**Search Strategy for Pragmatic Clinical Trials in Aged**

Research strategies using Mesh Terms were applied in PubMed, Ovid/Medline, and Clinical Trials.gov research platforms about Pragmatic Clinical Trials involving elderly. The research was conducted in February and March 2024 for ClinicalTrials.gov. The search was not restricted to a specific time period. Only studies with Pragmatic Clinical Trials as their design type and older adults as their study population were included, with no limitations of language. Other research designs, populations, and duplicate documents were excluded.

**Additional material Search Strategy**

**Search Strategy in PubMed/ Ovid Medline/ Clinical Trials.gov**

**Ovid Medline**

((Pragmatic Clinical Trials as Topic or Pragmatic Clinical Trial) and (aged or "aged, 80 and over" or centenarians or nonagenarians or octogenarians)).af. not Protocol.ti. not Review.ti.

The research strategy was applied to https://ovidsp.dc2.ovid.com/, resulting in 1566 records. Duplicate references were subsequently detected and semi-automatically removed using Rayyan software (https://help.rayyan.ai/hc/en-us).

**PubMed**

(("aged"[MeSH Terms] OR "aged, 80 and over"[MeSH Terms]) AND "Pragmatic Clinical Trial"[Publication Type]) NOT ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms] OR "Pregnant Women"[MeSH Terms] OR "pregnancy"[MeSH Terms])

The research strategy was applied to https://pubmed.ncbi.nlm.nih.gov/, resulting in 740 records. Duplicate references were subsequently identified and semi-automatically removed using Rayyan software (https://help.rayyan.ai/hc/en-us).

**Clinical Trials.gov**

1. Other terms: Pragmatic Trial
2. Study Status: All studies
3. Eligibility Criteria [Sex]: All
4. Eligibility Criteria [Age]: Older adult (65+)

A research strategy was applied using the focused search tool on <https://clinicaltrials.gov/>; in the “Other terms” section, the MeSH term "Pragmatic Trial" was selected. In the “Study Status” section, the option “All Studies” was chosen. In the More Filters section and the “Eligibility Criteria” subsection, “All” options were selected o the “Sex” criterion, "Older adult (65+)" was chosen for the Age criterion. A total of 1605 records were obtained and included for subsequent examination with statistical analysis code (R version 4.3.3).

**Peer review methodology**

Finally, our systematic search yielded a total of 2306 articles. Subsequently, duplicates were removed, resulting in 1615 pragmatic clinical trials.

**Conclusion**

The final search strategy for Pragmatic Clinical Trials included 1613 articles and 1532 records for further analysis. Future studies of similar nature, we recommend updating the search to the earliest date the study commencement for reproducibility.

**Annex 1.** PRISMA 2020 flow diagram of searches of databases and registers only

**Identification of studies via databases and registers**

Records removed *before the screening*:

Duplicate records marked as ineligible by automation tools and removed (n = 693)

Records removed for other reasons, such as observational studies (n = 73)

Records identified from\*:

PubMed (n = 740)

Ovid/Medline (n = 1566)

Clinical Trials.gov (n = 1605)

**Identification**

**Screening**

Records screened (n = 3145)

**Included**

Studies included in the review (n = 1613)

Reports of included studies (n = 1532)