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Examination of search methodology and reporting

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Poor Quality in Systematic Reviews on PTSD and EMDR – An Examination of Search Methodology and Reporting

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Background: Different user groups regard systematic reviews as reliable sources for answering research questions. For systematic reviews to fulfill their purpose, methodological quality in all stages are of importance. The studies included in systematic reviews form the basis of the review, thus the search process is important for both performing and reporting the search. The purpose of this study was to evaluate the quality of non-Cochrane systematic reviews on eye movement desensitization and reprocessing (EMDR), a trauma-focused therapy commonly used for post-traumatic stress disorder (PTSD).

Methods and Results: We examined the method chapters of 20 systematic reviews on the subject, and rated their searches and reporting using relevant elements from the Cochrane Handbook and PRISMA. We found inadequacies in the methodology of the reviews, particularly in the search strategy. This could have been due to greater adherence to guiding documents for performing systematic reviews.

Conclusion: Our findings raise important questions for future debate on the quality of systematic reviews. The results indicate that the omission of studies, thus impairing the conclusions in a systematic review, is a common problem. To improve the quality of systematic reviews for practical purposes, researchers should investigate if, and how, the search strategy in a systematic review affects the body of knowledge and the results.

Keywords: systematic reviews, Cochrane handbook, PRISMA, search methodology, critical appraisals

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Mål og metode - 1

- Evaluere kvalitet på systematiske oversiktsartikler (Non-Cochrane) gjennom å analysere hvordan søk utføres og rapporteres.
 - Eksemplifisert gjennom PTSD og EMDR (2010 – 2017)
- Kritisk vurdering sjekkliste for oversiktsartikler

3. Er det sannsynlig at alle viktige og relevante studier ble funnet?

JA

UKLART

NEI

Tips:
Se etter:

- hvilke databaser og eventuelle søkemotorer forfatterne søkte i, og hvordan de søkte i dem (søkestrategi)
- om de søkte etter ikke-publiserte studier (i.f.eks. Trials.gov)
- om det var noen vesentlige begrensninger med hensyn til språk eller tid (hvis kun studier på engelsk er tatt med, kan det gi skjevhet)

- Cochrane Handbook (søkemetode)
- PRISMA guidelines (dokumentasjon av søk)

Mål og metode - 2

- Cochrane handbook (søk)
 - Minimum: Central, Medline, Embase
 - Fagspesifikke databaser: PsycInfo, PILOTS
 - Emneord
- PRISMA (rapportering)
 - Tittel
 - Databasenavn og databasevert, tidsperiode, dato siste søk
 - Supplerende teknikker
 - Søkestrategi
 - Flytdiagram
- Kontekst



Forfatter:	År:	Cochrane Handbook (searching)							PRISMA			
		Central	Medlir	Embas	Psycln	Pilots	Emneord	Sum:	Titt		Informatic	
									Db	Prov	I	D
Chen, L.	2015	1	1	0	0	0	0	2	2	1	1	0
Chen, Y.R.	2014	1	1	1	1	0	1	5	4	1	1	0
Cusack, K.	2016	1	1	1	1	1	1	6	5	1	1	0
Ehring, T.	2014	1	1	0	1	1	0	4	4	1	1	0
Erford, B. T.	2016	0	1	0	1	0	0	2	2	1	1	0
Goodson, J.	2011	0	1	0	1	1	0	3	3	1	1	0
Haagen, J. F.	2015	0	1	1	1	1	0	4	4	1	1	1
Haugen, P.T.	2012	1	1	1	1	1	0	5	5	1	1	0
Ho, M.	2012	0	1	0	1	0	0	2	2	0	1	1
Jong, K.	2014	0	1	0	1	0	0	2	2	1	1	0
Lapp, L. K.	2010	0	1	0	0	1	0	2	2	0	1	0
Lenz, A. S.	2017	0	0	0	1	0	0	1	1	1	1	0
Mello, P.	2013	0	1	1	0	0	0	2	2	0	1	0
Stergiopoulou	2011	0	1	1	1	0	1	4	3	1	1	0
Swan, S.	2017	0	1	1	1	0	0	3	3	1	1	0
Thomaes, K.	2014	1	1	1	1	1	1	6	5	1	1	0
Torchalla, I.	2017	1	1	1	1	1	0	5	5	1	1	0
Tribe, R.H.	2017	0	1	0	1	1	0	3	3	1	1	1
Watts, B. V.	2013	1	1	0	1	1	0	4	4	1	1	0
Zantvoord, J.	2013	1	1	1	1	1	0	5	5	1	1	0
Antall:		9	19	10	17	11	41		17	20	3	



Søkemetode

1 point	1 SR	50%
2 points	6 SRs	
3 points	3 SRs	
4 points	4 SRs	40%
5 points	4 SRs	
6 points	2 SR	10%

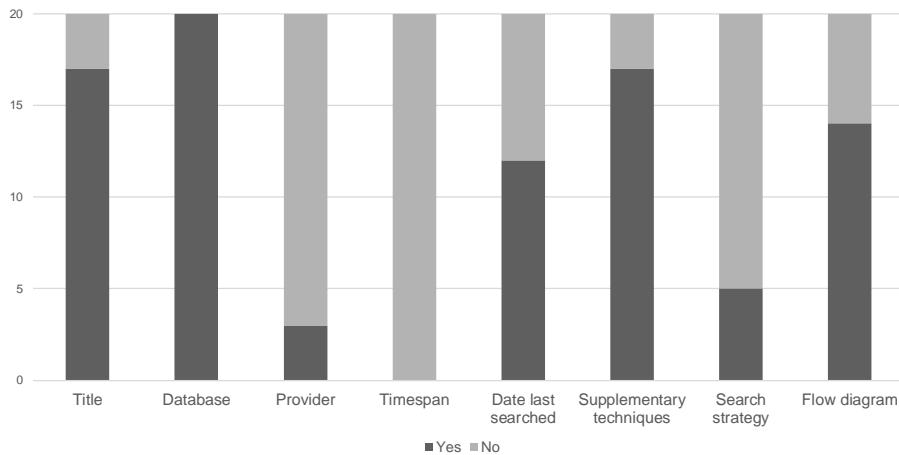
SR, systematic review. Higher score indicate better search characteristics.





Rapportering av søk PRISMA

25



Grunn til å være skeptisk?





Gode råd for søk og rapportering av søker



Kilde: riksantikvaren.no

- Identifiser eksisterende, relevante systematiske oversikter for å unngå overflødig arbeid
- Snakk med erfarte bibliotekarer
- Gjør deg kjent med sentrale ressurser på søkermetode
- Les nøye og følg PRISMA-anbefalinger

Referanser:

- Opheim, E., Andersen, P. N., Jakobsen, M., Aasen, B. & Kvaal, K. (2019). Poor quality in systematic reviews on PTSD and EMDR - An examination of search methodology and reporting. *Frontiers in Psychology*, 10(JULY). DOI: 10.3389/fpsyg.2019.01558
- Higgins, J. & Green, S. (2011). *Cochrane Handbook for Systematic Reviews of Interventions Version 5.1.0 [updated March 2011]*. Retrieved from www.handbook.cochrane.org
- Liberati, A., Altman, D. G., Tetzlaff, J., Mulrow, C., Gotzsche, P. C., Ioannidis, J. P., . . . Moher, D. (2009). The PRISMA statement for reporting systematic reviews and meta-analyses of studies that evaluate health care interventions: explanation and elaboration. *PLoS Medicine*, 6(7), e1000100. doi:10.1371/journal.pmed.1000100
- Sampson, M., McGowan, J., Lefebvre, C., Moher, D. & Grimshaw, J. (2008). PRESS: Peer Review of Electronic Search Strategies. <http://www.cadth.ca>

