

Table S1. VABS Composite and subscale scores by ID groups

	Total sample	Without ID	With ID	<i>p</i>	<i>d</i>
Composite	62.54 (11.58); 2149	65.66 (12.13); 1142	59.00 (9.81); 1007	< .001	0.60
Communication	66.15 (15.17); 2200	72.97 (14.88); 1170	58.41 (11.28); 1030	< .001	1.09
Daily Living Skills	65.47 (14.87); 2197	68.18 (15.82); 1168	62.40 (13.05); 1029	< .001	0.40
Socialization	62.00 (10.91); 2191	63.30 (11.90); 1164	60.52 (9.45); 1027	< .001	0.26
Motor Skills	73.31 (13.68); 1654	76.14 (13.85); 759	70.91 (13.08); 895	< .001	0.39

Notes: values represent mean (SD); *n*. Missing data excluded listwise.

Exploratory analyses were also conducted to explore adaptive functioning scores in cases initially classed as ‘Vulnerable for ID’ but later grouped in the ‘With ID’ group for analysis. The “Vulnerable for ID” exhibited significantly higher composite scores than the “With ID” group (mean = 61.39, SD = 8.46, *n* = 421 vs mean = 57.20, SD = 10.54, *n* = 587). These scores were significantly lower than the “Without ID” group (mean = 65.57, SD = 12.28, *n* = 1144); both *p*-values < .001. This suggested that the “Vulnerable for ID” group represents an intermediate group in terms of adaptive functioning, but with significant adaptive functioning difficulties consistent with being vulnerable for an ID diagnosis.

Table S2. VABS Composite and subscale scores by ID and Sex

	Without ID		With ID		ID	Sex	ID * Sex
	Male	Female	Male	Female	<i>p</i>	<i>p</i>	<i>p</i>
Composite	65.38 (12.24); 943	66.85 (11.48); 193	59.23 (9.74); 815	58.04 (10.06); 191	< .001	.83	.03
Communication	72.76 (14.94); 966	73.84 (14.61); 201	58.61 (11.50); 834	57.54 (10.30); 195	< .001	.99	.15
Daily Living Skills	67.64 (16.17); 964	70.54 (13.79); 201	62.61 (13.24); 833	61.49 (12.27); 195	< .001	.27	.01
Socialization	63.10 (11.89); 961	64.30 (11.96); 200	60.66 (9.33); 831	59.93 (10.01); 195	< .001	.70	.11
Motor Skills	75.80 (14.06); 619	77.55 (12.81); 139	71.12 (13.01); 724	70.06 (13.38); 170	< .001	.68	.10

Notes: values represent mean (SD); *n*. Significance values provided for the main effects of ID group and Sex, and the interaction between ID and Sex. Missing data excluded listwise.

Table S3. Bivariate correlations between IQ and DQ and adaptive behavior scores

IQ	All cases		Without ID		With ID	
	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>
Composite	921	.25 ***	633	.16 ***	288	.08
Communication	939	.45 ***	642	.30 ***	297	.13 *
Daily Living Skills	935	.19 ***	640	.12 **	295	.08
Socialization	934	.10 **	639	.05	298	.05
Motor Skills	560	.23 ***	357	.16 **	203	.00
DQ	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>
Composite	264	.46 ***	112	.32 **	152	.26 **
Communication	267	.56 ***	112	.45 ***	155	.31 ***
Daily Living Skills	266	.37 ***	111	.24 *	155	.24 **
Socialization	266	.27 ***	111	.13	155	.09
Motor Skills	254	.23 ***	104	.11	150	.22 **

Notes: * $p < .05$, ** $p < .01$, *** $p < .001$; 2-tailed

Table S4. Bivariate correlations between IQ and DQ and adaptive behavior scores by sex.

	Without ID				With ID			
	Male		Female		Male		Female	
IQ	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>
Composite	521	.15 **	109	.26 **	237	.08	51	.11
Communication	529	.28 ***	110	.44 ***	242	.13 *	55	.14
Daily Living Skills	527	.10 *	110	.28 **	241	.09	54	.03
Socialization	526	.05	110	.07	240	.07	55	-.08
Motor Skills	289	.17 **	67	.13	162	.05	41	-.16
DQ	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>	<i>n</i>	<i>r</i>
Composite	94	.36 ***	18	.14	116	.27 **	36	.20
Communication	93	.48 ***	19	.29	119	.29 **	36	.35 *
Daily Living Skills	92	.26 *	19	.07	119	.24 **	36	.22
Socialization	93	.16	18	.02	119	.09	36	.08
Motor Skills	87	.14	17	.01	117	.22 *	33	.18

Notes: * $p < .05$, ** $p < .01$, *** $p < .001$; 2-tailed

Table S5A. Hierarchical regression analyses predicting VABS composite scores.

	Composite (<i>n</i> = 1164)							
	<i>B</i>	<i>SE B</i>	β	<i>t</i>	<i>p</i>	<i>R</i> ²	ΔR^2	<i>p</i>
<i>Step 1</i>								
(Constant)	62.98	.40		158.80	.00			
Sex	.42	.94	.01	.45	.65	.00		
<i>Step 2</i>								
(Constant)	62.93	.39		163.53	.00			
Sex	.69	.91	.02	.75	.45			
IQ	.15	.02	.24	8.56	.00	.06	.06	.00
<i>Step 3</i>								
(Constant)	63.32	.56		113.79	.00			
Sex	.69	.91	.02	.76	.45			
IQ	.13	.03	.21	4.87	.00			
ID Group	-1.07	1.11	-.04	-.97	.33	.06	.00	.33
<i>Step 4</i>								
(Constant)	63.90	.52		122.94	.00			
Sex	.48	.85	.02	.56	.57			
IQ	.15	.03	.23	5.75	.00			
ID Group	-2.56	1.04	-.10	-2.47	.01			
Age	-1.29	.10	-.36	-13.41	.00	.19	.13	.00
<i>Step 5</i>								
(Constant)	63.88	.52		122.89	.00			
Sex	.44	.85	.01	.52	.61			
IQ	.14	.03	.23	5.69	.00			
ID Group	-2.75	1.05	-.11	-2.63	.01			
Age	-1.21	.11	-.34	-10.66	.00			
Age * ID Group	-.29	.21	-.04	-1.35	.18	.19	.00	.18

Table S5B. Hierarchical regression analysis predicting VABS Communication scores.

Communication (n = 1185)								
	B	SE B	β	t	p	R ²	ΔR^2	p
<i>Step 1</i>								
(Constant)	68.14	.49		139.34	.00			
Sex	-.78	1.15	-.02	-.68	.50	.00		
<i>Step 2</i>								
(Constant)	68.05	.44		156.30	.00			
Sex	-.28	1.02	-.01	-.27	.79			
IQ	.35	.02	.46	17.63	.00	.21	.21	.00
<i>Step 3</i>								
(Constant)	69.11	.63		109.71	.00			
Sex	-.22	1.02	-.01	-.22	.83			
IQ	.30	.03	.39	9.76	.00			
ID Group	-2.90	1.25	-.09	-2.32	.02	.21	.00	.02
<i>Step 4</i>								
(Constant)	69.44	.62		111.86	.00			
Sex	-.39	1.00	-.01	-.39	.69			
IQ	.31	.03	.40	10.22	.00			
ID Group	-3.72	1.24	-.12	-3.01	.00			
Age	-.76	.11	-.17	-6.63	.00	.24	.03	.00
<i>Step 5</i>								
(Constant)	69.43	.62		111.76	.00			
Sex	-.41	1.00	-.01	-.41	.68			
IQ	.31	.03	.40	10.18	.00			
ID Group	-3.80	1.25	-.12	-3.05	.00			
Age	-.72	.14	-.16	-5.30	.00			
Age * ID Group	-.13	.25	-.02	-.52	.60	.24	.00	.60

Table S5C. Hierarchical regression analysis predicting VABS Daily Living Skills scores.

Daily Living Skills (<i>n</i> = 1180)								
	<i>B</i>	<i>SE B</i>	β	<i>t</i>	<i>p</i>	<i>R</i> ²	ΔR^2	<i>p</i>
<i>Step 1</i>								
(Constant)	65.45	.51		129.67	.00			
Sex	1.91	1.19	.05	1.61	.11	.00		
<i>Step 2</i>								
(Constant)	65.42	.50		131.32	.00			
Sex	2.09	1.17	.05	1.79	.08			
IQ	.13	.02	.16	5.70	.00	.03	.03	.00
<i>Step 3</i>								
(Constant)	65.48	.72		9.53	.00			
Sex	2.09	1.17	.05	1.79	.07			
IQ	.13	.04	.16	3.62	.00			
ID Group	-.17	1.44	-.01	-.12	.90	.03	.00	.90
<i>Step 4</i>								
(Constant)	66.18	.68		97.02	.00			
Sex	1.77	1.10	.04	1.61	.11			
IQ	.14	.03	.18	4.38	.00			
ID Group	-1.93	1.36	-.06	-1.42	.16			
Age	-1.57	.13	-.35	-12.50	.00	.14	.11	.00
<i>Step 5</i>								
(Constant)	66.14	.68		97.07	.00			
Sex	1.71	1.10	.04	1.55	.12			
IQ	.14	.03	.18	4.28	.00			
ID Group	-2.35	1.37	-.07	-1.72	.09			
Age	-1.39	.15	-.31	-9.39	.00			
Age * ID Group	-.62	.28	-.07	-2.23	.03	.15	.00	.03

Table S5D. Hierarchical regression analysis predicting VABS Socialization scores.

Socialization								
(n = 1179)								
	<i>B</i>	<i>SE B</i>	β	<i>t</i>	<i>p</i>	<i>R</i> ²	ΔR^2	<i>p</i>
<i>Step 1</i>								
(Constant)	62.27	.38		165.05	.00			
Sex	.89	.89	.03	1.01	.31	.00		
<i>Step 2</i>								
(Constant)	62.26	.38		165.57	.00			
Sex	.97	.88	.03	1.09	.27			
IQ	.05	.02	.09	3.01	.00	.01	.01	.00
<i>Step 3</i>								
(Constant)	62.65	.55		114.99	.00			
Sex	.99	.88	.03	1.12	.26			
IQ	.03	.03	.05	1.20	.23			
ID Group	-1.08	1.08	-.05	-1.00	.32	.01	.00	.32
<i>Step 4</i>								
(Constant)	63.19	.51		123.05	.00			
Sex	.75	.83	.03	.90	.37			
IQ	.05	.03	.08	1.81	.07			
ID Group	-2.43	1.02	-.10	-2.38	.02			
Age	-1.19	.10	-.35	-12.57	.00	.13	.12	.00
<i>Step 5</i>								
(Constant)	63.21	.51		123.02	.00			
Sex	.77	.83	.03	.93	.35			
IQ	.05	.03	.08	1.85	.06			
ID Group	-2.29	1.03	-.09	-2.22	.03			
Age	-1.25	.11	-.37	-11.15	.00			
Age * ID Group	.21	.21	.03	.98	.33	.13	.00	.33

Table S5E. Hierarchical regression analysis predicting VABS Motor Skills scores.

Motor Skills								
<i>(n = 803)</i>								
	<i>B</i>	<i>SE B</i>	β	<i>t</i>	<i>p</i>	R^2	ΔR^2	<i>p</i>
<i>Step 1</i>								
(Constant)	74.57	.55		136.55	.00			
Sex	.60	1.25	.02	.48	.63	.00		
<i>Step 2</i>								
(Constant)	74.55	.54		139.37	.00			
Sex	.68	1.22	.02	.56	.58			
IQ	.15	.03	.20	5.89	.00	.04	.04	.00
<i>Step 3</i>								
(Constant)	74.65	.83		89.88	.00			
Sex	.69	1.22	.02	.56	.57			
IQ	.14	.04	.20	3.70	.00			
ID Group	-.23	1.50	-.01	-.15	.88	.04	.00	.88
<i>Step 4</i>								
(Constant)	74.92	.79		95.45	.00			
Sex	.22	1.16	.01	.19	.85			
IQ	.18	.04	.25	4.89	.00			
ID Group	-.67	1.42	-.02	-.47	.64			
Age	-3.98	.40	-.33	-9.88	.00	.15	.10	.00
<i>Step 5</i>								
(Constant)	74.82	.78		95.68	.00			
Sex	.25	1.15	.01	.22	.83			
IQ	.17	.04	.24	4.76	.00			
ID Group	-.95	1.42	-.03	-.67	.50			
Age	-2.94	.53	-.24	-5.51	.00			
Age * ID Group	-2.39	.81	-.13	-2.97	.00	.16	.01	.00

Table S6. Mean adaptive behaviour (VABS) scores by age at diagnosis and ID groups

VABS Scores	Age at Diagnosis			VABS - IQ Discrepancy Scores	Age at Diagnosis		
	< 5 years	6-12 years	> 13 years		< 5 years	6-12 years	> 13 years
Composite				Composite			
Without ID	67.37 (9.47); 686	64.43 (14.66); 378	56.51 (14.50); 78	Without ID	-21.41 (15.80); 414	-29.87 (19.22); 264	-33.89 (18.81); 65
With ID	60.26 (8.33); 850	54.54 (12.06); 127	42.71 (14.98); 34	With ID	2.58 (11.80); 331	-3.91 (13.96); 87	-12.42 (19.50); 24
Communication				Communication			
Without ID	72.92 (12.91); 693	74.91 (17.25); 396	63.88 (14.96); 81	Without ID	-16.39 (16.15); 415	-19.05 (19.83); 273	-26.11 (16.92); 64
With ID	59.02 (10.57); 868	57.06 (12.78); 130	47.97 (15.72); 36	With ID	2.18 (12.57); 337	-1.13 (14.26); 91	-8.27 (18.11); 26
Daily Living Skills				Daily Living Skills			
Without ID	70.43 (11.78); 691	65.82 (19.91); 396	60.54 (19.21); 81	Without ID	-18.30 (17.54); 413	-29.38 (23.03); 272	-30.70 (21.83); 64
With ID	64.26 (10.85); 867	55.02 (17.43); 131	41.80 (17.88); 35	With ID	6.84 (13.20); 336	-3.00 (19.42); 91	-14.36 (21.43); 25
Socialization				Socialization			
Without ID	64.62 (9.59); 689	63.33 (13.12); 394	51.93 (16.61); 81	Without ID	-23.64 (17.01); 413	-30.94 (19.55); 271	-37.73 (21.03); 64
With ID	61.58 (8.01); 866	56.72 (11.65); 130	47.63 (17.51); 35	With ID	3.34 (12.44); 336	-1.70 (14.35); 91	-4.92 (21.63); 25

Notes: Values are Mean (SD); *n*

Figure S1. Flowchart of study inclusion criteria.

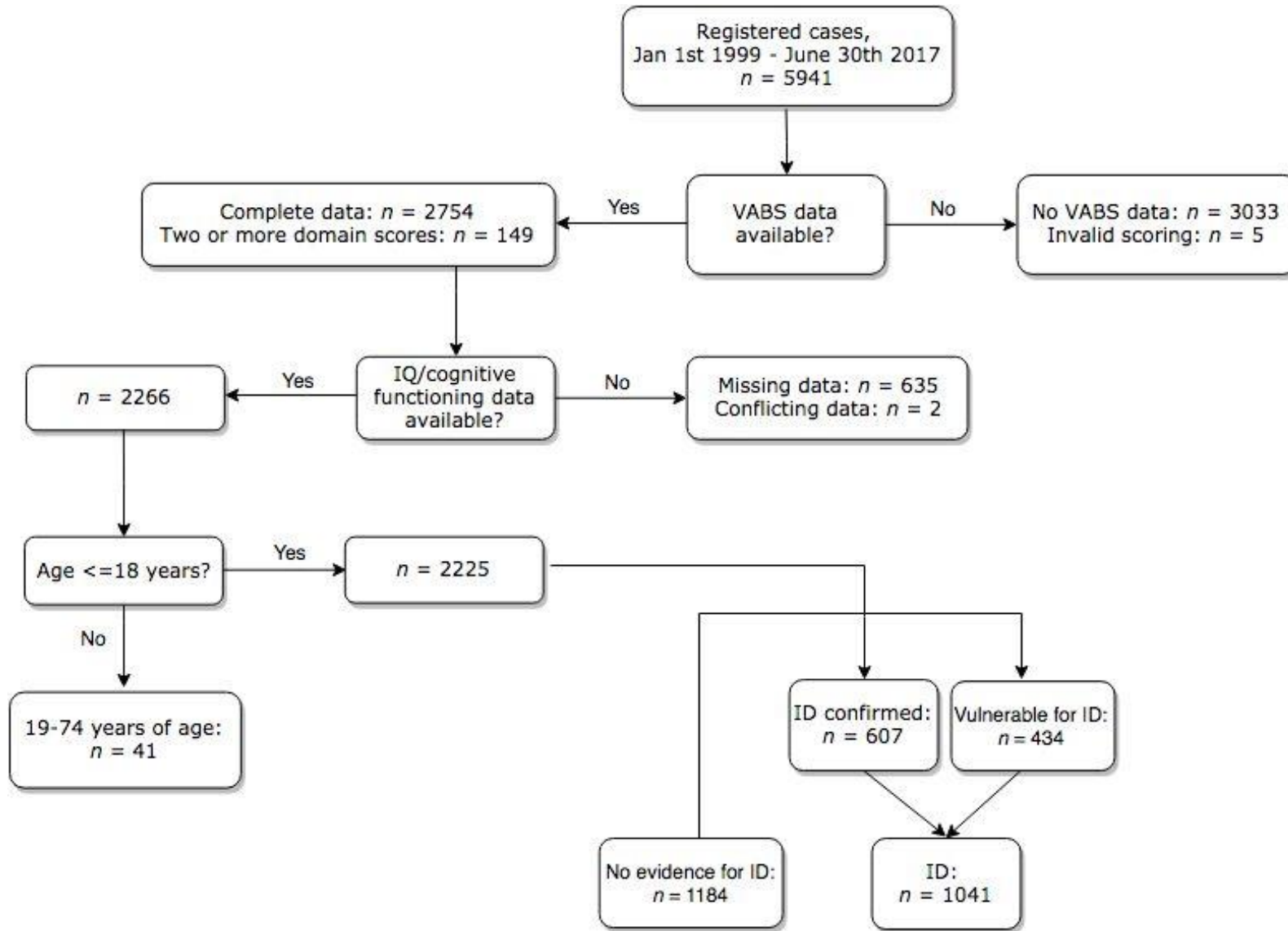
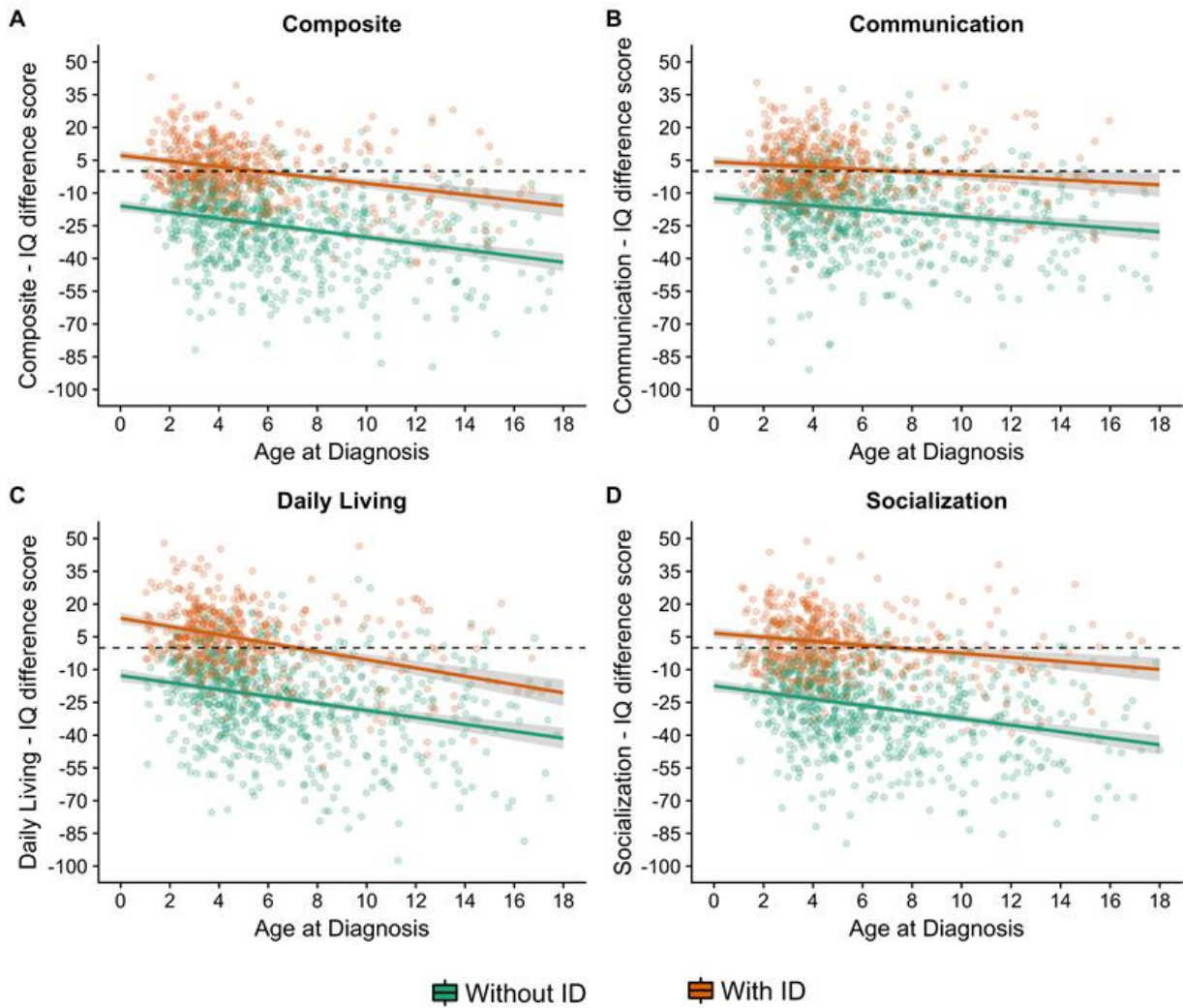


Figure S2. Scatter plots of the relationship between VABS – IQ discrepancy scores (y-axis) with age of diagnosis (x-axis).



Notes: Lines represent linear model lines of best fit with 95% confidence interval. A score below 0 indicates VABS scores lower than IQ.