The CHART Checklist

HEADING	#	CHART CHECKLIST ITEM	Page #*
Title & Abstract			
Title	**1a**	State that the study is assessing one or more generative AI-driven chatbots for clinical evidence or health advice.	
Abstract/Summary	**1b**	Apply a structured format, if applicable.	
Introduction			
Background	**2a**	State the scientific background, rationale, and healthcare context for evaluating the generative AI-driven chatbot(s), referencing relevant literature when applicable.	
	2b	State the aims and research questions including the target audience, intervention, comparator(s), and outcome(s).	
Methods			
Model Identifiers	**3a**	State the name and version identifier(s) of the generative AI model(s) and chatbot(s) under evaluation, as well as their date of release or last update.	
	3b	State whether the generative AI model(s) and chatbot(s) are open-source or closed-source/proprietary.	
Model Details	**4a**	State whether the generative AI model was a base model or a novel base model, tuned model, or fine-tuned model.	
	4b	If a base model is used, cite its development in sufficient detail to identify the model.	
	4c	If a novel base model, tuned model, or fine-tuned model is used, describe the pre- and/or post-implementation/deployment data and parameters.	
Prompt Engineering	**5a**	Describe the evolution of study prompt development.	
	5ai	Describe the sources of prompts.	
	5aii	State the number and characteristics of the individual(s) involved in prompt engineering.	
	5aiii	Provide details of any patient and public involvement during prompt engineering.	
	5b	Provide study prompts.	
Query Strategy	**6a**	State route of access to generative AI model.	
	6b	State the date(s) and location(s) of queries for the generative AI-driven chatbot(s) including the day, month, and year as well as city and country.	
	6c	Describe whether prompts were input into separate chat session(s).	
	6d	Provide all generative AI-driven chatbot output/responses	
Performance Evaluation	**7a**	Define the ground truth or reference standard used to define successful generative AI-driven chatbot performance.	
	7b	Describe the process undertaken for generative AI-driven chatbot performance evaluation.	
	7bi	State the number and characteristics of team members involved in performance evaluation.	
	7bii	Provide details of any patients and public involvement during the evaluation process.	
	7biii	State whether evaluators were blinded to the identity of the generative AI-driven chatbot(s) under assessment.	

Sample Size	**8**	Report how the sample size was determined.	
Data Analysis	**9a**	Describe statistical analysis methods, including any evaluation of reproducibility of generative AI-driven chatbot responses.	
	9ai	Report the measures used for performance evaluation.	
Results			
	10a	Report the alignment between generative AI-driven chatbot output and ground truth or reference standard using quantitative or mixed methods approaches as applicable.	
	10b	For responses deviating from the ground truth or reference standard, state the nature of the difference(s).	
	10c	Report the assessment for potentially harmful, biased, or misleading responses.	
Discussion			
	11a	Interpret study findings in the context of relevant evidence.	
	11b	Describe the strengths and limitations of the study.	
	11c	Describe the potential implications for practice, education, policy, regulation, and research.	
Open Science			
Disclosures	**12a**	Report any relevant conflicts of interest for all authors.	
Funding	**12b**	Report sources of funding and their role in the conduct and reporting of the study.	
Ethics	**12c**	Describe the process undertaken for ethical approval.	
	12ci	Describe the measures taken to safeguard data privacy of patient health information, as applicable.	
	12cii	State whether permission/licensing was obtained for the use of original, copyrighted data.	
Protocol	**12d**	Provide a study protocol.	
Data availability	**12e**	State where study data, code repository, and model parameters can be accessed.	

*If in supplementary appendix, indicate “supp” and appendix #, if applicable.