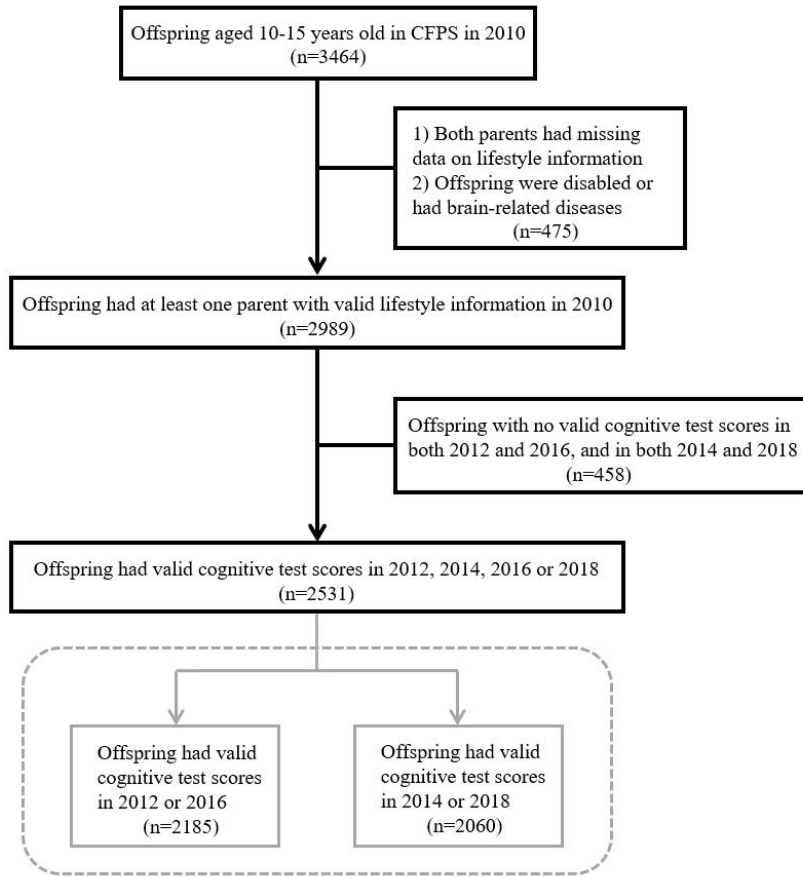


### **Supplementary Methods 1: Statistical analysis.**

Additionally, seven sets of sensitivity analyses were conducted to test the robustness of the findings. Based on the fully adjusted model, we (1) additionally adjusted for the offspring's earlier cognitive abilities during their toddlerhood (age to speak a complete sentence and age to count from 1 to 10); (2) further adjusted for offspring's BMI, maternal chronic disease history and BMI, and paternal chronic disease history and BMI to control for more potential confounders; (3) used modified parental healthy lifestyle score (afternoon nap excluded) ranging from 0 to 4; (4) retained only one child from the same family; (5) accounted for correlations within multiple offspring from the same family using the mixed linear model; (6) retained children whose parents both have complete lifestyle information; and (7) retained children who live with their mothers and fathers. Finally, we further explored the role of offspring lifestyle in the associations between parental lifestyle and offspring cognitive performance through the following: (1) examining correlations between maternal or paternal and offspring lifestyle factors using the Spearman correlation coefficients; (2) evaluating whether offspring lifestyle might mediate the associations we found; (3) investigating the associations between offspring lifestyle score and their cognitive performance after controlling for follow-up year, age, sex, Ethnic group, residency, and household income per capita; and (4) estimating offspring cognitive performance according to the combination of parental lifestyle scores (low or high) and offspring lifestyle scores (low or high).



**Supplementary Figure 1:** Flow chart of the study population.

**Supplementary Table 1:** Specific associations of maternal and paternal healthy lifestyle scores with offspring’s cognitive performance.

Variables	Tertiles of the healthy lifestyle score			<i>P</i> -trend
	Low	Medium	High	
	Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)	
Maternal				
Maternal healthy lifestyle score, median	2	3	4	
Overall fluid intelligence				
Crude model	Ref.	0.64 (0.45, 0.82)	0.85 (0.54, 1.16)	<0.001
Fully adjusted model	Ref.	0.31 (0.12, 0.51)	0.23 (−0.11, 0.57)	0.013

### Overall crystallized intelligence

Crude model	Ref.	0.63 (0.48, 0.79)	0.96 (0.76, 1.16)	<0.001
Fully adjusted model	Ref.	0.21 (0.05, 0.37)	0.22 (0, 0.44)	0.007

### Paternal

<b>Paternal healthy lifestyle score, median</b>	1	2	3
---	---	---	---

### Overall fluid intelligence

Crude model	Ref.	0.58 (0.37, 0.79)	0.91 (0.66, 1.16)	<0.001
Fully adjusted model	Ref.	0.42 (0.21, 0.62)	0.51 (0.25, 0.77)	<0.001

### Overall crystallized intelligence

Crude model	Ref.	0.61 (0.42, 0.79)	0.92 (0.72, 1.13)	<0.001
Fully adjusted model	Ref.	0.32 (0.15, 0.50)	0.32 (0.11, 0.53)	<0.001

Crude model: model adjusted for follow-up year, offspring's age, and sex. Fully adjusted model: model adjusted for follow-up year, offspring's age, sex, living with mother, living with father, maternal/paternal age, ethnic group, education level, employment status, residency, and household income per capita. CI: Confidence interval.

### Supplementary Table 2: Specific associations of maternal individual factors with offspring's cognitive performance.

Lifestyle factors			No. of participants	Crude model	Fully adjusted model
				Coef. (95% CI)	Coef. (95% CI)
Overall fluid intelligence					
Smoke	0	35	Ref.	Ref.	
	1	1994	0.09 (−0.52, 0.71)	0.09 (−0.53, 0.71)	
Drink	0	50	Ref.	Ref.	
	1	1979	−0.12 (−0.80, 0.57)	−0.10 (−0.78, 0.59)	
Exercise	0	1705	Ref.	Ref.	
	1	324	0.22 (−0.03, 0.47)	0.20 (−0.05, 0.45)	
Sleep	0	1989	Ref.	Ref.	
	1	40	0.45 (−0.22, 1.11)	0.44 (−0.23, 1.11)	

Diet	0	1321	Ref.	Ref.
	1	708	0.16 (−0.04, 0.35)	0.15 (−0.05, 0.34)
<b>Overall crystallized intelligence</b>				
Smoke	0	34	Ref.	Ref.
	1	1875	0.59 (0.04, 1.14)	0.52 (−0, 1.03)
Drink	0	51	Ref.	Ref.
	1	1858	0.52 (−0.03, 1.08)	0.48 (−0.06, 1.01)
Exercise	0	1605	Ref.	Ref.
	1	304	0.16 (−0.01, 0.33)	0.15 (−0.03, 0.32)
Sleep	0	1877	Ref.	Ref.
	1	32	0.07 (−0.50, 0.63)	0.04 (−0.52, 0.60)
Diet	0	1265	Ref.	Ref.
	1	644	0.15 (0, 0.30)	0.15 (0, 0.30)

Crude model: model adjusted for follow-up year, offspring's age, sex, living with mother, living with father, maternal age, ethnic group, education level, and employment status, residency, and household income per capita.

Fully adjusted model: model additionally adjusted for other lifestyle factors.

“1” represents meeting the criteria for low-risk lifestyle factors: “Smoke”, never smoking; “Drink”, non-habitual drinking (no more than three times per week in the last month); “Exercise”, weekly exercise; “Sleep”, taking a short afternoon nap (<30 min/day); “Diet”, modified dietary diversity score  $\geq 5$  points (top 35%), while “0” is on the opposite.

CI: Confidence interval.

**Supplementary Table 3: Specific associations of paternal individual factors with offspring's cognitive performance.**

Lifestyle factors	No. of participants	Crude model	Fully adjusted model
		Coef. (95% CI)	Coef. (95% CI)
Overall fluid intelligence			
Smoke	0	133	Ref.
			Ref.

	1	480	0.28 (0.08, 0.49)	0.27 (0.07, 0.47)
Drink	0	590	Ref.	Ref.
	1	1221	0.07 (−0.14, 0.28)	0.09 (−0.11, 0.30)
Exercise	0	1489	Ref.	Ref.
	1	322	0.40 (0.17, 0.64)	0.38 (0.15, 0.62)
Sleep	0	1780	Ref.	Ref.
	1	31	0.26 (−0.23, 0.74)	0.21 (−0.26, 0.68)
Diet	0	1087	Ref.	Ref.
	1	724	0.25 (0.05, 0.45)	0.25 (0.04, 0.45)

#### Overall crystallized intelligence

Smoke	0	1265	Ref.	Ref.
	1	447	0.10 (−0.07, 0.28)	0.10 (−0.07, 0.27)
Drink	0	579	Ref.	Ref.
	1	1133	0.14 (−0.03, 0.32)	0.18 (0.01, 0.35)
Exercise	0	1397	Ref.	Ref.
	1	315	0.21 (0.02, 0.41)	0.19 (−0, 0.39)
Sleep	0	1679	Ref.	Ref.
	1	33	−0.11 (−0.57, 0.34)	−0.14 (−0.59, 0.32)
Diet	0	1023	Ref.	Ref.
	1	689	0.29 (0.13, 0.45)	0.31 (0.15, 0.48)

Crude model: model adjusted for follow-up year, offspring's age, sex, living with mother, living with father, paternal age, ethnic group, education level, and employment status, residency, and household income per capita.

Fully adjusted model: model additionally adjusted for other lifestyle factors.

“1” represents meeting the criteria for low-risk lifestyle factors: “Smoke”, never smoking; “Drink”, non-habitual drinking (no more than three times per week in the last month); “Exercise”, weekly exercise; “Sleep”, taking a short afternoon nap (<30 min/day); “Diet”, modified dietary diversity score  $\geq 5$  points (top 35%), while “0” is on the opposite.

CI: Confidence interval.

**Supplementary Table 4: Subgroup associations of parental healthy lifestyle scores with offspring's cognitive performance.**

Variables	No. of participants	Tertiles of the healthy lifestyle score			P-interaction
		Low	Medium	High	
		Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)	
Overall fluid intelligence					
Offspring's age					
10–12 years	1107	Ref.	0.36 (0.06, 0.66)	0.42 (0.09, 0.75)	0.960
13–15 years	1078	Ref.	0.29 (−0.01, 0.60)	0.66 (0.31, 1.00)	
Offspring's sex					
Girl	1107	Ref.	0.46 (0.16, 0.76)	0.76 (0.44, 1.08)	0.309
Boy	1078	Ref.	0.20 (−0.12, 0.52)	0.29 (−0.06, 0.64)	
Residency					
Rural	1312	Ref.	0.32 (0.06, 0.58)	0.56 (0.23, 0.88)	0.873
Urban	873	Ref.	0.33 (−0.07, 0.72)	0.44 (0.07, 0.81)	
Parental education level					
Illiterate/semi-literate	380	Ref.	0.85 (0.29, 1.42)	0.73 (0.01, 1.44)	0.039
Primary school	566	Ref.	0.18 (−0.22, 0.58)	0.38 (−0.11, 0.87)	
Junior high school	814	Ref.	0.17 (−0.17, 0.51)	0.74 (0.40, 1.09)	
High school and above	425	Ref.	0.78 (0.20, 1.37)	0.61 (0.04, 1.18)	
Household income per capita					
Low	1049	Ref.	0.40 (0.10, 0.70)	0.70 (0.34, 1.05)	0.583
High	1048	Ref.	0.25 (−0.09, 0.60)	0.39 (0.05, 0.74)	
Parental employment status					
Unemployed	534	Ref.	0.64 (0.18, 1.10)	0.68 (0.18, 1.17)	0.550
Employed	1651	Ref.	0.25 (0.01, 0.49)	0.50 (0.23, 0.77)	
Overall crystallized intelligence					

Offspring's age					
10–12 years	1078	Ref.	0.21 (−0.02, 0.44)	0.21 (−0.03, 0.46)	0.004
13–15 years	982	Ref.	0.25 (−0.03, 0.54)	0.56 (0.26, 0.86)	
Offspring's sex					
Girl	1034	Ref.	0.34 (0.09, 0.59)	0.29 (0.03, 0.55)	0.127
Boy	1026	Ref.	0.13 (−0.15, 0.40)	0.46 (0.18, 0.74)	
Residency					
Rural	1257	Ref.	0.24 (0, 0.49)	0.32 (0.06, 0.59)	0.674
Urban	803	Ref.	0.14 (−0.15, 0.44)	0.34 (0.05, 0.63)	
Parental education level					
Illiterate/semi-literate	353	Ref.	0.44 (−0.17, 1.04)	0.70 (0.02, 1.37)	0.094
Primary school	528	Ref.	0.05 (−0.31, 0.40)	0.25 (−0.17, 0.67)	
Junior high school	775	Ref.	0.27 (0.02, 0.52)	0.47 (0.21, 0.74)	
High school and above	404	Ref.	0.46 (0.02, 0.90)	0.54 (0.12, 0.95)	
Household income per capita					
Low	990	Ref.	0.19 (−0.09, 0.47)	0.36 (0.05, 0.67)	0.238
High	989	Ref.	0.09 (−0.17, 0.35)	0.24 (−0.02, 0.49)	
Parental employment status					
Unemployed	521	Ref.	0.70 (0.34, 1.05)	0.71 (0.30, 1.11)	0.131
Employed	1539	Ref.	0.06 (−0.15, 0.27)	0.24 (0.02, 0.46)	

Model adjusted for follow-up year, offspring's age, sex, living with mother, living with father, maternal age, ethnic group, education level, and employment status, paternal age, ethnic group, education level, and employment status, residency, and household income per capita. CI: Confidence interval.

**Supplementary Table 5: Sensitivity analyses for the associations of parental healthy lifestyle scores with offspring's cognitive performance of fluid intelligence.**

Variables	Tertiles of the healthy lifestyle score			<i>P</i> -trend
	Low	Medium	High	

		Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)	
<b>Sensitivity analysis 1: adjusted for offspring's early cognitive ability</b>					
Overall fluid intelligence	Ref.	0.33 (0.11, 0.54)	0.50 (0.26, 0.74)	<0.001	
Immediate word recall (z-transformation)	Ref.	0.12 (0.03, 0.22)	0.14 (0.04, 0.24)	0.020	
Delayed word recall (z-transformation)	Ref.	0.12 (0.03, 0.21)	0.18 (0.08, 0.29)	0.001	
Number series test (z-transformation)	Ref.	0.09 (−0.01, 0.19)	0.17 (0.06, 0.27)	0.002	
<b>Sensitivity analysis 2: adjusted for offspring's BMI; maternal chronic disease history, BMI; paternal chronic disease history, BMI</b>					
Overall fluid intelligence	Ref.	0.34 (0.12, 0.56)	0.53 (0.29, 0.76)	<0.001	
Immediate word recall (z-transformation)	Ref.	0.13 (0.03, 0.22)	0.15 (0.04, 0.25)	0.014	
Delayed word recall (z-transformation)	Ref.	0.12 (0.03, 0.21)	0.20 (0.09, 0.30)	<0.001	
Number series test ore (z-transformation)	Ref.	0.09 (−0, 0.19)	0.18 (0.07, 0.28)	0.001	
<b>Sensitivity analysis 3: adjusted for offspring's lifestyle score (N = 2093)</b>					
Overall fluid intelligence	Ref.	0.34 (0.13, 0.56)	0.51 (0.26, 0.75)	<0.001	
Immediate word recall (z-transformation)	Ref.	0.13 (0.03, 0.23)	0.15 (0.04, 0.25)	0.021	
Delayed word recall (z-transformation)	Ref.	0.13 (0.03, 0.22)	0.20 (0.09, 0.31)	0.001	
Number series test (z-transformation)	Ref.	0.10 (−0, 0.19)	0.16 (0.05, 0.27)	0.006	
<b>Sensitivity analysis 4: modified parental healthy lifestyle score (nap excluded)</b>					
Overall fluid intelligence	Ref.	0.34 (0.12, 0.55)	0.51 (0.27, 0.74)	<0.001	
Immediate word recall (z-transformation)	Ref.	0.12 (0.03, 0.22)	0.14 (0.04, 0.25)	0.016	
Delayed word recall (z-transformation)	Ref.	0.12 (0.03, 0.22)	0.18 (0.08, 0.29)	0.001	
Number series test (z-transformation)	Ref.	0.09 (−0, 0.19)	0.17 (0.07, 0.27)	0.002	
<b>Sensitivity analysis 5: retained only one child from the same family (N = 1959)</b>					
Overall fluid intelligence	Ref.	0.30 (0.07, 0.53)	0.50 (0.25, 0.74)	<0.001	
Immediate word recall (z-transformation)	Ref.	0.12 (0.01, 0.22)	0.14 (0.03, 0.25)	0.022	
Delayed word recall (z-transformation)	Ref.	0.12 (0.02, 0.22)	0.18 (0.07, 0.29)	0.003	
Number series test (z-transformation)	Ref.	0.08 (−0.03, 0.18)	0.18 (0.07, 0.29)	0.001	
<b>Sensitivity analysis 6: mixed linear model after adjusting correlation in the same family</b>					



Overall fluid intelligence	Ref.	0.34 (0.11, 0.56)	0.53 (0.29, 0.77)	<0.001
Immediate word recall (z-transformation)	Ref.	0.12 (0.03, 0.22)	0.15 (0.04, 0.25)	0.014
Delayed word recall (z-transformation)	Ref.	0.13 (0.03, 0.22)	0.20 (0.09, 0.30)	0.001
Number series test (z-transformation)	Ref.	0.09 (−0, 0.19)	0.18 (0.07, 0.29)	0.002

**Sensitivity analysis 7: retained children whose parents both have complete lifestyle information (*N* = 1655)**

Overall fluid intelligence	Ref.	0.31 (0.07, 0.54)	0.51 (0.25, 0.77)	<0.001
Immediate word recall (z-transformation)	Ref.	0.11 (0.01, 0.21)	0.15 (0.04, 0.26)	0.013
Delayed word recall (z-transformation)	Ref.	0.12 (0.02, 0.23)	0.20 (0.09, 0.32)	0.001
Number series test (z-transformation)	Ref.	0.08 (−0.02, 0.19)	0.16 (0.05, 0.27)	0.006

**Sensitivity analysis 8: retained children who live with their mothers and fathers (*N* = 2102)**

Overall fluid intelligence	Ref.	0.34 (0.12, 0.56)	0.55 (0.31, 0.79)	<0.001
Immediate word recall (z-transformation)	Ref.	0.13 (0.03, 0.22)	0.15 (0.05, 0.26)	0.013
Delayed word recall (z-transformation)	Ref.	0.12 (0.03, 0.22)	0.21 (0.10, 0.31)	<0.001
Number series test (z-transformation)	Ref.	0.09 (−0.01, 0.19)	0.19 (0.08, 0.29)	0.001

Model adjusted for follow-up year, offspring's age, sex, living with mother, living with father, maternal age, ethnic group, education level, and employment status, paternal age, ethnic group, education level, and employment status, residency, and household income per capita. BMI: Body mass index. CI: Confidence interval.

**Supplementary Table 6: Sensitivity analyses for the associations of parental healthy lifestyle scores with offspring's cognitive performance of crystallized intelligence.**

Variables	Tertiles of the healthy lifestyle score			<i>P</i> -trend
	Low	Medium	High	
	Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)	
Sensitivity analysis 1: adjusted for offspring’s early cognitive development				
Overall crystallized intelligence	Ref.	0.22 (0.04, 0.40)	0.34 (0.14, 0.53)	0.001
Vocabulary test (z-transformation)	Ref.	0.11 (0.01, 0.21)	0.16 (0.05, 0.27)	0.006
Mathematics test (z-transformation)	Ref.	0.11 (0.01, 0.21)	0.17 (0.06, 0.28)	0.002
Sensitivity analysis 2: adjusted for offspring’s BMI; maternal chronic disease history, BMI; paternal				

**chronic disease history, BMI**

Overall crystallized intelligence	Ref.	0.22 (0.03, 0.40)	0.34 (0.15, 0.54)	0.001
Vocabulary test (z-transformation)	Ref.	0.11 (0, 0.21)	0.16 (0.05, 0.27)	0.005
Mathematics test (z-transformation)	Ref.	0.11 (0.01, 0.21)	0.18 (0.07, 0.28)	0.002

**Sensitivity analysis 3: adjusted for offspring's lifestyle score (N = 1971)**

Overall crystallized intelligence	Ref.	0.25 (0.07, 0.43)	0.37 (0.17, 0.56)	<0.001
Vocabulary test (z-transformation)	Ref.	0.12 (0.02, 0.22)	0.17 (0.06, 0.28)	0.004
Mathematics test (z-transformation)	Ref.	0.13 (0.03, 0.23)	0.19 (0.08, 0.30)	0.001

**Sensitivity analysis 4: modified parental healthy lifestyle score (nap excluded)**

Overall crystallized intelligence	Ref.	0.21 (0.03, 0.39)	0.36 (0.16, 0.55)	<0.001
Vocabulary test (z-transformation)	Ref.	0.11 (0, 0.21)	0.16 (0.06, 0.27)	0.004
Mathematics test (z-transformation)	Ref.	0.11 (0.01, 0.21)	0.19 (0.08, 0.30)	0.001

**Sensitivity analysis 5: retained only one child from the same family (N = 1858)**

Overall crystallized intelligence	Ref.	0.24 (0.04, 0.43)	0.36 (0.16, 0.56)	0.001
Vocabulary test (z-transformation)	Ref.	0.12 (0.02, 0.23)	0.18 (0.07, 0.29)	0.002
Mathematics test (z-transformation)	Ref.	0.11 (0.01, 0.22)	0.18 (0.06, 0.29)	0.004

**Sensitivity analysis 6: mixed linear model after adjusting correlation in the same family**

Overall crystallized intelligence	Ref.	0.23 (0.05, 0.42)	0.36 (0.16, 0.56)	0.001
Vocabulary test (z-transformation)	Ref.	0.11 (0.01, 0.22)	0.17 (0.06, 0.28)	0.006
Mathematics test (z-transformation)	Ref.	0.12 (0.01, 0.22)	0.19 (0.08, 0.30)	0.002

**Sensitivity analysis 7: retained child whose parents both have complete lifestyle information (N = 1561)**

Overall crystallized intelligence	Ref.	0.18 (−0.02, 0.37)	0.30 (0.09, 0.51)	0.005
Vocabulary test (z-transformation)	Ref.	0.10 (−0.01, 0.22)	0.12 (0, 0.24)	0.056
Mathematics test (z-transformation)	Ref.	0.07 (−0.04, 0.18)	0.18 (0.06, 0.29)	0.003

**Sensitivity analysis 8: retained children who live with their mothers and fathers (N = 1976)**

Overall crystallized intelligence	Ref.	0.22 (0.03, 0.40)	0.32 (0.13, 0.52)	0.002
Vocabulary test (z-transformation)	Ref.	0.11 (0.06, 0.22)	0.15 (0.04, 0.26)	0.012
Mathematics test (z-transformation)	Ref.	0.11 (0.01, 0.21)	0.17 (0.06, 0.28)	0.004

---

Model adjusted for follow-up year, offspring's age, sex, living with mother, living with father, maternal age,

ethnic group, education level, and employment status, paternal age, ethnic group, education level, and employment status, residency, and household income per capita. BMI: Body mass index. CI: Confidence interval.

**Supplementary Table 7: Spearman correlation coefficients between parental and offspring lifestyle.**

Variables		Offspring					
		Smoke	Drink	Exercise	Sleep	Diet	Healthy lifestyle score
Mother	Smoke	−0.01	0.06	0.02	−0.01	−0.01	/
	Drink	−0.01	0.02	0.01	0	0.02	/
	Exercise	0	0.01	0.10	−0.06	0.16	/
	Sleep	0.01	0.02	0.03	−0.03	−0.02	/
	Diet	0	0.01	0.04	0	0.48	/
	Healthy lifestyle score	/	/	/	/	/	0.28
Father	Smoke	0.03	0.03	−0.03	0.03	0.03	/
	Drink	−0.03	0.04	0	0	−0.08	/
	Exercise	−0.04	−0.04	0.09	−0.04	0.13	/
	Sleep	0.01	−0.01	0.03	−0.02	−0.02	/
	Diet	−0.01	−0.01	0.03	−0.02	0.43	/
	Healthy lifestyle score	/	/	/	/	/	0.16
Parents	Healthy lifestyle score	/	/	/	/	/	0.24

**Supplementary Table 8: Associations of offspring lifestyle scores with offspring's cognitive performance.**

Variables	Tertiles of the healthy lifestyle score			P-trend
	Low	Medium	High	
	Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)	
<b>No. of offspring</b>	853	840	400	
<b>Offspring healthy lifestyle score, median</b>	3	4	5	
Overall fluid intelligence (z-transformation)	Ref.	−0.05 (−0.24, 0.14)	0.27 (0.03, 0.50)	0.007
Immediate word recall (z-transformation)	Ref.	−0.02 (−0.10, 0.06)	0.05 (−0.05, 0.16)	0.110

Delayed word recall (z-transformation)	Ref.	−0.05 (−0.13, 0.03)	0.02 (−0.08, 0.13)	0.465
Number series test (z-transformation)	Ref.	−0.02 (−0.10, 0.07)	0.17 (0.07, 0.28)	0.001
<b>No. of offspring</b>	829	780	362	
<b>Offspring healthy lifestyle score, median</b>	3	4	5	
Overall crystallized intelligence (z-transformation)	Ref.	−0.06 (−0.22, 0.09)	0.32 (0.14, 0.50)	<0.001
Vocabulary test (z-transformation)	Ref.	−0.05 (−0.14, 0.03)	0.16 (0.06, 0.25)	<0.001
Mathematics test (z-transformation)	Ref.	−0.01 (−0.10, 0.08)	0.16 (0.06, 0.27)	<0.001

Model adjusted for follow-up year, offspring's age, sex, ethnic group, residency, and household income per capita.

CI: Confidence interval.

**Supplementary Table 9: Characteristics of the original population, compare with the final included population.**

Characteristics	Original population	Final analysis	H/ $\chi^2$	P-value
<b>Offspring characteristics</b>				
No. of offspring	3464	2531	–	–
Age (mean $\pm$ SD)	12.56 $\pm$ 1.74	12.52 $\pm$ 1.73	1.06*	0.304
BMI (mean $\pm$ SD)	17.64 $\pm$ 3.60	17.68 $\pm$ 3.59	0.12*	0.727
Sex (male, No. [%])	1749 (50.5)	1260 (49.8)	0.27†	0.606
Ethnic group (Han, No. [%])	3066 (88.5)	2239 (88.5)	0†	0.987
Offspring earlier cognitive ability (mean $\pm$ SD)				
Age to speak a complete sentence	1.80 $\pm$ 0.78	1.78 $\pm$ 0.76	0.31*	0.578
Age to count from 1 to 10	3.13 $\pm$ 1.38	3.08 $\pm$ 1.35	1.14*	0.285
<b>Maternal characteristics</b>				
Age (mean $\pm$ SD)	38.70 $\pm$ 4.60	38.68 $\pm$ 4.59	0.01*	0.920
BMI (mean $\pm$ SD)	22.27 $\pm$ 3.03	22.32 $\pm$ 3.05	0.32*	0.573
Ethnic group (Han, No. [%])	2452 (88.1)	2070 (88.6)	0.26†	0.609
Education			1.51†	0.680

Illiterate/semi-literate (No. [%])	977 (35.1)	813 (34.8)	–	–
Primary school (No. [%])	739 (26.5)	628 (26.9)	–	–
Junior high school (No. [%])	731 (26.2)	635 (27.2)	–	–
High school and above (No. [%])	338 (12.1)	261 (11.2)	–	–
Chronic disease history (yes, No. [%])	368 (13.2)	319 (13.7)	0.17 <sup>†</sup>	0.677
Employment status (employed, No. [%])	1604 (59.3)	1365 (60.2)	0.35 <sup>†</sup>	0.555
<b>Paternal characteristics</b>				
Age (mean ± SD)	40.65 ± 5.16	40.59 ± 5.15	0.18 <sup>*</sup>	0.675
BMI (mean ± SD)	22.80 ± 3.08	22.81 ± 3.07	0.02 <sup>*</sup>	0.876
Ethnic group (Han, %)	2189 (88.5)	1863 (89.2)	0.44 <sup>†</sup>	0.507
Education			0.45 <sup>†</sup>	0.930
Illiterate/semi-literate (No. [%])	535 (21.6)	445 (21.3)	–	–
Primary school (No. [%])	651 (26.3)	546 (26.1)	–	–
Junior high school (No. [%])	883 (35.6)	765 (36.6)	–	–
High school and above (No. [%])	409 (16.5)	337 (16.1)	–	–
Chronic disease history (yes, No. [%])	257 (10.4)	212 (10.1)	0.05 <sup>†</sup>	0.827
Employment status (employed, No. [%])	1745 (71.9)	1480 (72.2)	0.03 <sup>†</sup>	0.856
<b>Family characteristics</b>				
Residency (urban, No. [%])	1308 (37.8)	976 (38.6)	0.37 <sup>†</sup>	0.545
Household income per capita in 2010, log scale (mean ± SD)	8.42 ± 0.95	8.46 ± 0.91	3.48 <sup>*</sup>	0.062

The results are expressed as means ± standard deviation for continuous variable or number (%) for categorical variables. BMI: Body mass index. <sup>\*</sup>H value. <sup>†</sup> $\chi^2$  value.