PRISMA - COSMIN OUTCOME Measurement Instruments

Full report

Item 3: Plain language summary

If allowed by the journal, provide a plain language summary with background information and key findings.

Title	1	Title
Abstract	2	See tip sheets for Abstracts
Summary	**3**	**Plain language summary**
Open Science	4	Registration and protocol *a. Registration information* *b. Accession of protocol* *c. Protocol amendments*
	5	Support
	6	Competing interests
	7	Availability of data and other materials
Introduction	8	Rationale
	9	Objectives
Methods	10	Followed guidelines
	11	Eligibility criteria
	12	Information sources
	13	Search strategy
	14	Selection process
	15	Data collection process
	16	Data items
	17	Study risk of bias assessment
	18	Measurement properties
	19	Synthesis methods *a. Eligibility processes* *b. Methods for synthesis* *c. Causes of inconsistency* *d. Sensitivity analyses*
	20	Certainty assessment
	21	Formulating recommendations
Results	22	Study selection *a. Results of search and selection* *b. Excluded reports with reasons*
	23	OMI characteristics *a. Characteristics of OMIs* *b. Interpretability aspects of OMIs* *c. Feasibility aspects of OMIs*
	24	Study characteristics
	25	Risk of bias in studies
	26	Results of individual studies
	27	Results of syntheses *a. Results of syntheses conducted* *b. Results of causes of inconsistency* *c. Results of sensitivity analyses*
	28	Certainty of evidence
	29	Recommendations
Discussion	30	Discussion *a. Interpretation of results* *b. Limitations of evidence* *c. Limitations of review processes* *d. Implications*

Tips for reporting this item:

- Provide a short paragraph outlining the content of the report, using short sentences, aimed at non-specialists in the field and written at maximum Grade 9 level in a way that they can easily understand.
- If a technical term must be used, provide a description using simple language.
- The structure should answer the main questions of "who/what/where/when/how many/why?" in a concise manner.
- Provide a final sentence which explains why the research is important, and what the article has concluded.

Examples:

"Bone fractures of the lower extremities are a common injury. During rehabilitation it is essential to evaluate how patients experience their physical functioning, in order to monitor the progress and to optimize treatment. To measure physical functioning often questionnaires (also known as Patient Reported Outcome Measures) are used, such as the Lower Extremity Functional Scale (LEFS). However, it is not clear if the LEFS actually measures physical function, and if its other measurement properties are sufficient for using this questionnaire among patients with fractures in the lower extremities. Therefore, we systematically searched and assessed scientific papers on the development of the LEFS (i.e., its ability to measure physical functioning), and papers on the performance of the LEFS with regard to several measurement properties to identify possible factors that may cause measurement errors. Hereby we have assessed the quality of the studies included. Our main finding was that the LEFS may not measure all aspects of physical function. Given the low quality of the papers included in our study, these findings come with considerable uncertainty. As the LEFS was developed more than 20 years ago, it may not represent physical functioning as we currently conceptualize this. Therefore, we recommend to perform a study in which the content of the LEFS will be evaluated by experts in the field as well as patients, and modify the questionnaire as needed."

Ratter J et al. Content validity and measurement properties of the Lower Extremity Functional Scale in patients with fractures of the lower extremities: a systematic review. *Journal of Patient-Reported Outcomes,* 2022;6(1):1-14. https://doi.org/10.1186/s41687-022-00417-2.

See the E&E for more examples.

From: Elsman EBM, Mokkink LB, Terwee CB, Beaton D, Gagnier JJ, Tricco AC, et al. Guideline for reporting systematic reviews of outcome measurement instruments (OMIs): PRISMA-COSMIN for OMIs 2024. J Clin Epidemiol, 2024, https://doi.org/10.1016/j.jclinepi.2024.111422.

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