

PRISMA 2020 Checklist

Manuscript: Intra articular allogeneic umbilical cord mesenchymal stromal cells for knee osteoarthritis a systematic review and meta-analysis of controlled trials

Section and Topic	Item #	Checklist Item	Reported in Manuscript
TITLE	1	Identify the report as a systematic review	Title page
ABSTRACT	2	See PRISMA 2020 for Abstracts checklist	Abstract section
INTRODUCTION	3	Describe rationale for the review	Introduction
INTRODUCTION	4	Provide explicit statement of objectives	Introduction (final paragraph)
METHODS – Eligibility criteria	5	Specify inclusion and exclusion criteria	Methods – Eligibility Criteria
METHODS – Information sources	6	Specify all databases, registers, and other sources searched	Methods; Declarations Data Availability
METHODS – Search strategy	7	Present full search strategy	Methods (database search described; search terms available upon request)
METHODS – Selection process	8	Specify methods used to decide whether studies met criteria	Methods – Study Selection; PRISMA Flow Counts in Results
METHODS – Data collection process	9	Specify methods of data extraction	Methods – Data Extraction
METHODS – Data items	10a	List outcomes and definitions	Methods – Outcomes

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METHODS – Data items	10b	List other variables collected	Methods – Data Extraction
METHODS – Risk of bias assessment	11	Specify risk of bias methods	Methods – Risk of Bias
METHODS – Effect measures	12	Specify effect measures for outcomes	Methods – Statistical Analysis
METHODS – Synthesis methods	13a	Describe process to determine study eligibility for synthesis	Methods – Eligibility Criteria
METHODS – Synthesis methods	13b	Methods for preparing data	Methods – Data Extraction
METHODS – Synthesis methods	13c	Methods for tabulating or visually displaying results	Tables 1 and 2
METHODS – Synthesis methods	13d	Describe synthesis methods and model used	Methods – Statistical Analysis (random effects framework)
METHODS – Synthesis methods	13e	Methods to explore heterogeneity	Methods – Statistical Analysis (comparator subgroup analysis)
METHODS – Synthesis methods	13f	Sensitivity analyses	Not performed due to limited number of trials
METHODS – Reporting bias assessment	14	Methods used to assess reporting bias	Not formally assessed due to limited study number
METHODS – Certainty assessment	15	Methods to assess certainty of evidence	Discussion – Certainty of Evidence (GRADE)
RESULTS – Study selection	16a	Describe results of search and selection process	Results – Study Selection (PRISMA Flow Counts)

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RESULTS – Study selection	16b	Cite excluded studies and reasons	Results – Study Selection
RESULTS – Study characteristics	17	Present characteristics of included studies	Table 1
RESULTS – Risk of bias	18	Present risk of bias assessments	Results – Risk of Bias Summary
RESULTS – Results of individual studies	19	Present summary statistics for each study	Table 2
RESULTS – Results of syntheses	20a	Summarize characteristics and risk of bias among contributing studies	Results – Risk of Bias Summary
RESULTS – Results of syntheses	20b	Present results of statistical syntheses	Results – Primary and Secondary Outcomes
RESULTS – Results of syntheses	20c	Present investigations of heterogeneity	Comparator subgroup interpretation described in Results
RESULTS – Results of syntheses	20d	Sensitivity analyses	Not performed
RESULTS – Reporting biases	21	Present assessment of reporting biases	Not formally assessed
RESULTS – Certainty of evidence	22	Present certainty of evidence assessment	Discussion – Certainty of Evidence (GRADE)
DISCUSSION – Interpretation	23a	Provide general interpretation of results	Discussion (first 3 paragraphs)
DISCUSSION – Limitations	23b	Discuss limitations of evidence	Discussion – Limitations

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DISCUSSION – Limitations	23c	Discuss limitations of review process	Discussion – Limitations
DISCUSSION – Implications	23d	Discuss implications for practice and research	Discussion; Conclusion
OTHER INFORMATION – Registration	24a	Provide registration information	Not registered
OTHER INFORMATION – Protocol	24b	Indicate where protocol can be accessed	No published protocol
OTHER INFORMATION – Amendments	24c	Describe protocol amendments	Not applicable
OTHER INFORMATION – Support	25	Describe sources of financial/non-financial support	Funding section
OTHER INFORMATION – Competing interests	26	Declare competing interests	Conflict of Interest Statement
OTHER INFORMATION – Availability of data, code, materials	27	Report availability of materials	Data Availability section