



Figure S1. Flow chart of case selection.

Table S1. Demographic comparison between the norms and study population in different age groups.

Low age group			Medium age group			High age group					
	Norm (<i>n</i> = 965)	SP (<i>n</i> = 193)	<i>P</i> valu e		Norm (<i>n</i> = 870)	SP (<i>n</i> = 145)	<i>P</i> valu e		Norm (<i>n</i> = 1 004)	SP (<i>n</i> = 251)	<i>P</i> valu e
Gender			0.81 1	Gender			0.81 7	Gender			0.95 5
Male	551 (57.1)	112 (58)		Male	471 (54.1)	80 (55.2)		Male	558 (55.6)	140 (55.8)	
Female	414 (42.9)	81 (42)		Female	399 (45.9)	65 (44.8)		Female	446 (44.4)	111 (44.2)	
Province			0.48 8	Province			0.92 7	Province			0.16 8
Beijing	65 (6.7)	12 (6.2)		Beijing	149 (19.4)	26 (17.9)		Beijing	420 (41.8)	120 (47.8)	
Shang- hai	562 (58.2)	106 (54.9)		Shang- hai	482 (55.4)	83 (57.2)		Shang- hai	475 (47.3)	100 (39.8)	
Guang- dong	300 (31.1)	63 (32.6)		Guang- dong	208 (21.6)	31 (21.4)		Guang- dong	64 (6.4)	16 (6.4)	
Others	38 (3.9)	12 (6.2)		Others	31 (3.6)	5 (3.4)		Others	45 (4.5)	15 (6)	
Father's education			0.97 3	Father's education			0.99 7	Father's education			0.95 0
Postgra- duate	94 (9.7)	18 (9.3)		Postgra- duate	80 (9.2)	14 (9.7)		Postgra- duate	99 (9.9)	27 (10.8)	
Bachelor	770 (79.8)	154 (79.8)		Bache- lor	579 (66.6)	96 (66.2)		Bache- lor	556 (55.4)	135 (53.8)	
Junior college	94 (9.7)	19 (9.8)		Junior college	148 (17)	25 (17.2)		Junior college	221 (22)	55 (21.9)	
High school	7 (0.7)	2 (1)		High school	63 (7.2)	10 (6.9)		High school	128 (12.7)	34 (13.5)	
Mother's education			0.94 2	Mother's educa- tion			0.86 0	Mother's educa- tion			0.96 3
Postgra- duate	65 (6.7)	14 (7.3)		Postgra- duate	79 (9.1)	11 (7.6)		Postgra- duate	59 (5.9)	15 (6)	
Bachelor	769 (79.7)	151 (78.2)		Bache- lor	570 (65.5)	93 (64.1)		Bache- lor	595 (59.3)	147 (58.6)	
Junior college	116 (12)	24 (12.4)		Junior college	160 (18.4)	30 (20.7)		Junior college	230 (22.9)	56 (22.3)	
High school	15 (1.6)	4 (2.1)		High school	61 (7)	11 (7.6)		High school	120 (12)	33 (13.1)	
Physiologi- cal			0.95 0	Physio- logical age (month)			0.97 9	Physio- logical age (month)			0.92 5

age (month)										
0-3	153 (15.9)	31 (16.1)		13-15	200 (23)	34 (23.4)		25-27	119 (11.9)	33 (13.1)
4-6	154 (16)	33 (17.1)		16-18	132 (15.2)	20 (13.8)		28-30	212 (21.1)	52 (20.7)
7-9	232 (24)	43 (22.3)		19-21	134 (15.4)	23 (15.9)		31-33	287 (28.6)	68 (27.1)
10-12	426 (44.1)	86 (44.6)		22-24	404 (46.4)	68 (46.9)		34-36	386 (38.4)	98 (39)
Paternal age (yrs)			0.78 1	Paternal age (yrs)			0.89 0	Paternal age (yrs)		0.97 0
<30	101 (10.5)	22 (11.4)		<30	65 (7.5)	10 (6.9)		<30	102 (10.2)	26 (10.4)
30-35	678 (70.3)	130 (67.4)		30-35	547 (62.9)	92 (63.4)		30-35	663 (66)	162 (64.5)
36-40	149 (15.4)	31 (16.1)		36-40	216 (24.8)	34 (23.4)		36-40	177 (17.6)	46 (18.3)
>40	37 (3.8)	10 (5.2)		>40	42 (4.8)	9 (6.2)		>40	62 (6.2)	17 (6.8)
Maternal age (yrs)			0.95 3	Maternal age (yrs)			0.81 3	Maternal age (yrs)		0.97 3
<30	296 (30.7)	58 (30.1)		<30	173 (19.9)	27 (18.6)		<30	258 (25.7)	62 (24.7)
30-35	565 (58.5)	115 (59.6)		30-35	614 (70.6)	101 (69.7)		30-35	621 (61.9)	157 (62.5)
36-40	97 (10.1)	18 (9.3)		36-40	59 (6.8)	13 (9)		36-40	112 (11.2)	28 (11.2)
>40	7 (0.7)	2 (1)		>40	24 (2.8)	4 (2.8)		>40	13 (1.3)	4 (1.6)

Note: All the P value>0.05, indicating no difference of demographic characteristic between the norm population and study population; SP=Study population.

Table S2. Rating criteria based on norms of three age groups.

Area	Physiological age (month)			Rating
	1–12 (n = 965)	13–24 (n = 870)	25–36 (n = 1004)	
GM	≥-2	≥-4	≥-7	Qualified
	<-2	<-4	<-7	Delayed
FM	≥-2	≥-5	≥-7	Qualified
	<-2	<-5	<-7	Delayed
CG	≥-1	≥-4	≥-6	Qualified
	<-1	<-4	<-6	Delayed
LG	≥-2	≥-4	≥-7	Qualified
	<-2	<-4	<-7	Delayed
SE	≥-2	≥-5	≥-7	Qualified
	<-2	<-5	<-7	Delayed
SC	≥-2	≥-4	≥-7	Qualified
	<-2	<-4	<-7	Delayed

Note: GM=Gross motor, FM=Fine motor, CG=Cognition, LG=Language, SE=Social emotion, SC=Self-care; the rating criteria was based on the difference between development age and physiological age, for example, if a child aged 6 years had the GM development age of 4 years ($4-6\geq-2$), then he was regarded as “qualified” in GM according to our criteria.