



Adherence to PRISMA 2020 statement in non- Cochrane Systematic Reviews of intervention

A meta-epidemiological study

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Conflict of interest

I have no actual or potential conflict of interest in relation to this presentation.

Background

- PRISMA statement ensures correct SRs reporting.
- The quality of SRs reporting is variable.
- PRISMA 2009 statement reporting is suboptimal in many items (Page et al. 2017, DOI: [10.1186/s13643-017-0663-8](https://doi.org/10.1186/s13643-017-0663-8)).
- Adherence to PRISMA 2020 statement is unknown.
- ***We aimed to assess its adherence in non-Cochrane SRs involving human interventions.***
 - We hypothesize it to be low.

Methods

- We searched MEDLINE (Pubmed) in february 2023.
- We extracted a random sample of 10% of the final search results.
- Inclusion criteria: non-Cochrane SRs involving human interventions from 2022 to 2023.
- One reviewer screened titles and abstracts, and full texts, and extracted data from included studies. Those processes were validated by the lead author.
- Adherence assessing: analysis fulfilling mandatory elements rate of PRISMA 2020 expanded checklist.

Results

Figure 1. Flowchart

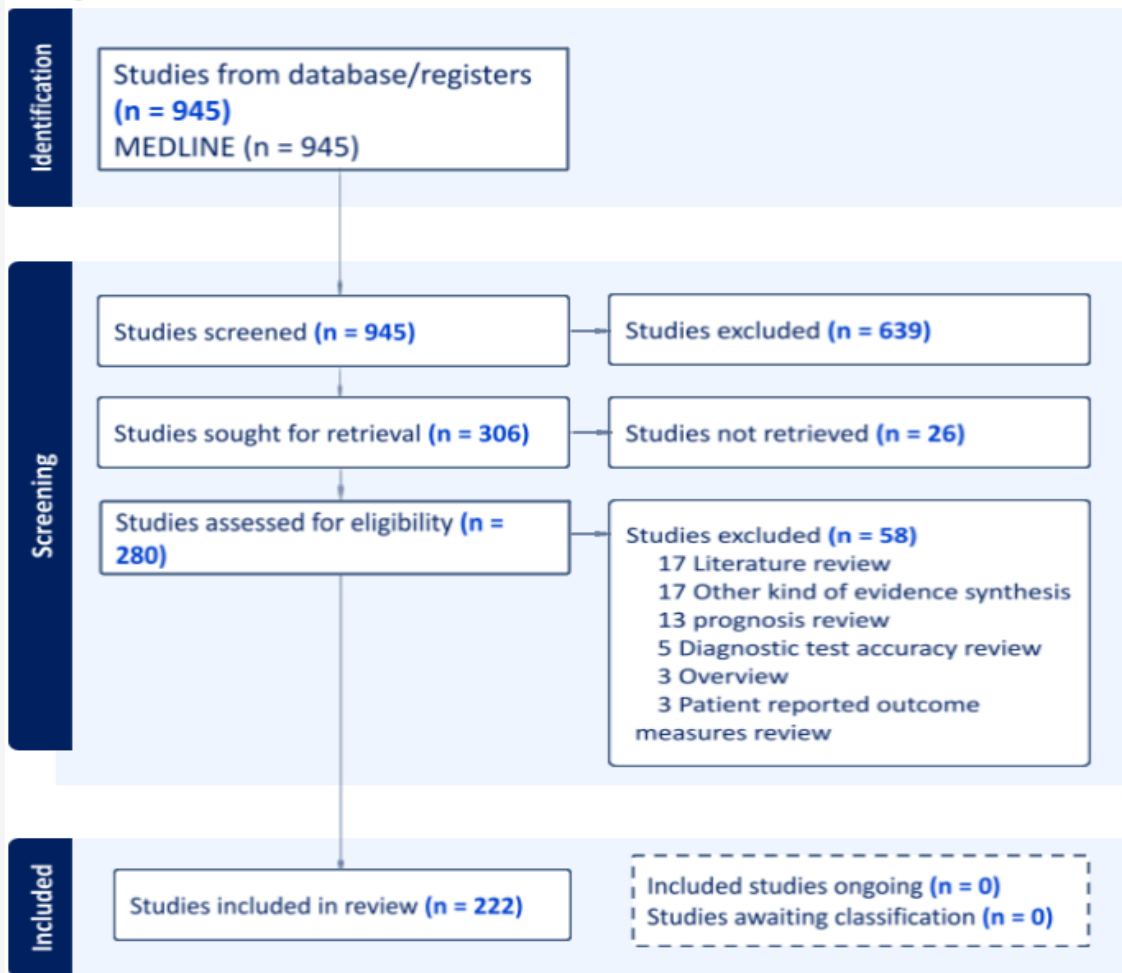
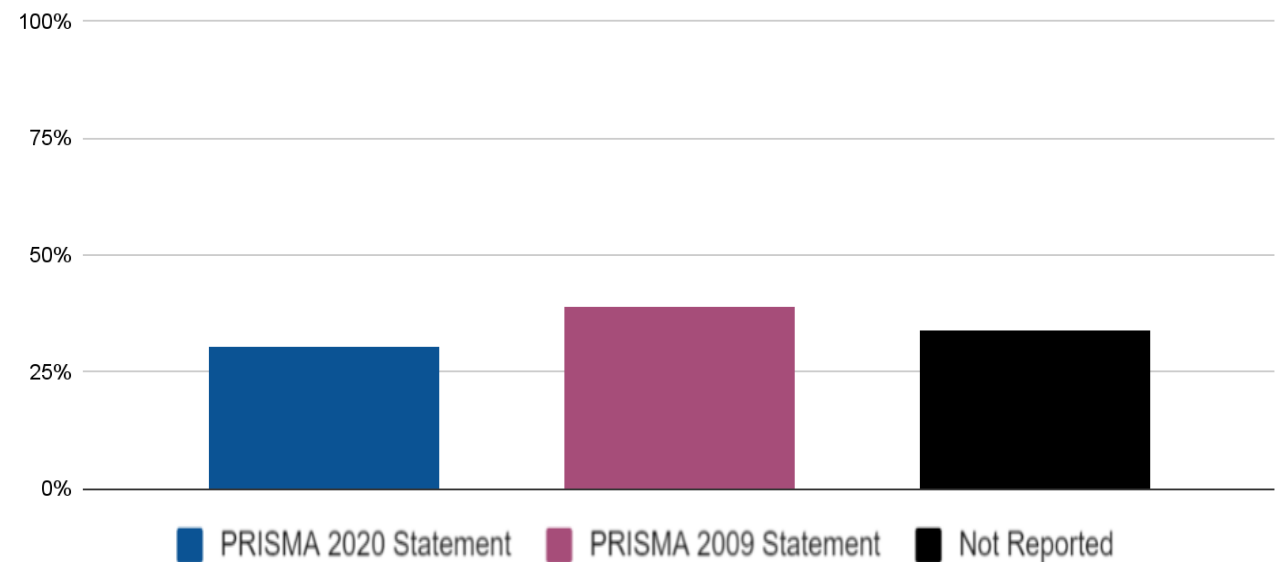


Figure 2. PRISMA Statement Uptake



Results

Table 1. Characteristics of included studies		
Variables	Non-Cochrane SRs, n(%)	PRISMA 2020, n(%)
Published Year		
2022	189/222 (85.14)	57/67 (85.07)
2023	33/222 (14.86)	10/67 (14.93)
First author Country		
USA	33/222 (14.86)	4/67 (5.97)
Italy	20/222 (9.01)	6/67 (8.96)
China	22/222 (9.91)	5/67 (7.46)
United Kingdom	18/222 (8.11)	5/67 (7.46)
Others	129/222 (58.11)	47/67 (70.15)
Population		
≥ 18 years	145/222 (65.32)	49/67 (73.13)
< 18 years	38/222 (17.12)	6/67 (8.96)
Mixed	31/222 (13.96)	9/67 (13.43)
Not reported	23/222 (10.36)	3/67 (4.48)

Table 1. Characteristics of included studies		
Variables	Non-Cochrane SRs, n(%)	PRISMA 2020, n(%)
Interventions		
Surgery	80/222 (36.04)	17/67 (25.37)
Pharmacological	58/222 (26.13)	16/67 (23.88)
Physical therapy	45/222 (20.27)	21/67 (31.34)
Psychological	6/222 (2.70)	2/67 (2.99)
Nutritional	3/222 (1.35)	1/67 (1.49)
Others	29/222 (13.06)	10/67 (14.93)
Topic		
Traumatology	36/222 (16.22)	7/67 (10.45)
Surgery	23/222 (10.36)	3/67 (4.48)
Oncology	22/222 (9.91)	7/67 (10.45)
Rehabilitation	18/222 (8.11)	4/67 (5.97)
Others	109/222 (49.10)	46/67 (68.65)

Results

Figure 3. Adherence Rate

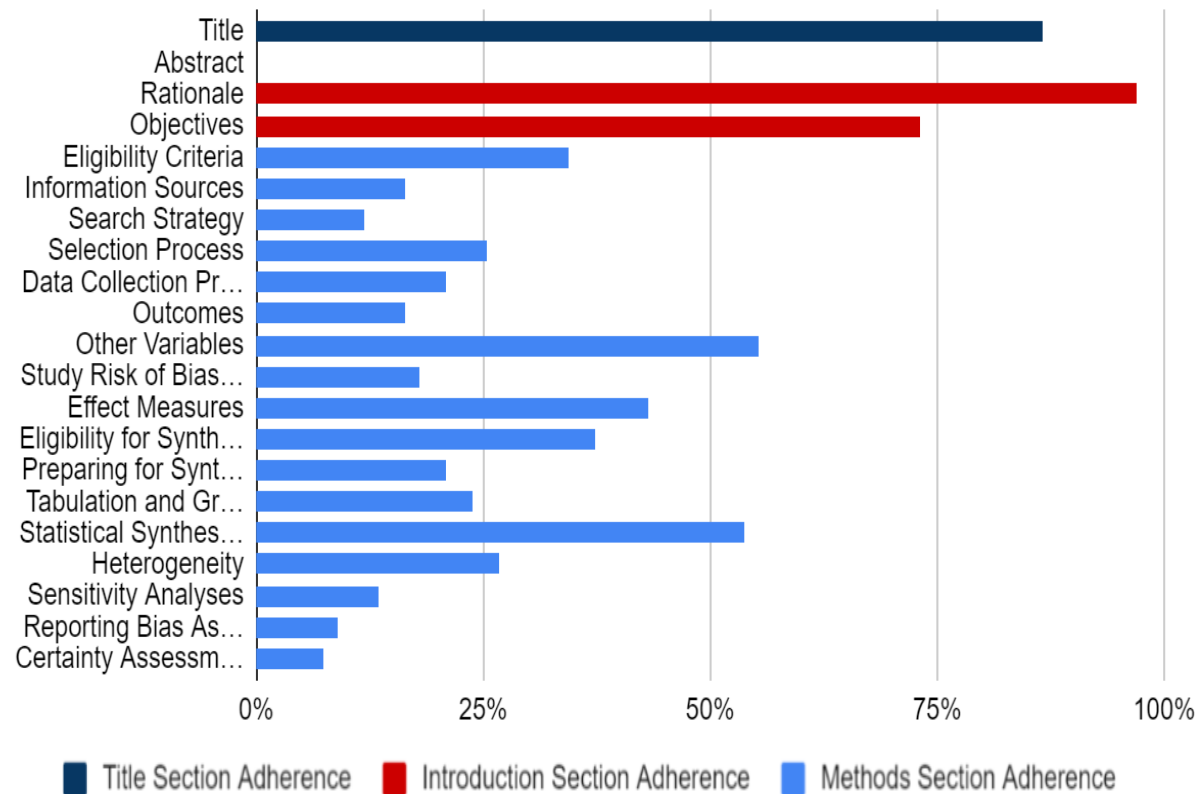
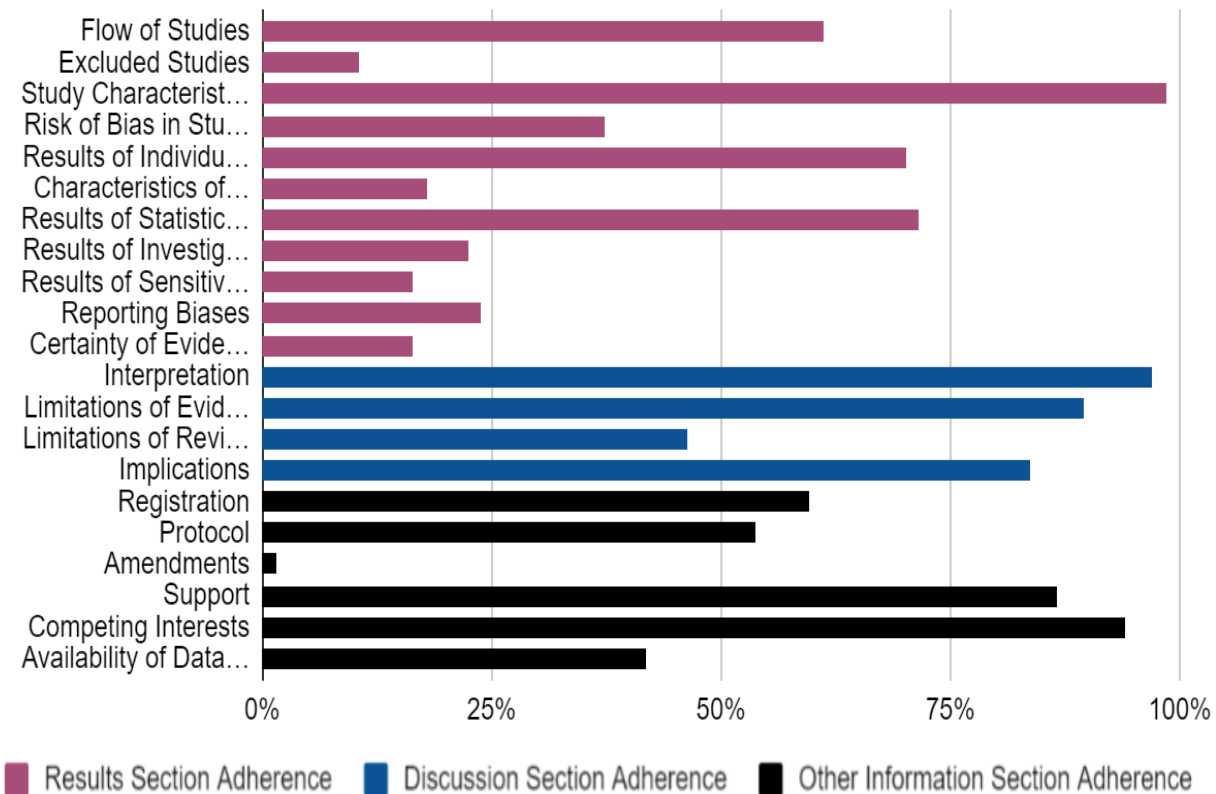


Figure 4. Adherence Rate



Conclusions

- The PRISMA 2020 uptake rate is still low.
- The overall PRISMA 2020 statement adherence was low.
- The PRISMA 2020 statement adherence was lower than the PRISMA 2009 statement one.
- The tool's novelty and the journals' conditions may affect its use.
- Further dissemination and training should be used to improve its adherence.



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Thank you for your attention

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