Are Researchers Registering Systematic Reviews in ClinicalTrials.gov?

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BACKGROUND

ClinicalTrials.gov (CT) is an increasingly important resource for systematic reviewers attempting to identify published and unpublished clinical studies. In addition to clinical studies, however, some searches of the CT database also return systematic reviews (SRs) (Fig. 1). When I inquired about the SRs appearing in the results, the NLM Help Desk responded that “We do not recommend that systematic reviews be entered in ClinicalTrials.gov, since we only want the results of a clinical trial entered once.” However, we will not refuse them if they are entered.” I wanted to find out how many SRs are included, describe their characteristics, and suggest search strategies for those wishing to exclude them.

METHODS

Conduct a CT search for “systematic review” (see fig. 2) without limiting by field in case wishing to exclude them. I ran a search for “systematic review” (in quotes) in the advanced search > Search Terms field on July 14, 2016, and applying no other limits, downloaded 181 results for analysis from among the 220,113 total number of records in the CT database. Of the 181 records, 47 (26%) were systematic reviews (Fig. 3). All 47 were listed as Study Type: Observational. The remaining 134 records that were not SRs included a mix of Observational (21, 15.7%) and Interventional (113, 84.3%) study types.

Fig. 1. An example of a systematic review in ClinicalTrials.gov.

Supplemental Data

The results coded with systematic review status are available as a supplemental file at http://jdc.jefferson.edu/aisrpubs/45/

RESULTS

I ran a search for “systematic review” (in quotes) in the advanced search > Search Terms field on July 14, 2016, and applying no other limits, downloaded 181 results for analysis from among the 220,113 total number of records in the CT database. Of the 181 records, 47 (26%) were systematic reviews (Fig. 3). All 47 were listed as Study Type: Observational. The remaining 134 records that were not SRs included a mix of Observational (21, 15.7%) and Interventional (113, 84.3%) study types.

Fig. 2. The search was for the phrase “systematic review” in all fields.

LIMITATIONS

This study didn’t search for records titled as meta analyses or other names such as “systematic overview” that would add to the number of records violating the intention of the database that the results of a clinical trial be entered once.

CONCLUSIONS

The number of systematic reviews registered in CT is small at this time. They can be accurately avoided if you are looking for interventional studies by using the Study Type field, but not if you are looking for observational studies. Using the proposed title searching filter offers an effective way to avoid them. Librarians should advise their teams to register systematic reviews in appropriate sources such as PROSPERO (http://www.crd.york.ac.uk/PROSPERO/), but not ClinicalTrials.gov.

REFERENCES


FILTER

Title searching offers an effective way to avoid SRs: all but two true SRs had "systematic review" or "meta-analysis" in the Brief or Official Title. So in the expert search you could add the filter: NOT ("systematic review" [TITLES] OR "metaanalysis" [TITLES]). This filter has a sensitivity of 94.8%, precision of 96.9%, and specificity of 91.5%.