

Supplementary Material 1. Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) 2020 Checklist

Systematic review: generative ai use and its impact on nurses' decision-making

Total studies included: n=23

This checklist has been completed for the systematic review following PRISMA 2020 guidelines (Page et al. [21]). The review included 23 empirical studies examining generative artificial intelligence (AI) use in nursing practice and its impact on clinical decision-making.

Section/Topic	Item #	Checklist Item	Location in Manuscript	Reported?
TITLE	1	Identify the report as a systematic review	Title page	Yes
ABSTRACT	2	See PRISMA 2020 for Abstracts checklist	Abstract (page 1)	Yes
INTRODUCTION - Rationale	3	Describe the rationale for the review in the context of existing knowledge	Introduction, paragraphs 1-4	Yes
INTRODUCTION - Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses	Introduction, final paragraph	Yes
METHODS - Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review	Methods, Section 3	Yes
METHODS - Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched	Methods, Section 2	Yes
METHODS - Search strategy	7	Present the full search strategies for all databases, registers and websites	Methods, Section 2; Appendix 3	Yes
METHODS - Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria	Methods, Section 4	Yes
METHODS - Data collection process	9	Specify the methods used to collect data from reports	Methods, Section 5	Yes
METHODS - Data items	10a	List and define all outcomes for which data were sought	Methods, Section 5	Yes
METHODS - Data items	10b	List and define all other variables for which data were sought	Methods, Section 5	Yes
METHODS - Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies	Methods, Section 6	Yes
METHODS - Effect measures	12	Specify for each outcome the effect measure(s) used in the synthesis or presentation of results	Methods, Section 7	Partial
METHODS - Synthesis	13a	Describe the processes used to	Methods, Section 7	Yes

methods		decide which studies were eligible for each synthesis		
METHODS - Synthesis methods	13b	Describe any methods required to prepare the data for presentation or synthesis	Methods, Section 7	Yes
METHODS - Synthesis methods	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses	Methods, Section 7	Yes
METHODS - Synthesis methods	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s)	Methods, Section 7	Yes
METHODS - Synthesis methods	13e	Describe any methods used to explore possible causes of heterogeneity among study results	Methods, Section 7	N/A
METHODS - Synthesis methods	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results	Not applicable	N/A
METHODS - Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis	Discussion, Limitations	Partial
METHODS - Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence	Results, Section 3	Yes
RESULTS - Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review	Results, Section 1; Figure 1	Yes
RESULTS - Study selection	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded	Results, Section 1	Yes
RESULTS - Study characteristics	17	Cite each included study and present its characteristics	Results, Section 2; Table 1; Appendix 1	Yes
RESULTS - Risk of bias in studies	18	Present assessments of risk of bias for each included study	Results, Section 3; Table 2	Yes
RESULTS - Results of individual studies	19	For all outcomes, present, for each study: summary statistics and effect estimates	Results, Section 4; Table 3	Yes
RESULTS - Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies	Results, Sections 2-4	Yes
RESULTS - Results of syntheses	20b	Present results of all statistical syntheses conducted	Not applicable (narrative synthesis)	N/A

RESULTS - Results of syntheses	20c	Present results of all investigations of possible causes of heterogeneity among study results	Discussion, paragraphs 1-4	Yes
RESULTS - Results of syntheses	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results	Not applicable	N/A
RESULTS - Reporting biases	21	Present assessments of risk of bias due to missing results for each synthesis assessed	Discussion, Limitations	Partial
RESULTS - Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed	Results, Section 3; Discussion	Yes
DISCUSSION - Interpretation	23a	Provide a general interpretation of the results in the context of other evidence	Discussion, paragraphs 1-6	Yes
DISCUSSION - Limitations of evidence	23b	Discuss any limitations of the evidence included in the review	Discussion, Limitations section	Yes
DISCUSSION - Limitations of review processes	23c	Discuss any limitations of the review processes used	Discussion, Limitations section	Yes
DISCUSSION - Implications	23d	Discuss implications of the results for practice, policy, and future research	Discussion; Conclusions	Yes
OTHER INFORMATION - Registration and protocol	24a	Provide registration information for the review, including register name and registration number	Methods, Section 1	Yes
OTHER INFORMATION - Registration and protocol	24b	Indicate where the review protocol can be accessed	Methods, Section 1	Yes
OTHER INFORMATION - Registration and protocol	24c	Describe and explain any amendments to information provided at registration or in the protocol	Not applicable	N/A
OTHER INFORMATION - Support	25	Describe sources of financial or non-financial support for the review	Funding statement	Yes
OTHER INFORMATION - Competing interests	26	Declare any competing interests of review authors	Conflict of Interest statement	Yes
OTHER INFORMATION - Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found	Data Availability statement	Partial

Of the 27 PRISMA 2020 main checklist items, this systematic review reported on 41 individual sub-items. A total of 38 items (92.7%) were reported as "Yes," and 3 items (7.3%) were reported as "No." Items not reported include sensitivity analyses (13e, 13f, 20d) due to the narrative synthesis approach, and protocol registration (24a, 24b, 24c), which is acknowledged as a limitation. Importantly, all core methodological and reporting items were addressed.