

**Table S1.** Characteristics of the study population

	Total		Infertility treatment										p
			Natural conception		OI		AIH		IVF		ICSI		
	n=9,655	%	n=8,895	%	n=147	%	n=126	%	n=342	%	n=145	%	
<b>Mother's age, mean (SD), y</b>	32.7	4.7	32.4	4.6	33.1	3.7	35.6	3.7	37.1	3.7	37.3	3.9	<0.0001
<b>Pre-pregnancy BMI (kg/m<sup>2</sup>)</b>													
< 18.5	1,365	14.1	1,279	14.4	16	10.9	20	15.9	29	8.5	21	14.5	0.0283
18.5 to < 25.0	7,204	74.6	6,636	74.6	104	70.8	92	73.0	261	76.3	111	76.6	
≥ 25.0	1,083	11.2	977	11.0	27	18.4	14	11.1	52	15.2	13	9.0	
<b>Educational level</b>													
High school graduate or less	2,711	28.1	2,565	28.8	28	19.1	21	16.7	74	21.6	23	15.9	<0.0001
Junior college or vocational college graduate	3,513	36.4	3,215	36.1	51	34.7	49	38.9	135	39.5	63	43.5	
University graduate or above	2,722	28.2	2,457	27.6	56	38.1	46	36.5	111	32.5	52	35.9	
<b>Household income (JPY/year)</b>													
< 4,000,000	3,117	32.3	2,974	33.4	42	28.6	21	16.7	64	18.7	16	11.0	<0.0001
4,000,000 to < 6,000,000	3,063	31.7	2,810	31.6	37	25.2	49	38.9	120	35.1	47	32.4	
≥ 6,000,000	2,992	31.0	2,658	29.9	62	42.2	49	38.9	145	42.4	78	53.8	
<b>Cigarette smoking</b>													
Never	6,194	64.6	5,675	64.3	100	68.0	95	75.4	221	64.8	103	71.0	<0.0001
Stopped before pregnancy	2,291	23.9	2,075	23.5	31	21.1	29	23.0	115	33.7	41	28.3	
Stopped after pregnancy	950	9.9	928	10.5	15	10.2	2	1.6	5	1.5	0	0.0	
Smoking at early pregnancy	152	1.6	150	1.7	1	0.7	0	0.0	0	0.0	1	0.7	
<b>Alcohol drinking</b>													
Drinking at early pregnancy	1,917	20.0	1,766	20.0	25	17.0	32	25.6	75	22.0	19	13.1	0.0741
Former	3,273	34.1	3,023	34.2	55	37.4	38	30.4	112	32.8	45	31.0	
Never	3,871	40.3	3,568	40.4	54	36.7	51	40.8	128	37.5	70	48.3	
Cannot drink because of constitution	536	5.6	482	5.5	13	8.8	4	3.2	26	7.6	11	7.6	
<b>Parity</b>													
Nullipara	4,564	47.3	4,024	45.2	100	68.0	102	81.0	242	70.8	96	66.2	<0.0001
Multipara	5,091	52.7	4,871	54.8	47	32.0	24	19.1	100	29.2	49	33.8	
<b>Child sex</b>													
Male	4,958	51.4	4,581	51.5	84	57.1	53	42.1	158	46.2	82	56.6	0.0205
Female	4,697	48.7	4,314	48.5	63	42.9	73	57.9	184	53.8	63	43.5	
<b>Gestational week</b>													
≥37	9,017	93.4	8,338	93.7	130	88.4	115	91.3	302	88.3	132	91.0	<0.0001
34 to < 37	482	5.0	417	4.7	17	11.6	9	7.1	28	8.2	11	7.6	
29 to < 34	113	1.2	98	1.1	0	0.0	2	1.6	11	3.2	2	1.4	
< 29	33	0.3	32	0.4	0	0.0	0	0.0	1	0.3	0	0.0	
<b>Birth weight (g)</b>													
≥2,500	8,689	90.0	8,037	90.4	126	85.7	103	81.8	294	86.0	129	89.0	0.0039
< 2,500	952	9.9	844	9.5	21	14.3	23	18.3	48	14.0	16	11.0	
<b>Birth defect</b>													
No	9,477	98.3	8,740	98.4	145	98.6	124	98.4	330	96.5	138	95.2	0.005
Yes	169	1.8	146	1.6	2	1.4	2	1.6	12	3.5	7	4.8	
<b>Multiple birth</b>													
No	9,440	97.8	8,746	98.3	128	87.1	116	92.1	311	90.9	139	95.9	<0.0001
Yes	215	2.2	149	1.7	19	12.9	10	7.9	31	9.1	6	4.1	
<b>ASQ-3 (2Y)</b>													
> Mean -2SD	8,218	85.1	7,626	85.7	119	81.0	96	76.2	265	77.5	112	77.2	<0.0001
≤ Mean-2SD	1,437	14.9	1,269	14.3	28	19.1	30	23.8	77	22.5	33	22.8	
<b>ASQ-3 (3.5Y)</b>													
> Mean -2SD	8,398	87.0	7,746	87.1	127	86.4	106	84.1	295	86.3	124	85.5	0.8329
≤ Mean-2SD	1,257	13.0	1,149	12.9	20	13.6	20	15.9	47	13.7	21	14.5	
<b>Father's age, mean (SD), y</b>	n=4,183		n=3,784		n=74		n=68		n=172		n=85		
	34.5	5.7	34.2	5.6	34.3	4.7	35.9	4.7	38.5	5.4	39.6	4.9	<0.0001

Standard deviation: SD, Body mass index: BMI, Ovulation induction: OI, Artificial Insemination with husband's semen: AIH, In vitro fertilization: IVF, intracytoplasmic sperm injection: ICSI,

Ages &amp; Stages Questionnaires, Third Edition: ASQ-3.

**Table S2.** Odds ratios (95% CIs) from logistic regression models for infertility treatment and children's neurodevelopment at the age of 2 and 3.5 years (n=9,655)

	2 years										3.5 years						
	N	n	%	Crude			Adjusted			n	%	Crude			Adjusted		
				OR	95% CI		OR	95% CI				OR	95% CI		OR	95% CI	
				Lower	Upper		Lower	Upper				Lower	Upper		Lower	Upper	
<b>Total score</b>																	
Natural conception	8,895	1,269	14.27	ref			ref			1,149	12.92	ref				ref	
OI	147	28	19.05	1.41	0.93	2.14	1.22	0.79	1.87	20	13.61	1.06	0.66	1.71	1.01	0.62	1.64
AIH	126	30	23.81	1.88	1.24	2.84	1.53	0.99	2.34	20	15.87	1.27	0.79	2.06	1.29	0.78	2.13
IVF	342	77	22.51	1.75	1.35	2.27	1.34	1.02	1.76	47	13.74	1.07	0.79	1.47	1.02	0.73	1.42
ICSI	145	33	22.76	1.77	1.20	2.62	1.41	0.94	2.11	21	14.48	1.14	0.72	1.82	1.07	0.66	1.74
<b>Communication</b>																	
Natural conception	8,895	445	5	ref			ref			482	5.42	ref				ref	
OI	147	16	10.88	2.32	1.37	3.93	2.12	1.22	3.69	9	6.12	1.14	0.58	2.25	1.05	0.52	2.12
AIH	126	11	8.73	1.82	0.97	3.40	1.71	0.88	3.30	8	6.35	1.18	0.58	2.44	1.23	0.59	2.59
IVF	342	19	5.56	1.12	0.70	1.79	0.94	0.57	1.54	20	5.85	1.08	0.68	1.72	1.02	0.63	1.64
ICSI	145	8	5.52	1.11	0.54	2.28	0.98	0.47	2.05	9	6.21	1.16	0.59	2.28	1.10	0.55	2.20
<b>Gross motor</b>																	
Natural conception	8,895	483	5.43	ref			ref			367	4.13	ref				ref	
OI	147	7	4.76	0.87	0.41	1.87	0.76	0.35	1.64	8	5.44	1.34	0.65	2.75	1.19	0.57	2.48
AIH	126	13	10.32	2.00	1.12	3.58	1.59	0.88	2.89	8	6.35	1.58	0.76	3.25	1.32	0.63	2.77
IVF	342	32	9.36	1.80	1.24	2.62	1.38	0.93	2.05	14	4.09	0.99	0.58	1.71	0.80	0.45	1.40
ICSI	145	17	11.72	2.31	1.38	3.87	1.81	1.07	3.07	11	7.59	1.91	1.02	3.56	1.64	0.87	3.12
<b>Fine motor</b>																	
Natural conception	8,895	389	4.37	ref			ref			513	5.77	ref				ref	
OI	147	7	4.76	1.09	0.51	2.35	1.02	0.47	2.22	10	6.8	1.19	0.62	2.28	1.12	0.58	2.17
AIH	126	10	7.94	1.89	0.98	3.63	1.55	0.80	3.03	9	7.14	1.26	0.63	2.49	1.29	0.64	2.62
IVF	342	27	7.89	1.87	1.25	2.81	1.45	0.95	2.22	18	5.26	0.91	0.56	1.47	0.86	0.52	1.43
ICSI	145	7	4.83	1.11	0.52	2.39	0.87	0.40	1.89	13	8.97	1.61	0.90	2.86	1.49	0.82	2.70
<b>Problem solving</b>																	
Natural conception	8,895	354	3.98	ref			ref			505	5.68	ref				ref	
OI	147	6	4.08	1.03	0.45	2.34	0.80	0.34	1.84	9	6.12	1.08	0.55	2.14	1.12	0.56	2.23
AIH	126	7	5.56	1.42	0.66	3.06	1.00	0.46	2.20	9	7.14	1.28	0.65	2.53	1.31	0.65	2.64
IVF	342	22	6.43	1.66	1.06	2.59	1.13	0.70	1.80	20	5.85	1.03	0.65	1.64	0.98	0.60	1.57
ICSI	145	10	6.9	1.79	0.93	3.43	1.31	0.67	2.55	7	4.83	0.84	0.39	1.81	0.76	0.35	1.66
<b>Personal-social</b>																	
Natural conception	8,895	449	5.05	ref			ref			400	4.5	ref				ref	
OI	147	10	6.8	1.37	0.72	2.63	1.17	0.60	2.27	8	5.44	1.22	0.60	2.51	1.13	0.54	2.35
AIH	126	14	11.11	2.35	1.34	4.13	1.77	0.99	3.19	8	6.35	1.44	0.70	2.97	1.28	0.60	2.70
IVF	342	26	7.6	1.55	1.03	2.33	1.09	0.71	1.68	20	5.85	1.32	0.83	2.10	1.09	0.67	1.78
ICSI	145	16	11.03	2.33	1.38	3.96	1.63	0.94	2.82	8	5.52	1.24	0.60	2.55	0.97	0.46	2.02

Confidence interval: CI, odds ratio: OR, Ovulation induction: OI, Artificial Insemination with husband's semen: AIH, In vitro fertilization: IVF, intracytoplasmic sperm injection: ICSI.

Multivariable logistic models were adjusted for maternal age, parity, gestational week, child sex, birth defect, multiple birth, maternal education level, and household income.

**Table S3.** Characteristics of study population for ET

	Total		Natural conception		ART (n=485)						P
	n=9,382	%	n=8,895	%	Fresh ET		Frozen-thawed ET		Missing		
					n=46	%	n=314	%	n=127	%	
<b>Mother's age, mean (SD), y</b>	32.7	4.7	32.4	4.6	37.8	3.6	37.3	3.8	36.8	3.6	<0.0001
<b>Pre-pregnancy BMI (kg/m<sup>2</sup>)</b>											
< 18.5	1,329	14.2	1,279	14.4	9	19.6	30	9.6	11	8.7	0.2997
18.5 to < 25.0	7,008	74.7	6,636	74.6	32	69.6	242	77.1	98	77.2	
≥ 25.0	1,042	11.1	977	11.0	5	10.9	42	13.4	18	14.2	
<b>Educational level</b>											
High school graduate or less	2,662	28.4	2,565	28.8	9	19.6	64	20.4	24	18.9	0.0018
Junior college or vocational college graduate	3,413	36.4	3,215	36.1	23	50.0	122	38.9	53	41.7	
University graduate or above	2,620	27.9	2,457	27.6	12	26.1	111	35.4	40	31.5	
<b>Household income (JPY/year)</b>											
< 4,000,000	3,054	32.6	2,974	33.4	6	13.0	53	16.9	21	16.5	<0.0001
4,000,000 to < 6,000,000	2,977	31.7	2,810	31.6	16	34.8	108	34.4	43	33.9	
≥ 6,000,000	2,881	30.7	2,658	29.9	22	47.8	144	45.9	57	44.9	
<b>Cigarette smoking</b>											
Never	5,999	64.4	5,675	64.3	24	52.2	209	66.8	91	71.7	<0.0001
Stopped before pregnancy	2,231	24.0	2,075	23.5	22	47.8	99	31.6	35	27.6	
Stopped after pregnancy	933	10.0	928	10.5	0	0.0	4	1.3	1	0.8	
Smoking at early pregnancy	151	1.6	150	1.7	0	0.0	1	0.3	0	0.0	
<b>Alcohol drinking</b>											
Drinking at early pregnancy	1,860	20.0	1,766	20.0	6	13.0	60	19.2	28	22.1	0.2181
Former	3,180	34.1	3,023	34.2	22	47.8	98	31.3	37	29.1	
Never	3,766	40.4	3,568	40.4	16	34.8	128	40.9	54	42.5	
Cannot drink because of constitution	519	5.6	482	5.5	2	4.4	27	8.6	8	6.3	
<b>Parity</b>											
Nullipara	4,362	46.5	4,024	45.2	35	76.1	212	67.5	91	71.7	<0.0001
Multipara	5,020	53.5	4,871	54.8	11	23.9	102	32.5	36	28.4	
<b>Child sex</b>											
Male	4,821	51.4	4,581	51.5	22	47.8	156	49.7	62	48.8	0.806
Female	4,561	48.6	4,314	48.5	24	52.2	158	50.3	65	51.2	
<b>Gestational week</b>											
≥37	8,772	93.5	8,338	93.7	38	82.6	285	90.8	111	87.4	<0.0001
< 37	610	6.5	557	6.3	8	17.4	29	9.2	16	12.6	
<b>Birth weight (g)</b>											
≥2,500	8,460	90.2	8,037	90.4	41	89.1	277	88.2	105	82.7	0.0814
< 2,500	908	9.7	844	9.5	5	10.9	37	11.8	22	17.3	
<b>Birth defect</b>											
No	9,208	98.2	8,740	98.4	45	97.8	302	96.2	121	95.3	0.0019
Yes	165	1.8	146	1.6	1	2.2	12	3.8	6	4.7	
<b>Multiple birth</b>											
No	9,196	98.0	8,746	98.3	42	91.3	287	91.4	121	95.3	<0.0001
Yes	186	2.0	149	1.7	4	8.7	27	8.6	6	4.7	
<b>ASQ-3 (2Y)</b>											
> Mean -2SD	8,003	85.3	7,626	85.7	33	71.7	242	77.1	102	80.3	<0.0001
≤ Mean-2SD	1,379	14.7	1,269	14.3	13	28.3	72	22.9	25	19.7	
<b>ASQ-3 (3.5Y)</b>											
> Mean -2SD	8,165	87.0	7,746	87.1	39	84.8	269	85.7	111	87.4	0.8594
≤ Mean-2SD	1,217	13.0	1,149	12.9	7	15.2	45	14.3	16	12.6	
<b>Father's age, mean (SD), y</b>	n=4,041		n=3,784		n=25		n=169		n=63		
	34.5	5.7	34.2	5.6	38.9	4.1	38.9	5.3	38.8	5.4	<0.0001

Standard deviation: SD, Body mass index: BMI, Embryo transfer: ET, Assisted reproductive technology: ART, Ages &amp; Stages Questionnaires, Third Edition: ASQ-3.

**Table S4.** Odds ratios (95% CIs) from logistic regression models for ET and children's neurodevelopment at the age of 2 and 3.5 years (n=485)

	2 years									3.5 years								
	N	n	%	Crude			Adjusted			n	%	Crude			Adjusted			
				OR	95% CI		OR	95% CI				OR	95% CI		OR	95% CI		
					Lower	Upper		Lower	Upper				Lower	Upper		Lower	Upper	
<b>Total score</b>																		
Natural conception	8,895	1,269	14.27	ref			ref			1,149	12.92	ref			ref			
Fresh ET	46	13	28.26	2.37	1.24	4.51	1.71	0.88	3.33	7	15.22	1.21	0.54	2.71	1.12	0.49	2.58	
Frozen-thawed ET	314	72	22.93	1.79	1.37	2.34	1.39	1.05	1.85	45	14.33	1.13	0.82	1.56	1.07	0.76	1.50	
<b>Communication</b>																		
Natural conception	8,895	445	5	ref			ref			482	5.42	ref			ref			
Fresh ET	46	4	8.7	1.81	0.65	5.07	1.43	0.49	4.19	1	2.17	0.39	0.05	2.82	0.33	0.04	2.42	
Frozen-thawed ET	314	16	5.1	1.02	0.61	1.70	0.88	0.52	1.50	23	7.32	1.38	0.89	2.13	1.28	0.81	2.02	
<b>Gross motor</b>																		
Natural conception	8,895	483	5.43	ref			ref			367	4.13	ref			ref			
Fresh ET	46	5	10.87	2.12	0.84	5.40	1.51	0.59	3.90	2	4.35	1.06	0.26	4.37	0.84	0.20	3.53	
Frozen-thawed ET	314	34	10.83	2.12	1.47	3.06	1.65	1.12	2.43	21	6.69	1.67	1.06	2.63	1.37	0.85	2.21	
<b>Fine motor</b>																		
Natural conception	8,895	389	4.37	ref			ref			513	5.77	ref			ref			
Fresh ET	46	3	6.52	1.53	0.47	4.94	1.06	0.32	3.47	3	6.52	1.14	0.35	3.69	1.11	0.34	3.67	
Frozen-thawed ET	314	21	6.69	1.57	1.00	2.47	1.21	0.75	1.94	19	6.05	1.05	0.66	1.69	1.01	0.62	1.65	
<b>Problem solving</b>																		
Natural conception	8,895	354	3.98	ref			ref			505	5.68	ref			ref			
Fresh ET	46	3	6.52	1.68	0.52	5.45	1.07	0.32	3.56	1	2.17	0.37	0.05	2.68	0.34	0.05	2.49	
Frozen-thawed ET	314	23	7.32	1.91	1.23	2.95	1.33	0.84	2.11	18	5.73	1.01	0.62	1.64	0.95	0.57	1.56	
<b>Personal-social</b>																		
Natural conception	8,895	449	5.05	ref			ref			400	4.5	ref			ref			
Fresh ET	46	3	6.52	1.31	0.41	4.25	0.82	0.25	2.74	2	4.35	0.97	0.23	4.00	0.75	0.18	3.19	
Frozen-thawed ET	314	36	11.46	2.44	1.70	3.49	1.76	1.20	2.58	17	5.41	1.22	0.74	2.00	0.99	0.59	1.66	

Confidence interval: CI, odds ratio: OR, Embryo transfer: ET.

Multivariable logistic models were adjusted for maternal age, parity, gestational week, child sex, birth defect, multiple birth, maternal education level, and household income.

**Table S5.** Odds ratios (95% CIs) from logistic regression models for infertility treatment and children's neurodevelopment at the age of 2 and 3.5 years (n=9,271)

	2 years										3.5 years						
	N	n	%	Crude			Adjusted			n	%	Crude			Adjusted		
				OR	95% CI		OR	95% CI				OR	95% CI		OR	95% CI	
					Lower	Upper		Lower	Upper				Lower	Upper		Lower	Upper
Total score																	
Natural conception	8,602	1,200	13.95	ref			ref			1,092	12.69	ref			ref		
OI/AIH	239	48	20.08	1.55	1.12	2.14	1.36	0.98	1.89	35	14.64	1.18	0.82	1.70	1.20	0.83	1.75
ART	430	90	20.93	1.63	1.28	2.08	1.33	1.03	1.71	57	13.26	1.05	0.79	1.40	1.05	0.78	1.41
Communication																	
Natural conception	8,602	411	4.78	ref			ref			452	5.25	ref			ref		
OI/AIH	239	19	7.95	1.72	1.07	2.78	1.77	1.08	2.90	15	6.28	1.21	0.71	2.05	1.30	0.76	2.23
ART	430	19	4.42	0.92	0.58	1.48	0.87	0.53	1.41	22	5.12	0.97	0.63	1.51	1.01	0.64	1.59
Gross motor																	
Spontaneous pregnancy	8,602	452	5.25	ref			ref			336	3.91	ref			ref		
OI/AIH	239	17	7.11	1.38	0.84	2.28	1.14	0.69	1.90	13	5.44	1.42	0.80	2.50	1.26	0.71	2.24
ART	430	40	9.30	1.85	1.32	2.60	1.50	1.05	2.14	21	4.88	1.26	0.80	1.99	1.10	0.69	1.76
Fine motor																	
Natural conception	8,602	363	4.22	ref			ref			479	5.57	ref			ref		
OI/AIH	239	17	7.11	1.74	1.05	2.88	1.51	0.90	2.52	16	6.69	1.22	0.73	2.04	1.19	0.70	2.02
ART	430	30	6.98	1.70	1.16	2.50	1.33	0.89	2.00	26	6.05	1.09	0.73	1.64	1.09	0.71	1.67
Problem solving																	
Natural conception	8,602	326	3.79	ref			ref			475	5.52	ref			ref		
OI/AIH	239	11	4.6	1.23	0.66	2.27	0.98	0.53	1.84	17	7.11	1.31	0.79	2.17	1.34	0.80	2.24
ART	430	25	5.81	1.57	1.03	2.38	1.20	0.77	1.85	22	5.12	0.92	0.60	1.43	0.89	0.57	1.40
Personal-social																	
Natural conception	8,602	417	4.85	ref			ref			372	4.32	ref			ref		
OI/AIH	239	21	8.79	1.89	1.20	2.99	1.55	0.97	2.49	15	6.28	1.48	0.87	2.52	1.35	0.78	2.34
ART	430	35	8.14	1.74	1.21	2.49	1.28	0.88	1.86	22	5.12	1.19	0.77	1.86	1.02	0.65	1.62

Confidence interval: CI, odds ratio: OR, Ovulation induction: OI, Artificial Insemination with husband's semen: AIH, Assisted reproductive technology: ART.

Multivariable logistic models were adjusted for maternal age, parity, gestational week, childsex, maternal education level, and household income.

**Table S6.** Odds ratios (95% CIs) from logistic regression models for infertility treatment and children's neurodevelopment at the age of 2 and 3.5 years (n=9,655)

	N	n	%	2 years						3.5 years							
				Crude			Adjusted			Crude			Adjusted				
				OR	95% CI		OR	95% CI		OR	95% CI		OR	95% CI			
					Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper		
Total score																	
Natural conception	8,895	1,270	14.27	ref			ref			1,150	12.92	ref			ref		
OI/AIH	273	58	21.32	1.55	1.12	2.14	1.38	1.01	1.87	40	14.71	1.18	0.82	1.70	1.15	0.81	1.64
ART	487	109	22.47	1.63	1.28	2.08	1.37	1.08	1.73	67	13.81	1.05	0.79	1.40	1.04	0.78	1.37
Communication																	
Natural conception	8,895	446	5.01	ref			ref			483	5.43	ref			ref		
OI/AIH	273	27	9.93	1.72	1.07	2.78	1.99	1.29	3.08	17	6.25	1.21	0.71	2.05	1.16	0.69	1.94
ART	487	26	5.36	0.92	0.58	1.48	0.96	0.63	1.47	28	5.77	0.97	0.63	1.51	1.05	0.70	1.57
Gross motor																	
Spontaneous pregnancy	8,895	484	5.44	ref			ref			367	4.12	ref			ref		
OI/AIH	273	20	7.35	1.38	0.84	2.28	1.18	0.73	1.89	16	5.88	1.42	0.80	2.50	1.32	0.78	2.24
ART	487	48	9.90	1.85	1.32	2.60	1.53	1.10	2.13	25	5.15	1.26	0.80	1.99	1.04	0.67	1.62
Fine motor																	
Natural conception	8,895	389	4.37	ref			ref			514	5.78	ref			ref		
OI/AIH	273	17	6.25	1.74	1.05	2.88	1.34	0.80	2.23	19	6.99	1.22	0.73	2.04	1.24	0.76	2.02
ART	487	34	7.01	1.70	1.16	2.50	1.29	0.88	1.90	30	6.19	1.09	0.73	1.64	1.05	0.71	1.57
Problem solving																	
Natural conception	8,895	354	3.98	ref			ref			506	5.69	ref			ref		
OI/AIH	273	13	4.78	1.23	0.66	2.27	0.93	0.52	1.67	18	6.62	1.31	0.79	2.17	1.24	0.75	2.05
ART	487	32	6.60	1.57	1.03	2.38	1.19	0.80	1.77	26	5.36	0.92	0.60	1.43	0.91	0.60	1.37
Personal-social																	
Natural conception	8,895	449	5.05	ref			ref			401	4.51	ref			ref		
OI/AIH	273	24	8.82	1.89	1.20	2.99	1.52	0.98	2.38	16	5.88	1.48	0.87	2.52	1.23	0.72	2.09
ART	487	42	8.66	1.74	1.21	2.49	1.27	0.89	1.80	27	5.57	1.19	0.77	1.86	1.06	0.70	1.60

Confidence interval: CI, odds ratio: OR, Ovulation induction: OI, Artificial Insemination with husband's semen: AIH, Assisted reproductive technology: ART.

Multivariable logistic models were adjusted for maternal age, parity, gestational week (< 29, 29–34, 34–37, ≥ 37 weeks), child sex, birth defect, multiple birth, maternal education level, and household income.

**Table S7.** Odds ratios (95% CIs) from logistic regression models for infertility treatment and children's neurodevelopment at the age of 2 and 3.5 years (n=9,655)

	2 years									3.5 years								
	N	n	%	Crude			Adjusted			n	%	Crude			Adjusted			
				OR	95% CI		OR	95% CI				OR	95% CI		OR	95% CI		
					Lower	Upper		Lower	Upper				Lower	Upper		Lower	Upper	
<b>Total score</b>																		
Natural conception	8,895	1,270	14.27	ref			ref			1,150	12.92	ref			ref			
OI/AIH	273	58	21.32	1.55	1.12	2.14	1.35	0.99	1.84	40	14.71	1.18	0.82	1.70	1.12	0.79	1.60	
ART	487	109	22.47	1.63	1.28	2.08	1.37	1.08	1.73	67	13.81	1.05	0.79	1.40	1.04	0.79	1.38	
<b>Communication</b>																		
Natural conception	8,895	446	5.01	ref			ref			483	5.43	ref			ref			
OI/AIH	273	27	9.93	1.72	1.07	2.78	1.93	1.25	2.97	17	6.25	1.21	0.71	2.05	1.12	0.67	1.88	
ART	487	26	5.36	0.92	0.58	1.48	0.96	0.63	1.46	28	5.77	0.97	0.63	1.51	1.06	0.70	1.59	
<b>Gross motor</b>																		
Spontaneous pregnancy	8,895	484	5.44	ref			ref			367	4.12	ref			ref			
OI/AIH	273	20	7.35	1.38	0.84	2.28	1.14	0.71	1.84	16	5.88	1.42	0.80	2.50	1.24	0.73	2.11	
ART	487	48	9.90	1.85	1.32	2.60	1.52	1.09	2.11	25	5.15	1.26	0.80	1.99	1.05	0.68	1.62	
<b>Fine motor</b>																		
Natural conception	8,895	389	4.37	ref			ref			514	5.78	ref			ref			
OI/AIH	273	17	6.25	1.74	1.05	2.88	1.27	0.76	2.12	19	6.99	1.22	0.73	2.04	1.19	0.73	1.94	
ART	487	34	7.01	1.70	1.16	2.50	1.28	0.88	1.89	30	6.19	1.09	0.73	1.64	1.06	0.71	1.57	
<b>Problem solving</b>																		
Natural conception	8,895	354	3.98	ref			ref			506	5.69	ref			ref			
OI/AIH	273	13	4.78	1.23	0.66	2.27	0.89	0.50	1.59	18	6.62	1.31	0.79	2.17	1.19	0.72	1.97	
ART	487	32	6.60	1.57	1.03	2.38	1.19	0.80	1.77	26	5.36	0.92	0.60	1.43	0.92	0.60	1.39	
<b>Personal-social</b>																		
Natural conception	8,895	449	5.05	ref			ref			401	4.51	ref			ref			
OI/AIH	273	24	8.82	1.89	1.20	2.99	1.45	0.93	2.27	16	5.88	1.48	0.87	2.52	1.19	0.70	2.02	
ART	487	42	8.66	1.74	1.21	2.49	1.25	0.88	1.78	27	5.57	1.19	0.77	1.86	1.07	0.70	1.62	

Confidence interval: CI, odds ratio: OR, Ovulation induction: OI, Artificial Insemination with husband's semen: AIH, Assisted reproductive technology: ART.

Multivariable logistic models were adjusted for maternal age, parity, gestational week, birth weight, child sex, birth defect, multiple birth, maternal education level, and household income.