

Table and Figure Legends

Table S1. Definitions of LCAs in the CHARLS

Note: LCAs, life-course adversities. CHARLS, China Health and Retirement Longitudinal Study.

Table S2. Association between each type of maternal LCAs and history of adverse pregnancy outcomes

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Table S1. Definition of LCAs in the CHARLS

Types of LCAs		Questionnaire Items	Answers defined as exposure to each type
Substance abuse	cigarettes	Have you ever chewed tobacco, smoked a pipe, smoked self-rolled cigarettes, or smoked cigarettes/cigars?	Yes
	alcoholic beverages	Did you drink any alcoholic beverages, such as beer, wine, or liquor in the past year? How often?	Drink more than once a month.
Educational adversity	Disruption of schooling	Besides the Cultural Revolution, had you had any interruptions during your school education?	Yes

		(Interruptions mean that dropping out of school for at least one semester and then came back to school to continue study. Attention: Gaps (e.g., gaps between primary school and middle school, middle school and high school, or between high school and college) between two stages of studies are not included.)	
Neighborhood adversity	Unable to read or write	Can you read or write?	Yes
	Neighborhood safety	Was it safe being out alone at night in the neighborhood where you lived as a child? Is it very safe, somewhat safe, not very safe or not safe at all?	Not very safe/Not safe at all
	Whether the neighbor is willing to help	Were the neighbors of the place where you lived as a child willing to help each other out? Is it very willing to, somewhat willing to, not very willing to or not willing to?	Not very willing to/Not willing to at all
	Neighborhood relationship	Were the neighbors of the place where you lived as a child very close-knit? Is it very close-knit, somewhat close-knit, not very close-knit or not close-knit at all?	Not very close-knit/Not close-knit at all
	Neighborhood environment	Was the neighborhood of the place where you lived as a child very clean and attractive? Is it very clean and attractive, somewhat clean and attractive, not very clean and attractive or not clean and attractive at all?	Not very clean and attractive /Not clean and attractive at all
Interpersonal adversity	Bullying	When you were a child, how often were you picked	Often/Sometimes/Not very often

		on or bullied by kids in your neighborhood? Is it often, sometimes, rarely or never?	
		When you were a child, how often were you picked on or bullied by kids in your school? Is it often, sometimes, rarely or never?	Often/Sometimes/Not very often
	Loneliness	When you were a child, how often did you feel lonely for not having friends? Is it often, sometimes, not very often or never?	Often/Sometimes
Economic adversity	Dibao	How much Dibao assistance did your household receive last year? (if not applicable, fill in 0 yuan).	>0
	Economic adversity in childhood	When you were a child before age 17 was there ever a time when your family did not have enough food to eat?	Yes
Work adversity	Resigned due to health conditions	After you were 16 years old, because of a health condition, did you leave your job for one month or more?	Yes
	Have experienced discrimination at work	After you were 16 years old, because of ill health, did you experience any of the following? (Choose all that apply)	Denied promotions/Assignment to a task with fewer responsibilities/Working on tasks below your qualifications/Harassment by your boss or colleagues/Pay cuts/Dismissed
Health-related adversity	Bedridden before 15 years old	Before you were 15 years old (including 15 years old), because of a health condition, were you ever confined to bed or home for a month or more?	yes
	Bedridden after 15 years	After you were 16 years	yes

	old	old, because of a health condition, were you ever confined to bed or home for one month or more?	
	Prolonged hospitalization before the age of 15	Before you were 15 years old (including 15 years old), because of a health condition, were you ever hospitalized for a month or more?	yes
	Prolonged hospitalization after the age of 15	After you were 16 years old, because of a health condition, were you ever hospitalized for a month or more?	yes
	Hospitalized many times before the age of 15	Were you ever hospitalized more than three times within a 12-month period before you were 15 years old (including 15 years old)?	yes
	Hospitalized many times after the age of 15	Were you ever hospitalized more than three times within a 12-month period after you were 16 years old?	yes
	health condition before 15 years old	Before you were 15 years old (including 15 years old), would you say that compared to other children of the same age, you were	yes
	health condition after 15 years old	Next, I have some questions about your health. Would you say your health is excellent, very good, good, fair, or poor?	Poor
		Next, I have some questions about your health. Would you say your health is very good, good, fair, poor or very poor?	Poor/Very poor
	Depression Scale	10 questions	Score $\geq$ 10
Family adversity	Marital adversity	What is your marital status?	Separated/Divorced/Widowed
	Child death	Is he/she still alive or not?	No

Emotional neglect	How much love and affection did your female guardian give you while you were growing up?	Rarely/Never
	How much effort did your female guardian put into watching over you?	A little/Not at all
Family violence	Have your father ever beat up your mother?	Often/Sometimes
	Have your mother ever beat up your father?	Often/Sometimes
Parental divorce	Were your biological parents divorced?	Yes
Parental drug abuse	During the years you were growing up, which one of the followings did your female guardian ever have? (choose all that apply)	Drug
	During the years you were growing up, which one of the followings did your male guardian ever have? (choose all that apply)	Drug
Parents often fight with others	During the years you were growing up, which one of the followings did your female guardian ever have? (choose all that apply)	Often get into physical fights
	During the years you were growing up, which one of the followings did your male guardian ever have? (choose all that apply)	Often get into physical fights
Parents have abnormality of mind	Did your female guardian have abnormality of mind when you were young?	Yes
	Did your male guardian have abnormality of mind when you were young?	Yes
Parents with disabilities	Did your female guardian have a serious deformity when you were young?	yes
	Did your male guardian have a serious deformity	yes

	when you were young?	
Parental death	Is your biological mother alive?	no
	Is your biological father alive?	no
Sibling death	Do you have any sibling who died before age 6? If so, how many in total?	>0
Physical abuse	When you were growing up, did your female guardian ever hit you? Was that often, sometimes, rarely, or never?	Often/sometimes
	When you were growing up, did your male guardian ever hit you? Was that often, sometimes, rarely, or never?	Often/sometimes
prefer boys to girls	J8_b Did your male guardian prefer boys to girls?	Very much/Somewhat
	Did your female guardian prefer boys to girls?	Very much/Somewhat
Sibling hit	When you were growing up, how often did your brother or sister ever hit you? Was that often, sometimes, rarely, or never?	Often/Sometimes

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Table S2. Association between each type of maternal LCAs and history of adverse pregnancy outcomes

Types of LCAs	Adverse Pregnancy Outcomes	
	Risk, aOR (95% CI)	Count, Coefficient(95% CI)
Substance abuse	1.12 (0.92 to 1.36)	0.117 (-0.073 to 0.309)
Educational adversity	0.86 (0.74 to 0.99)	-0.153 (-0.301 to -0.005)
Neighborhood adversity	1.06 (0.98 to 1.15)	0.070 (-0.012 to 0.153)
Interpersonal adversity	1.33(1.19 to 1.47)	0.291(0.188 to 0.395)
Economic adversity	1.17(1.04 to 1.30)	0.153(0.043 to 0.263)
Work adversity	1.24(1.11 to 1.39)	0.226(0.112 to 0.340)
Health-related adversity	1.18(1.12 to 1.26)	0.178(0.122 to 0.235)
Family adversity	1.22(1.15 to 1.29)	0.206(0.151 to 0.262)

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