nature portfolio

Corresponding author(s):	Ali Torkamani
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Reporting Summary

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.

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1 01	an statistical analyses, commit that the following items are present in the figure regend, table regend, main text, or methods section.
n/a	Confirmed
	\square The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	🔀 A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	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.
	A description of all covariates tested
	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
	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)
	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
\times	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 <i>d</i> , Pearson's <i>r</i>), 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 availability of computer code

Data collection

A smartphone application platform was used for data collection. We provide data resources required to replicate the primary calculated score (PRS) and all study data collected via electronic survey is provided as supplemental tables and deposited in the Dryad repository with accession provided in the manuscript.

Data analysis

Custom code was not used to perform data analysis.

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

Policy information about <u>availability of data</u>

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 $\underline{\text{policy}}$

The raw study data supporting all tables is available as Supplemental Table 1 or at the Dryad repository https://doi.org/10.5061/dryad.t1g1jwt3p Individual-level genetic data is not available for sharing and was not generated with NIH funding.

Field-specific reporting
Please select the one below that is the best fit for

rieiu-specific	reporting	
Please select the one below	that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.	
Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences	
For a reference copy of the docume	ent with all sections, see <u>nature.com/documents/nr-reporting-summany-flat.pdf</u>	
Behavioural	& social sciences study design	
All studies must disclose on	these points even when the disclosure is negative.	
Study description	Observational cohort based study with mixed quantitative and qualitative data collection.	
Research sample	Any adult self-referring to the study with smartphone access and pre-existing 23andMe genetic data.	
Sampling strategy	The study was launched with an indefinite sample size. We accepted all self-referring participants meeting the above requirements.	
Data collection	Data is collected by self-report via app-based and email-based surveys.	
Timing	Data collection started in August 2017 and stopped in January 2021.	
Data exclusions	o participants were excluded.	
Non-participation	1232 participants in the high and low CAD risk categories were lost to follow-up.	
Randomization	Study participants were randomized by nature, based on their polygenic risk score which is uncorrelated with clinical risk factors.	
Reporting fo	r specific materials, systems and methods	
We require information from a	uthors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, vant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.	
Materials & experime		
n/a Involved in the study	n/a Involved in the study	
Antibodies	ChIP-seq	
Eukaryotic cell lines	Flow cytometry	
Palaeontology and a	rchaeology MRI-based neuroimaging	
Animals and other organisms		
Human research participants		
Clinical data		
Dual use research of	concern	
Human research p	participants	
Policy information about stu	udies involving human research participants	
Population characteristics	Please see Table 1 for a full description of covariates.	
Recruitment	Word of mouth and social media announcements.	
Ethics oversight	The Scripps Health IRB approved the study protocol.	

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