

Supplementary Note 1: STROBE CHECKLIST

STROBE check list

	Item No	Recommendation	Yes/No	Page
Title and abstract	1	(a) Indicate the study’s design with a commonly used term in the title or the abstract	Yes	Abstract (experiment)
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Yes	Abstract
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	Yes	Page
Objectives	3	State specific objectives, including any prespecified hypotheses	No	No hypothesis provided due to nature of study
Methods				
Study design	4	Present key elements of study design early in the paper	Yes	Page 4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Yes	
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants	NA	Not applicable, selection of LLMs explained on page 5
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Yes	Supplement 2, Page 5
Data sources/measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	Yes	Page 6
Bias	9	Describe any efforts to address potential sources of bias	Yes	Page 6
Study size	10	Explain how the study size was arrived at	NA	Not based on size
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	NA	Qualitative judgement

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	NA	Qualitative judgement
		(b) Describe any methods used to examine subgroups and interactions	NA	Qualitative judgement
		(c) Explain how missing data were addressed	NA	Qualitative judgement
		(d) If applicable, describe analytical methods taking account of sampling strategy	NA	Qualitative judgement
		(e) Describe any sensitivity analyses	NA	Qualitative judgement
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	NA	Artificial intelligence
		(b) Give reasons for non-participation at each stage	NA	Artificial intelligence
		(c) Consider use of a flow diagram	NA	Artificial intelligence
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	NA	Artificial intelligence
		(b) Indicate number of participants with missing data for each variable of interest	NA	Artificial intelligence
Outcome data	15*	Report numbers of outcome events or summary measures	Yes	Page 6
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	Yes	Page 6
		(b) Report category boundaries when continuous variables were categorized	NA	Qualitative judgement
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA	Qualitative judgement
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA	Qualitative judgement
Discussion				

Key results	18	Summarise key results with reference to study objectives	Yes	Page 8
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	Yes	Page 9
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Yes	Page 8
Generalisability	21	Discuss the generalisability (external validity) of the study results	Yes	Page 8
Other information				
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	No funding	

Supplementary Data contents:

- Number 1- Title: Prompt information and reasoning for illnesses
- Number 2- Title: LLM responses
- Number 3 - Title: Eating disorder response and ratings
- Number 4- Title: Anxiety responses and ratings
- Number 5- Title: Depression response and ratings
- Number 6- Title: Schizophrenia response and ratings
- Number 7- Title: ADHD response and ratings
- Number 8- Title: Summary statistics
- Number 9-Title: Full ratings by case and explicit/implicit
- Number 10-Title: Scores listed for comparison between LLMs