189 children	12.83±3.09 years	14950 children	13.03±3.13 years
Percent Urban (vs. rural)	2847 families	64.17%	4510 families	69.49%
Mean Income <sup>a</sup>	2847 families	44293.62±17493.14	4510 families	46755.41±17490.30
% Caucasian <sup>a</sup>	2847 families	90.71%	4510 families	91.20%
<i>Average years of education<sup>a</sup></i>				
Male	2847 families	12.97±1.20years	4510 families	13.14±1.20 years
Female	2847 families	12.81±0.92 years	4510 families	12.91±0.92 years

<sup>a</sup>Within the family's postal code (zip code) area, based on the 2000 U.S. Census

**Supplement 2: Demographic characteristics of subjects aged 7 to 29 years**

Age group	N	Mean Age (SD)	Males (%)	Females (%)
<b><i>Subjects with complete screener data <sup>a</sup></i></b>				
Children	6936	10.14 (1.82)	3572 (51.50)	3364 (48.50)
Adolescents	8019	15.53 (1.41)	4147 (51.71)	3872 (48.29)
Adults	7401	21.57 (2.70)	3801 (51.36)	3600 (48.64)
<b><i>Subjects with complete SWAN and screener data <sup>b</sup></i></b>				
Children	2704	10.20 (1.78)	1383 (51.15)	1321 (48.85)
Adolescents	3483	15.52 (1.40)	1811 (52.00)	1672 (48.00)
Adults	3193	21.47 (2.64)	1622 (50.80)	1571 (49.20)

<sup>a</sup> Age at the time of screener used.

<sup>b</sup> Age at the time of SWAN used.

SWAN = Strengths and Weaknesses of ADHD-Symptoms and Normal-behavior

**Supplement 3: Prevalence of lifetime and current DSM-IV-like ADHD subtypes**

Age groups	Inattentive		Hyperactive-Impulsive		Combined	
	N	%	N	%	N	%
<b><i>Lifetime prevalence (Screener sample)<sup>a</sup></i></b>						
Children (n=6936)	536	7.73	122	1.76	240	3.46
Adolescents (n=8019)	765	9.54	58	0.72	237	2.96
Adults (n=7401)	497	6.72	46	0.62	174	2.35
<b><i>Lifetime prevalence (SWAN plus Screener sample)<sup>b</sup></i></b>						
Children (n=2704)	225	8.32	48	1.78	86	3.18
Adolescents (n=3483)	327	9.39	29	0.83	92	2.64
Adults (n=3193)	227	7.11	14	0.44	72	2.25
<b><i>Current prevalence (SWAN plus Screener sample)<sup>c</sup></i></b>						
Children (n=2704)	197	7.29	51	1.89	68	2.51
Adolescents (n=3483)	243	6.98	32	0.92	64	1.84
Adults (n=3193)	139	4.35	22	0.69	42	1.32

<sup>a</sup> -Lifetime DSM-IV-like ADHD diagnoses based on screener items for the individuals in the age range of 7-29.99 with complete Screener data.

<sup>b</sup> -Lifetime DSM-IV-like ADHD diagnoses based on screener items for the individuals in the age range of 7-29.99 with complete SWAN and Screener data.

<sup>c</sup> -Current DSM-IV-like ADHD diagnoses based on SWAN items for the individuals in age range of 7-29.99 with complete SWAN and Screener data

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**Supplement 4: Analysis of Variance of Strengths and Weaknesses of ADHD-Symptoms and Normal-behavior (SWAN) quantitative subscale scores**

Variable	Mean	(SD)	F	p
<b>Inattention</b>				
<i>Gender</i>			328.96	<0.0001
Males	-0.66	(1.22)		
Females	-1.12	(1.18)		
<i>Age group</i>			132.22	<0.0001
Children	-0.64	(1.15)		
Adolescents	-0.82	(1.24)		
Adults	-1.14	(1.22)		
<b>Hyperactivity- Impulsivity</b>				
<i>Gender</i>			183.58	<0.0001
Males	-0.85	(1.61)		
Females	-1.18	(1.15)		
<i>Age group</i>			85.83	<0.0001
Children	-0.78	(1.12)		
Adolescents	-1.02	(1.17)		
Adults	-1.18	(1.17)		
<b>Total Score</b>				
<i>Gender</i>			285.24	<0.0001
Males	-0.76	(1.12)		
Females	-1.15	(1.10)		
<i>Age group</i>			119.9	<0.0001
Children	-0.71	(1.07)		
Adolescents	-0.92	(1.12)		
Adults	-1.16	(1.13)		

**Supplement 5: Regression analysis for continuous and categorical variables in child, adolescent and adult age groups**

Variable		Children			Adolescents			Adults		
Dependent	Independent	Linear regression								
		$\beta$	SE <sup>a</sup>	<i>p</i>	$\beta$	SE <sup>a</sup>	<i>p</i>	$\beta$	SE <sup>a</sup>	<i>p</i>
Total quantitative score	Male sex	0.36	0.04	<b>&lt;0.001</b>	0.44	0.03	<b>&lt;0.001</b>	0.27	0.04	<b>&lt;0.001</b>
	Age	-0.03	0.01	<b>0.003</b>	-0.02	0.01	<b>0.015</b>	-0.01	0.00	0.123
Hyp/Imp Quantitative score	Male sex	0.34	0.04	<b>&lt;0.001</b>	0.35	0.03	<b>&lt;0.001</b>	0.28	0.04	<b>&lt;0.001</b>
	Age	-0.04	0.01	<b>&lt;0.001</b>	-0.03	0.01	<b>0.003</b>	-0.01	0.008	0.123
Inattention Quantitative score	Male sex	0.37	0.04	<b>&lt;0.001</b>	0.53	0.04	<b>&lt;0.001</b>	0.42	0.04	<b>&lt;0.001</b>
	Age	-0.01	0.01	0.148	-0.02	0.012	0.105	-0.04	0.008	<b>&lt;0.001</b>
Dependent	Independent	Logistic regression								
		OR	95%CI <sup>a</sup>	<i>P</i>	OR	95%CI <sup>a</sup>	<i>P</i>	OR	95%CI <sup>a</sup>	<i>P</i>
ADHD Diagnosis Current (SWAN)	Male sex	2.29	1.78-2.95	<b>&lt;0.001</b>	2.80	2.18-3.60	<b>&lt;0.001</b>	2.26	1.66-3.08	<b>&lt;0.001</b>
	Age	1.02	0.96-1.09	0.398	0.96	0.89-1.04	0.359	0.90	0.84-0.96	<b>0.001</b>
Inattentive ADHD subtype (SWAN)	Male sex	2.09	1.54-2.85	<b>&lt;0.001</b>	2.63	1.96-3.53	<b>&lt;0.001</b>	2.16	1.50-3.12	<b>&lt;0.001</b>
	Age	1.12	1.03-1.22	<b>0.006</b>	1.00	0.91-1.10	0.856	0.86	0.80-0.93	<b>&lt;0.001</b>
Hyp/Imp ADHD subtype (SWAN)	Male sex	2.11	1.10-4.04	<b>0.023</b>	1.77	0.85-3.70	0.126	1.70	0.71-4.07	0.233
	Age	0.88	0.76-1.02	0.095	0.95	0.76-1.20	0.725	0.92	0.78-1.08	0.321
Combined ADHD subtype (SWAN)	Male sex	2.51	1.48-4.27	<b>0.001</b>	3.74	2.02-6.92	<b>&lt;0.001</b>	2.76	1.37-5.55	<b>0.004</b>
	Age	0.94	0.78-1.03	0.156	0.82	0.68-0.99	<b>0.047</b>	1.004	0.90-1.1	0.928
ADHD Diagnosis Lifetime (Screener)	Male sex	2.26	1.79-2.85	<b>&lt;0.001</b>	3.13	2.51-3.91	<b>&lt;0.001</b>	2.13	1.65-2.74	<b>&lt;0.001</b>
	Age (screen) <sup>b</sup>	1.09	1.03-1.16	<b>0.003</b>	0.93	0.87-1.00	0.065	0.93	0.89-0.98	<b>0.005</b>

Note: Statistically significant *p*-values are shown in bold.

<sup>a</sup> Standard Error (SE) and 95% Confidence Interval (CI) adjusted for family clustering of data using “cluster” option in STATA 9.2

<sup>b</sup> When dependent variable is based on screener, age at time of screener is used. Otherwise, age at SWAN is used.

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