

SUPPLEMENT TO

Attention-Deficit/Hyperactivity Disorder Symptoms in a Non-referred Low Birthweight/Preterm Cohort:

Longitudinal Profiles, Outcomes and Associated Features

Krasner AJ, Turner JB, Feldman JF, Silberman AE,

Fisher PW, Workman CC, Posner JE, Greenhill LL,

Lorenz JM, Shaffer D, Whitaker AH

Corresponding author: Agnes H. Whitaker, M.D., New York State Psychiatric Institute, 1051 Riverside Drive, Unit 74, New York, New York 10032; telephone number 646-774-5757; fax number 646-774-5808; email address whitakea@nyspi.columbia.edu.

Supplement Table 1: Background Characteristics of the Study Sample and two Comparison Samples^a

Risk Factors	Comparison Samples			χ^2 / F	P
	Study Sample ^b	Missing 1 or 2 DISC	Missing all 3 DISC		
		Assessments ^c	Assessments ^d		
	% (n/N) M (SD) (N = 387)	% (n/N) M (SD) (N=190)	% (n/N) M (SD) (N = 237)		
Basic Characteristics					
Maternal Social Risk ^e	38.2 (148/387)	61.9 (117/189)	58.9 (139/236)	39.57	<0.001
Male Gender	51.7 (200/387)	50.5 (96/190)	48.9 (116/237)	0.44	0.802
Birth weight				1.77	0.777
1500+ g	54.3 (210/387)	57.9 (110/190)	52.3 (124/237)		
1000 – 1499 g	34.6 (134/387)	32.6 (62/190)	35.0 (83/237)		
< 1000 g (%)	11.1 (43/387)	9.5 (18/190)	12.7 (30/237)		
Gestational Age				5.24	0.514
> 36 weeks	4.1 (16/387)	5.3 (10/190)	6.3 (15/237)		
34 – 36 weeks	23.0 (89/387)	25.8 (49/190)	19.8 (47/237)		
32 – 33 weeks	26.6 (103/387)	29.5 (56/190)	26.6 (63/237)		
< 32 weeks	46.3 (179/387)	39.5 (75/190)	47.3 (112/237)		
Small (low weight) for Gestational Age (SGA)	30.5 (118/387)	35.3 (67/190)	35.9 (85/237)	2.41	0.300
US Abnormalities					
No Abnormality	81.7 (316/387)	83.7 (159/190)	79.3 (188/237)	1.48	0.831
Germinal Matrix / Intraventricular Hemorrhage	14.2 (55/387)	13.2 (25/190)	16.0 (38/237)		
Parenchymal Lesion / Ventricular Enlargement	4.1 (16/387)	3.2 (6/190)	4.6 (11/237)		
Other Early Medical Complications					
Multiple birth	52.2 (118/387)	23.8 (57/239)	20.6 (51/247)	8.33	0.016
Maternal Smoking in Pregnancy (# cigarettes/day)	3.8 (7.4)	3.5 (6.6)	4.1 (6.6)	0.30	0.738
Maternal Drinking of Alcohol in Pregnancy				12.92	0.012
None	47.7 (157/329)	60.9 (92/151)	52.9 (99/187)		
<7 drinks/wk and < 3 drinks/occasion	49.5 (163/329)	35.8 (54/151)	40.6 (76/187)		
7+ drinks/wk or 3+ drinks/occasion	2.7 (9/329)	3.3 (6/196)	6.4 (12/187)		

Supplement Table 1 (continued): Background Characteristics of the Study Sample and two Comparison Samples^a

Risk Factors	Comparison Samples			χ^2 / F	P
	Study Sample ^b	Missing 1 or 2	Missing all 3		
		DISC	DISC		
		Assessments ^c	Assessments ^d		
% (n/N) M (SD) (N = 387)	% (n/N) M (SD) (N=190)	% (n/N) M (SD) (N = 237)			
Hypertension				7.54	0.274
None	70.8 (274/387)	71.1 (135/190)	76.4 (181/237)		
Pre-hypertension	4.1 (16/387)	4.2 (8/190)	5.5 (13/237)		
PIH	7.5 (29/387)	10.5 (20/190)	7.2 (17/237)		
Pre-eclampsia	17.6 (68/387)	14.2 (27/190)	11.0 (26/237)		
Placenta previa	2.7 (10/369)	0.5 (1/183)	1.8 (4/225)	3.06	0.216
Placental Abruption	8.1 (30/369)	5.5 (10/183)	7.6 (17/225)	1.30	0.522
Chorioamnionitis	3.3 (12/369)	8.7 (16/183)	4.0 (9/225)	8.54	0.014
Active Labor	58.7 (225/383)	62.2 (115/185)	61.6 (141/229)	0.81	0.668
Non-vertex presentation	33.4 (105/314)	26.8 (40/149)	33.7 (63/187)	2.36	0.307
5-minute Apgar <=5	6.3 (24/379)	5.6 (10/180)	7.0 (16/229)	0.35	0.840
Head circumference ratio ^f	0.97 (0.07)	0.96 (0.07)	0.97 (0.07)	0.72	0.488
Small head circumference ^g	32.4 (124/383)	35.8 (68/190)	33.9 (80/236)	0.64	0.714
Base Excess (First Determination, mEq/L) ^h	-4.6 (4.2)	-4.7 (3.9)	-4.5 (3.7)	0.96	0.909
Seizure (First postpartum week)	0.5 (2/387)	2.1 (4/190)	0.4 (1/237)	4.52	0.104
Thyroxine Level (z-score)	-1.5 (1.0)	-1.4 (1.1)	-1.5 (1.1)	0.50	0.604
Cummulative hypocapnia (1st 8 days, mmHg x hours) ^h	139.1 (241.4)	103.6 (153.8)	138.9 (206.3)	1.60	0.204
Cummulative hyperoxia (1st 8 days, mmHg x hours) ^h	1521.0 (1515.8)	1471.5 (1840.9)	1521.7 (1629.0)	0.55	0.947
Systolic BP (# Days 2+ SD Below Mean, 1st week)	0.9 (1.6)	0.5 (1.2)	0.9 (1.6)	4.39	0.013
Peak Bilirubin (1st 8 Days)	9.3 (2.7)	9.0 (2.7)	9.2 (2.4)	0.51	0.601
Neonatal Infection (positive culture in blood, csf, or urine)	31.5 (122/387)	28.9 (55/190)	24.1 (57/237)	4.01	0.134
Prolonged Ventilation ⁱ	11.6 (45/387)	8.4 (16/109)	8.9 (21/237)	1.99	0.370

^a Groups are mutually exclusive, cases with major cognitive and motor disabilities are removed.

^b LBW/PT survivors assessed with the DISC at age 6, 9, and 16 years (N=387).

^c LBW/PT survivors assessed with the DISC at age 6, 9, or 16 years -- but not all three ages (N=190).

^d LBW/PT survivors to age 6 years who had not been adopted and were thus eligible for assessment at age 6, but who were not assessed with the DISC at this age (includes those assessed by phone, those lost to follow-up, and those refusing assessment at age 6 who were not assessed with the DISC at ages 9 and/or 16 -- N=237).

Supplement Table 1 (continued): Background Characteristics of the Study Sample and two Comparison Samples^a

^e One or more of 5 maternal risk conditions are present at the time of the infant's birth: age < 19 years, less than a high school education, unmarried status, minority status, or receiving public assistance.

^f Birth Head Circumference relative to median expected for gestational age and gender (according to distributions of Yudkin¹).

^g Lowest 10th percent of distribution of gestational age and sex specific birth head circumference ratio distributions of Yudkin¹.

^h Available only for those with at least some time on a ventilator ($n = 199$ for the Study Sample, $n = 129$ for Incomplete DISC, and $n = 123$ for the Other Eligible group).

ⁱ Excessive number of days on ventilator given gestational age.

Supplement Table 2: Autism Spectrum Screen by Latent Class Using Higher Cutoffs for the SCQ and the ASSQ

	Most Likely Latent Class % (n/N)			Total % (n/N)	χ^2 ^a	<i>P</i> ^b Value	Post-Hoc Analysis <i>P</i> Value		
	PIA	SAL	UA				PIA vs SAL	SAL vs UA	PIA vs UA
Autism Spectrum Disorders (screening status)									
Screen positive for ASD ^c - Age 16 Years	15.2% (10/66)	5.3% (6/150)	0.6% (1/171)	4.9% (19/387)	21.74	<0.001	0.029	0.014	<0.001
Social Communication Questionnaire (SCQ) ≥ 14 ^d - Age 16 Years	6.1% (4/66)	3.3% (5/150)	0.0% (0/171)	2.3% (9/387)	8.80	0.013	0.461	0.021	0.006
Autism Spectrum Screening Questionnaire (ASSQ) ≥ 19 ^e - Age 16 Years	7.6% (5/66)	0.7% (1/150)	0.0% (0/171)	1.6% (6/387)	19.159	<0.001	0.011	0.467	0.001
Professional diagnosis of ASD .- (ever by age 16 years)	6.7% (4/60)	1.4% (2/143)	0.6% (1/166)	1.9% (7/369)	9.020	0.011	0.064	0.598	0.018

PIA = Persistent Inattentive; SAL=School Age Limited; UA=Unaffected.

^a Two degrees of freedom.

^b *P* values are exact 2-sided.

^c Above cutpoint on the SCQ or ASSQ or given an ASD diagnosis by a professional.

^d Johnson et al. (2011).

^e Ehlers et al. (1999).

Supplement Table 3: Current (past 6 months at ages 6 and 9 years, past year at age 16) Prevalence of DSM Psychiatric Disorders in Study Sample (n=387)

	Age 6 ^a	Age 9 ^b	Age 16 ^c	
			Threshold	Threshold plus Subthreshold
Any ADHD	13.7%	6.5%	5.4%	18.6%
Inattentive ADHD	ne	3.4%	3.9%	15.2%
Hyperactive ADHD	ne	3.1%	0.0%	0.3%
Combined ADHD	ne	5.9%	1.6%	3.1%
Any disruptive disorder	6.5%	6.2%	8.8%	28.2%
ODD	5.9%	4.9%	8.5%	27.1%
CD	1.0%	1.6%	1.0%	3.1%
Any anxiety disorder w-o OCD	4.4%	ne	9.3%	16.0%
Overanxious/generalized anxiety	1.3%	ne	0.5%	2.6%
Separation anxiety	3.4%	ne	1.0%	2.3%
Avoidant disorder	0.3%	ne	ne	ne
Social phobia	ne	ne	2.6%	5.9%
Simple/specific phobia	0.5%	ne	5.2%	6.5%
PTSD	ne	ne	0.3%	1.0%
Panic disorder	ne	ne	0.3%	1.8%
Agoraphobia	ne	ne	0.0%	0.0%
Selective/elective mutism	0.5%	ne	0.3%	0.5%
Any Mood disorder	ne	ne	1.8%	5.7%
Major depression	0.3%	ne	1.0%	4.7%
Dysthymia	ne	ne	0.5%	2.3%
Mania	ne	ne	0.3%	1.0%
Any tic disorder	1.3%	ne	3.1%	5.2%
OCD	6.5%	ne	0.3%	3.4%
Schizophrenia	ne	ne	0.0%	0.3%
Pica	0.5%	ne	0.0%	0.0%
Any eating disorder	ne	ne	0.0%	1.6%
Any elimination disorder	7.0%	ne	0.3%	1.0%
Nocturnal enuresis	6.2%	ne	0.3%	1.0%
Diurnal enuresis	0.8%	ne	0.0%	0.0%
Encopresis	0.8%	ne	0.0%	0.0%
Any substance abuse/dependence	ne	ne	1.3%	1.8%
Alcohol abuse/dependence	ne	ne	0.5%	0.8%
Marijuana abuse/dependence	ne	ne	0.8%	0.8%
Nicotine abuse/dependence	ne	ne	0.3%	0.5%
Other substance abuse/dependence	ne	ne	0.3%	0.3%
Any disorder	19.6	ne	22.5%	47.3%

^aDSMIII-R (DISC 2.1) ;

^bDSM-IV (DISC 3.0);

^cDSM-IV (DISC 4.0)

Note₁ – “ne” indicates “not evaluated.”

Note₂ – Shaded cells indicate prevalence ≥ 3% for a specific disorder ; at age 16, only the threshold version of the variable is highlighted if ≥ 3%, or If threshold version is < 3% but threshold+subthreshold version is ≥ 3%, this latter version is highlighted

Supplement Table 4. Functional Outcomes at Age 16 Controlling for IQ, Motor Problems, Social Communication Difficulties^a, and Presence of any Class-related DSM-IV Psychiatric Diagnosis

Outcome	Adjusting for...	Adjusted Percentage				
		PIA	SAL	UA	X ²	P
Psychosocial Impairment		%	%	%		
Columbia Impairment Scale (CIS) ≥ 16 ^B	<i>Unadjusted</i>	100	76.6	62.0	18.73	<0.001
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	100	76.9	62.4	17.74	<0.001
	Social Communication Difficulties	100	76.6	62.4	17.68	<0.001
	Presence of a Non-ADHD DSM-IV dx	100	76.5	63.4	15.19	0.001
	All Three Covariates	100	76.6	63.8	13.93	0.001
Children's Global Assessment Scale (CGAS) ≤ 70	<i>Unadjusted</i>	70.3	36.4	8.2	63.52	<0.001
	Full Scale IQ < 70	67.7	34.2	8.3	57.09	<0.001
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	67.6	36.6	8.9	53.70	<0.001
	Social Communication Difficulties	68.3	36.5	8.9	56.42	<0.001
	Presence of a Non-ADHD DSM-IV dx	66.8	36.1	8.8	47.86	<0.001
	All Four Covariates	63.2	35.6	4.6	35.53	<0.001
Adaptive Functioning: Vineland Adaptive Behavior Scales						
Communication Standard Score < 80	<i>Unadjusted</i>	43.7	29.8	13.6	23.50	<0.001
	Full Scale IQ < 70	41.7	29.2	15.0	17.59	<0.001
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	41.6	29.9	14.3	18.71	<0.001
	Social Communication Difficulties	41.2	30.2	14.3	17.51	<0.001
	Presence of a Non-ADHD DSM-IV dx	42.1	29.7	14.3	19.10	<0.001
	All Four Covariates	38.3	29.6	15.8	11.30	0.001

Supplement Table 4 (continued). Functional Outcomes at Age 16 Controlling for IQ, Motor Problems, Social Communication Difficulties^a, and Presence of any Non-ADHD Class-related DSM-IV Psychiatric Diagnosis

Outcome	Adjusting for...	Adjusted Percentage				
		PIA	SAL	UA	X ²	P
Daily Living Standard Score < 80	<i>Unadjusted</i>	41.6	20.7	20.0	12.29	0.001
	Full Scale IQ < 70	37.8	20.5	20.3	10.95	0.004
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	38.4	20.4	20.1	11.50	0.003
	Social Communication Difficulties	38.3	20.5	20.8	8.37	0.015
	Presence of a Non-ADHD DSM-IV dx	39.6	20.7	14.5	13.02	0.001
	All Four Covariates	38.0	20.4	20.3	9.61	0.008
Socialization Standard Score < 80	<i>Unadjusted</i>	25.5	13.2	0.5	29.96	<0.001
	Full Scale IQ < 70	24.9	13.0	1.1	25.46	<0.001
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	24.5	13.4	0.9	24.05	<0.001
	Social Communication Difficulties	24.1	13.0	1.3	22.05	<0.001
	# of DSM-IV dxs	23.8	12.8	1.5	21.20	<0.001
	All Four Covariates	22.0	12.7	2.4	14.75	0.001
Adaptive Behavior Composite Standard Score < 80	<i>Unadjusted</i>	43.1	23.5	10.7	31.55	<0.001
	Full Scale IQ < 70	41.7	22.8	11.9	25.62	<0.001
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	41.1	23.5	11.4	24.74	<0.001
	Social Communication Difficulties	41.3	23.7	11.3	23.70	<0.001
	Presence of a Non-ADHD DSM-IV dx	41.5	23.3	11.5	25.47	<0.001
	All Four Covariates	38.7	23.2	12.7	15.96	<0.001

Supplement Table 4 (continued). Functional Outcomes at Age 16 Controlling for IQ, Motor Problems, Social Communication Difficulties^a, and Presence of any Non-ADHD Class-related DSM-IV Psychiatric Diagnosis

Outcome	Adjusting for...	Adjusted Percentage				
		PIA	SAL	UA	X ²	P
Self-Reported Well-Being						
Beck Score ≥ 16 (depressed)	<i>Unadjusted</i>	12.0	5.3	3.7	5.57	0.062
	Full Scale IQ < 70	12.0	5.7	3.7	5.22	0.024
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	9.8	5.4	3.8	3.96	0.138
	Social Communication Difficulties	10.0	5.3	3.8	4.63	0.099
	Presence of a Non-ADHD DSM-IV dx	8.9	5.1	4.5	2.30	0.317
	All Four Covariates	8.5	5.1	4.6	1.55	0.461
Victim of Bullying Scale (Mean ± Standard Error) (n)	<i>Unadjusted</i>	.68±.10 (56)	.29±.04 (137)	.19±.03 (163)	F(2,353)= 21.43	<0.001
	Full Scale IQ < 70	.66±.065 (56)	.29±.04 (137)	.20±.04 (163)	F(2,352)= 18.54	<0.001
	Riley Motor Problems Inventory (RMPI) Percent Scoring in the top 2% for Age 6	.65±.07 (54)	.29±.04 (136)	.20±.04 (161)	F(2,347)= 16.77	<0.001
	Social Communication Difficulties	.67±.07 (56)	.29±.04 (137)	.20±.04 (163)	F(2,352)= 19.16	0.001
	Presence of a Non-ADHD DSM-IV dx	.66±.07 (56)	.29±.04 (137)	.20±.04 (163)	F(2,352)= 17.93	<0.001
	All Four Covariates	.62±.07 (54)	.29±.04 (136)	.21±.04 (161)	F(2,344)= 13.31	<0.001

^a As indicated by a positive screen for ASD.

^b For this outcome, no adjustment was made for IQ because all of the low IQ subjects had CIS scores >= 16.

Supplement Table 5: Relative Odds of Medication for ADHD in the Persistent Inattentive Class (PIA) versus Other Groups at ages 6, 9, and 16.

	Unadjusted OR (95% CI)	Adjusted for Impairment OR (95% CI)
Age 6	13.1 (2.48, 68.9)	3.89 (0.63, 23.8)
Age 9	42.9 (12.2, 150)	14.7 (3.08, 71.8)
Age 16	17.2 (7.87, 37.5)	9.36 (3.34, 26.2)

The heightened probability of impairment in the PIA class accounts for much of the enhanced likelihood of ADHD medication in this group. However, at ages 9 and 16 in particular, manifold elevations in the odds of being on ADHD medication remain after adjustment for inattention-related and hyperactivity/impulsivity-related impairment. This suggests that characteristics of the PIA other than parent-reported impairment are apparent to clinicians and lead them to prescribe medications.

Supplement Table 6: DSM-Symptom-Based ADHD Diagnoses at Ages 6, 9 and 16 Years by Most Likely Latent Class

	Most Likely Latent Class		
	Persistent Inattentive (PIA)	School Age Limited (SAL)	Unaffected (UA)
Age 6 DSM III-R ADHD Diagnosis	% (n/N)	% (n/N)	% (n/N)
Any ADHD	60.6% (40/66)	16.0% (24/150)	0.6% (1/171)
Age 9 DSM IV ADHD Diagnoses	% (n/N)	% (n/N)	% (n/N)
Combined	43.9% (29/66)	0.7% (1/150)	0.0% (0/171)
Predominantly Inattentive	30.3% (20/66)	17.3% (26/150)	0.6% (1/171)
Predominantly Hyperactive-Impulsive	18.2% (12/66)	8.0% (12/150)	0.0% (0/171)
Subthreshold (NOS) ^c	6.1% (4/66)	33.3% (50/150)	1.8% (3/171)
No ADHD diagnosis	1.5 % (1/66)	40.7% (61/150)	97.7% (167/171)
Age 16 DSM IV ADHD Diagnoses	% (n/N)	% (n/N)	% (n/N)
Combined	10.6% (7/66)	0.0% (0/150)	0.0% (0/171)
Predominantly Inattentive	45.5% (30/66)	4.7% (7/150)	0.0% (0/171)
Predominantly Hyperactive-Impulsive	3.0% (2/66)	1.3% (2/150)	0.0% (0/171)
Subthreshold (NOS) ^a	15.2% (10/66)	6.0% (9/150)	0.0% (0/171)
No DSM-IV ADHD	25.8% (17/66)	88.0% (132/150)	100% (171/171)

^aSubthreshold (Not otherwise specified): Individuals with between 6 and 10 ADHD symptoms but with less than six in each subtype

**Supplement Table 7: Age 16 Functional Outcomes: Distribution by Age 9 DSM-IV ADHD Subtypes
(Combined versus Predominantly Inattentive)**

		Symptom-Defined Age 9 ADHD Subtype			$X^2_{(2)}/$ $F(2,473)$	<i>P</i>
		Combined	Predominantly Inattentive	Total		
Education						
Any special education services?	% (n)	82.6 (19/23)	54.2 (26/48)	63.4 (45/71)	5.42	.034
Below Expected Grade?	% (n)	26.3 (5/19)	21.7 (10/46)	23.1 (15/65)	.159	.751
Psychosocial Impairment						
Columbia Impairment Scale (CIS) ≥ 16	% (n)	100.0 (23/23)	88.9 (40/45)	92.6 (63/68)	2.758	.159
Columbia Global Assessment Scale (CGAS) ≤ 70	% (n)	69.6 (16/23)	55.3 (26/47)	60.0 (42/70)	1.30	.306
Adaptive Functioning						
Vineland Adaptive Behavior Scales Standard score < 80						
Communication	% (n)	52.4 (11/21)	43.8 (21/48)	46.4 (32/69)	.44	.603
Daily Living	% (n)	47.6 (10/21)	41.7 (20/58)	43.5 (30/69)	.211	.793
Socialization	% (n)	33.3 (7/21)	22.9 (11/48)	26.1 (18/69)	3.71	.068
Adaptive Behavior Composite	% (n)	52.4 (11/21)	43.8 (21/48)	46.4 (32/69)	.44	.603
Self-Reported Well Being						
Beck Score ≥ 16 (Depressed)	% (n)	16.7 (3/18)	6.5 (3/46)	9.4 (6/64)	1.57	.338
Suicidality (Beck item 9)	% (n)	16.7 (3/18)	13.0 (6/46)	14.1 (9/64)	.14	1.00
Ribgy-Slee Victim of Bullying Scale	M \pm S (n)	.62 \pm .67 (19)	.48 \pm .58 (43)	.52 \pm .61 (62)	.705	.405

Supplement Table 8: Other Clinical Characteristics: Distribution by Age 9 DSM-IV ADHD Subtypes (Combined versus Predominantly Inattentive)

			Symptom-Defined Age 9 ADHD Subtype			Total	$\chi^2_{(2)}$	P ^a
			Combined	Predominantly Inattentive				
Neurodevelopmental Features								
Riley Motor Problems Inventory Total Score in top 2% (at age 6)								
	at Age 6	% (n/N)	56.5 (13/23)	41.7 (20/48)	46.5 (33/71)	1.379	0.311	
	at Age 9	% (n/N)	69.6 (16/23)	56.3 (27/48)	60.6 (43/71)	1.154	0.313	
	at Age 16	% (n/N)	18.2 (4/22)	14.9 (7/47)	15.9 (11/69)	0.121	1.000	
IQ > 2 SD below Mean at 3 ages								
Stanford-Binet	at Age 6	% (n/N)	0 (0/23)	0.0 (0/48)	0.0 (0/71)			
WISC-III	at Age 9	% (n/N)	4.5 (1/22)	4.3 (2/47)	4.3 (3/69)	0.003	1.000	
WASI	at Age 16	% (n/N)	8.7 (2/23)	6.3 (3/48)	7.0 (5/71)	0.142	1.000	
Screen + for ASD ^b at age 16		% (n/N)	34.8 (8/23)	27.1 (13/48)	29.6 (21/71)	0.443	0.582	
SCQ ≥ 9	at Age 16	% (n/N)	31.6 (6/19)	22.2 (10/45)	25.0 (16/64)	0.624	0.530	
ASSQ ≥ 12	at Age 16	% (n/N)	23.8 (5/21)	6.7 (3/45)	12.1 (8/66)	3.950	0.098	
Diagnosis of ASD	(by Age 16)	% (n/N)	15.8 (3/19)	2.1 (1/47)	6.1 (4/66)	4.436	0.069	
DSM Psychiatric Disorders Assessed with the Diagnostic Interview Schedule for Children- Parent Version								
Oppositional Defiant	at Age 6	% (n/N)	26.1 (6/23)	10.4 (5/48)	15.5 (11/71)	2.916	0.157	
	at Age 9	% (n/N)	17.4 (4/23)	12.5 (6/48)	14.1 (10/71)	0.307	0.718	
	at Age 16	% (n/N)	39.1 (9/23)	14.6 (7/48)	22.5 (16/71)	5.367	0.033	
Conduct	at Age 6	% (n/N)	4.5 (1/22)	2.1 (1/48)	2.9 (2/70)	0.329	1.000	
	at Age 9	% (n/N)	13.0 (3/23)	0.0 (0/48)	4.2 (3/71)	6.537	0.031	
	at Age 16	% (n/N)	8.7 (2/23)	2.1 (1/48)	4.2 (3/71)	1.680	0.243	
Separation Anxiety	at Age 6	% (n/N)	4.3 (1/23)	4.2 (2/48)	4.2 (3/71)	0.001	1.000	
	at Age 16	% (n/N)	13.0 (3/23)	4.2 (2/48)	7.0 (5/71)	1.872	0.320	
Social Phobia	at Age 6	% (n/N)	ne	ne	ne	ne	ne	
	at Age 16	% (n/N)	21.7 (5/23)	8.3 (4/48)	12.7 (9/71)	2.525	0.138	

Supplement Table 8 (continued): Other Clinical Characteristics: Distribution by Age 9 DSM-IV ADHD Subtypes (Combined versus Predominantly Inattentive)

			Symptom-Defined Age 9 ADHD Subtype			Total	$\chi^2_{(2)}$	P ^a
			Combined	Predominantly Inattentive				
Simple Phobia	at Age 6	% (n/N)	0.0 (0/23)	0.0 (0/48)	0.0 (0/71)	_____	_____	
	at Age 16	% (n/N)	4.3 (1/23)	4.2 (2/48)	4.2 (3/71)	0.001	1.000	
Major Depression	at Age 6	% (n/N)	0.0 (0/23)	0.0 (0/48)	0.0 (0/71)	_____	_____	
	at Age 16	% (n/N)	17.4 (4/23)	8.3 (4/48)	11.3 (8/71)	1.276	0.423	
Any Tic	at Age 6	% (n/N)	8.7 (2/23)	4.2 (2/48)	5.6 (4/71)	0.600	0.591	
	at Age 16	% (n/N)	8.7 (2/23)	2.1 (1/48)	4.2 (3/71)	1.680	0.243	
Obsessive-Compulsive	at Age 6	% (n/N)	8.7 (2/23)	12.5 (6/48)	11.3 (8/71)	0.225	0.715	
	at Age 16	% (n/N)	17.4 (4/23)	4.2 (2/48)	8.5 (6/71)	3.515	0.082	
Nocturnal enuresis	at Age 6	% (n/N)	26.1 (6/23)	10.4 (5/48)	15.5 (11/71)	2.916	0.157	
	at Age 16	% (n/N)	0.0 (0/23)	0.0 (0/48)	0.0 (0/71)	_____	_____	
Taking Medication for ADHD								
	at Age 6	% (n/N)	8.7 (2/23)	6.3 (3/48)	7.0 (5/71)	.142	1.000	
	at Age 9	% (n/N)	39.1 (9/23)	10.4 (5/48)	19.7 (14/71)	8.099	0.009	
	at Age 16	% (n/N)	60.9 (14/23)	18.8 (9/48)	32.4 (23/71)	12.596	0.001	

^aExact 2-sided p-value.

^bDefined as satisfying any one of 3 conditions: (1) a score ≥ 9 on the SCQ; (2) a score of ≥ 12 on the ASSQ, or (3) a history of professional diagnosis of ASD.

Note: ne = not evaluated

Reference List

1. Yudkin PL, Aboualfa M, Eyre JA, Redman CW, Wilkinson AR. New birthweight and head circumference centiles for gestational ages 24 to 42 weeks. *Early Hum Dev.* Jan 1987;15(1):45-52.