

Introduction

Medication review (MR) is a health care professional's systematic assessment of a patient's medications with recommendations for improvement (1).

To enable comparison between different evaluations of medication review-based interventions to determine whether the nature of activity differs, it is important that standardised language is used.

Currently, there is no accepted international taxonomy for describing medication review activities. Therefore, we undertook a systematic review of literature with narrative synthesis to determine whether standardisation may be appropriate.

Aim

To determine the range of terms used to describe medication review activities.

Methods

Search strategy

A PROSPERO registered systematic review was performed using search terms according to the Population, Intervention, Comparison and Outcome (PICO) framework. 'Population' & 'Comparison' were not used.

Keywords

Synonyms for medication review activities were used for both 'Intervention' and 'Outcomes', e.g., stop, start, change, alter.

Inclusion/Exclusion criteria

We included all papers reporting medication review activities in English with empirical data. Papers not using language to describe medication review activities were excluded.

Data extraction

Two researchers reviewed titles, abstracts, and full-text papers independently; discussion resolved any disagreement. It was conducted as per Cochrane Effective Practice and Organisation of Care (EPOC)

Quality assessment

The papers were assessed using the Mixed Method Appraisal Tool (MMAT).

Results

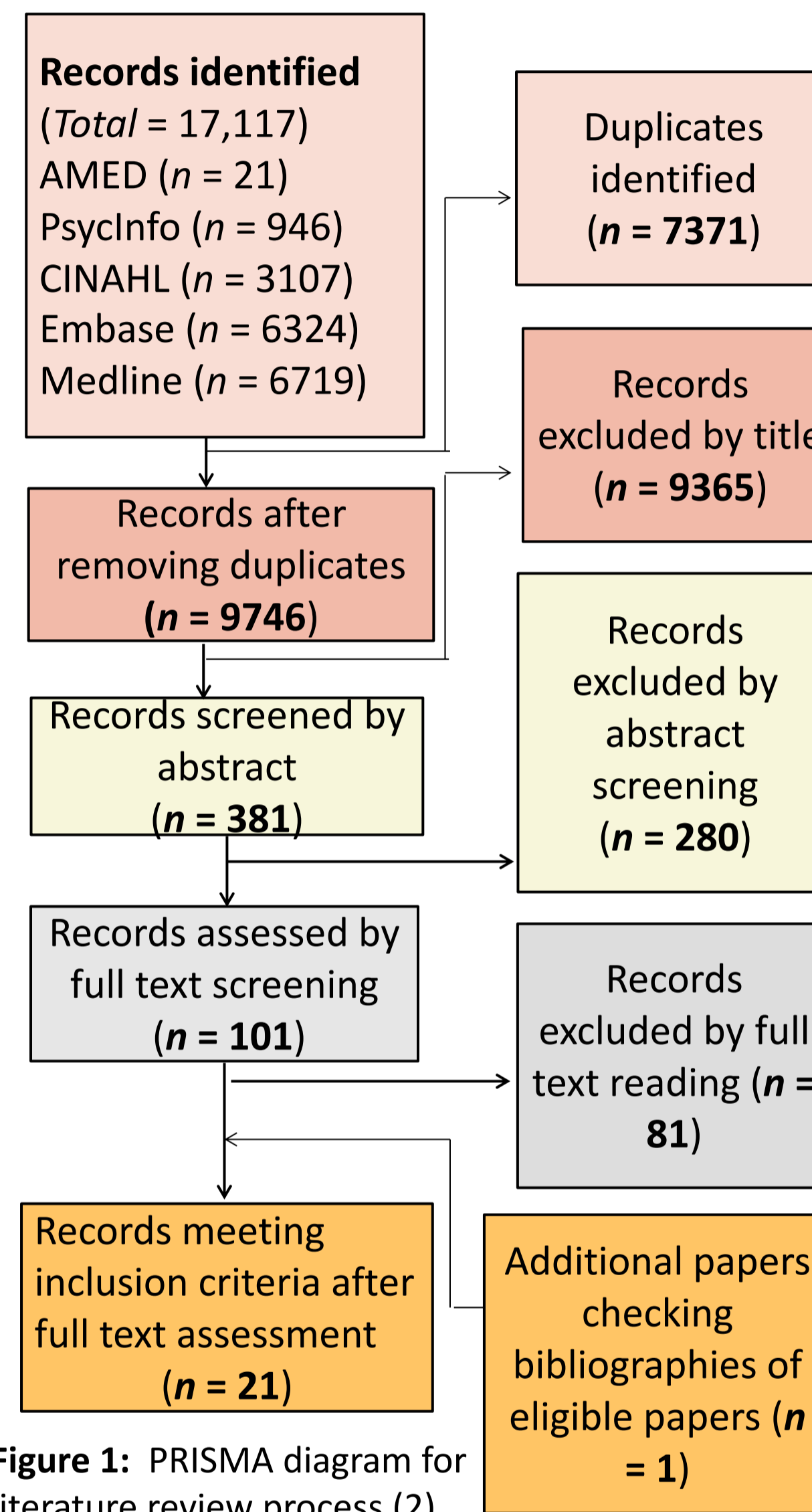


Figure 1: PRISMA diagram for literature review process (2)

Table 1: Terms used to describe medication review activities

Term	Description	Term	Description
Stop term	Withdraw of drug	Dose increase	Dose increase
	Stop medicine		Change dose
	Discontinue medicine		Alter dose
	Stop drug		Adjust dose
	Cease a drug		Dose adaptation
	Treatment stop		Consider rise dose
Start term	Start medicine	Dose decrease	dose reduction
	Add drug		alter dose
	Treatment start		adjust dose
	Initiate therapy		change dose
Change term (for medication)	Switch medicine	Change term (for formulation)	dose adaptation
	Change drug		reduce dosage
	Replacement of drug		Alter formulation
Change term (for timing)	Switch drug	Monitor term	Switch dose form
	Alter timing		Change dosage form
	Synchronise medication		Test to monitor medicine
	Change timing		Provide monitoring
	Change schedule		Monitor drug use
	Consider change dosage regimen		Laboratory tests
Frequency changed	Consider evaluation of therapy		
			Monitor therapy
			Evaluation of drug therapy

conclusion

- Various authors reported ambiguous medication review activities terms.
- 'Alter' and 'adaptation' are examples of ambiguous terms. Determining whether actions are related with activities to **reduce or increase doses** is difficult due to such terminology.
- Determining whether actions are related with activities to reduce or increase doses is difficult due to such terminology.
- As a result, comparing process evaluations for medication review interventions to examine the mechanism of impact may be difficult.
- A taxonomy to describe and define medication review activities, thereby standardising MR reporting, should improve the presentation of data from process evaluations and the ability to compare activity between studies.

References

- (1) Christensen M, Lundh A. Medication review in hospitalised patients to reduce morbidity and mortality. Cochrane Database Syst Rev [Internet]. 2016 Feb 20; Available from: <https://doi.wiley.com/10.1002/14651858.CD008986.pub3>
- (2) Moher D, Liberati A, Tetzlaff J, Altman DG. Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med [Internet]. 2009 Jul 21;6(7):e1000097. Available from: <https://dx.plos.org/10.1371/journal.pmed.1000097>

Contact email address:
msma10@leicester.ac.uk

