

Additional file 1. PRISMA-ScR checklist

Artificial Intelligence in Nailfold Capillaroscopy: A Scoping Review of Validation, Reproducibility, and Clinical Translation

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Completed PRISMA-ScR checklist

This checklist indicates where each PRISMA Extension for Scoping Reviews (PRISMA-ScR) item is reported in the manuscript and supplementary material. Section numbers should be checked against the final submitted manuscript after typesetting.

Table 1: Completed PRISMA-ScR checklist.

Item	Topic	Checklist item	Location in submitted materials
1	Title	Identify the report as a scoping review.	Title page.
2	Structured summary	Provide a structured summary including background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions.	Abstract.
3	Rationale	Describe the rationale for the review and explain why a scoping review approach was appropriate.	Introduction; final paragraph before the review objectives; Methods, Section 2.1.
4	Objectives	Provide an explicit statement of the review questions and objectives.	Introduction; final paragraph.
5	Protocol and registration	Indicate whether a review protocol exists and provide registration information if available.	Methods, Section 2.1 Review Design and Reporting Framework. The review was not prospectively registered.
6	Eligibility criteria	Specify characteristics of eligible sources of evidence and provide a rationale.	Methods, Section 2.2 Eligibility Criteria; Additional file 2, Supplementary Appendix B.
7	Information sources	Describe all information sources and the date of the most recent search.	Methods, Section 2.3 Information Sources and Search Strategy; Additional file 2, Supplementary Appendix A.
8	Search	Present the full electronic search strategy for at least one database.	Additional file 2, Supplementary Appendix A.
9	Selection of sources of evidence	State the process for selecting sources of evidence.	Methods, Section 2.4 Study Selection; Figure 1; Additional file 2, Supplementary Appendices A and C.
10	Data charting process	Describe the methods used to chart data from included sources.	Methods, Section 2.5 Data Charting.
11	Data items	List and define variables for which data were sought.	Methods, Sections 2.5 and 2.6; Additional file 2, Supplementary Tables 3–6.

Item	Topic	Checklist item	Location in submitted materials
12	Critical appraisal of individual sources of evidence	If done, provide a rationale for conducting critical appraisal and describe the methods used.	Not applicable as formal critical appraisal. The review used descriptive validation and reproducibility indicators rather than a formal risk-of-bias or study-quality tool. See Methods, Section 2.6, and Discussion, Strengths and Limitations.
13	Synthesis of results	Describe the methods of handling and summarising charted data.	Methods, Section 2.6 Evidence Classification and Synthesis.
14	Selection of sources of evidence	Give numbers of sources screened, assessed for eligibility, and included, with reasons for exclusion.	Results, Figure 1; Additional file 2, Supplementary Appendix C.
15	Characteristics of sources of evidence	Present characteristics of included sources of evidence.	Results; Additional file 2, Supplementary Table 3.
16	Critical appraisal within sources of evidence	If done, present data on critical appraisal of included sources.	Not applicable as formal critical appraisal. Descriptive validation and reproducibility indicators are reported in Results, Figure 4, and Additional file 2, Supplementary Tables 5–6 and Supplementary Figure 2.
17	Results of individual sources of evidence	Present relevant charted data for each included source.	Additional file 2, Supplementary Tables 3–5.
18	Synthesis of results	Summarise and/or present charting results in relation to the review questions.	Results, Sections 3.1–3.5; Figures 2–4; Tables 1–2; Additional file 2, Supplementary Tables 6–8 and Supplementary Figures 1–2.
19	Summary of evidence	Summarise the main results and link them to the review questions and objectives.	Discussion, Sections 4.1–4.6.
20	Limitations	Discuss limitations of the scoping review process.	Discussion, Section 4.7 Strengths and Limitations.
21	Conclusions	Provide interpretation of results, implications, and next steps.	Conclusions.
22	Funding	Describe sources of funding for the scoping review and the role of funders.	Declarations, Funding.

Note

Additional file 2 contains the supplementary search strategies, Covidence workflow, evidence rules, PRISMA and evidence-set reconciliation, supplementary tables, supplementary figures, and supplementary references.