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Reporting Summary

Statistics

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our Editorial Policies and the Editorial Policy Checklist.

For	all st	atistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a	Cor	nfirmed
	\boxtimes	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	\boxtimes	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	\boxtimes	The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.
	\boxtimes	A description of all covariates tested
	\boxtimes	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
	\boxtimes	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
	\boxtimes	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted <i>Give P values as exact values whenever suitable.</i>
\boxtimes		For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
\boxtimes		For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
		Estimates of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated

Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.

Software and code

Policy information about <u>availability of computer code</u>

Not applicable for this study.

Data collection Not applicable for this study.

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

Data

Data analysis

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

The data that provide the findings of this study are available from the corresponding author upon reasonable request.

Field-spe	cific re	porting			
\times Life sciences	В	s the best fit for your research. If you are not sure, read the appropriate sections before making your selection. ehavioural & social sciences			
Life scier	nces stu	udy design			
All studies must dis	close on these	points even when the disclosure is negative.			
Sample size	Of the 345 participants, 282 participants completed the 12 months follow up in this study.				
Data exclusions	ita exclusions 5 subjects with anti-psychotic medication were excluded from main analysis.				
Replication	lication Not applicable for this study.				
Randomization	Not applicable for the present research.				
Blinding Not applicable.					
We require information	on from authors a	Decific materials, systems and methods about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.			
Materials & experimental systems Methods					
n/a Involved in th	ie study	n/a Involved in the study			
Antibodies		ChIP-seq			
Eukaryotic	cell lines	Flow cytometry			
Palaeontolo	ogy and archaeol	ogy MRI-based neuroimaging			
	Animals and other organisms				
Human research participants					
Clinical data					
Dual use re	esearch of concer	n			
Human rese	arch parti	cipants			
Policy information a	about <u>studies ir</u>	nvolving human research participants			
Study (TTC, http://ttc		The current study was conducted as part of the population-based biomarker subsample study of the Tokyo Teen Cohort Study (TTC, http://ttcp.umin.jp/) (pb-TTC), in which 345 adolescents (mean [standard deviation, SD], 13.5 [0.6] years) and their caregivers (mainly mothers) were included. The study examined biological markers, including AGEs and psychiatric			

symptoms as assessed with semi structured interviews by expert psychiatrists.

cohort study conducted in the Tokyo metropolitan area with > 3,000 adolescent-caregiver dyads.

The participants in the pb-TTC were recruited from a larger sample of the TTC project, a large-scale population-based birth

The study was approved by the research ethics committees of the Tokyo Metropolitan Institute of Medical Science.

Note that full information on the approval of the study protocol must also be provided in the manuscript.

Recruitment

Ethics oversight