

<i>Detailed summary of the search strategy</i>		
Databases	Search Strategy	Records Retrieved
PubMed (MEDLINE)	("premedication" [MeSH Terms] OR "premedication" [All Fields]) AND ("pain control" [MeSH Terms] OR "pain control" [All Fields] OR "pain management" [All Fields]) AND ("endodontics" [MeSH Terms] OR "root canal therapy" [All Fields]) AND ("irreversible pulpitis" [MeSH Terms] OR "irreversible pulpitis" [All Fields]) AND ("randomized controlled trial" [Publication Type] OR "clinical trial" [Publication Type])	1777
Cochrane Library	("premedication" [MeSH Terms] OR "premedication" [Title/Abstract/Keywords]) AND ("pain control" [MeSH Terms] OR "pain management" [Title/Abstract/Keywords]) AND ("endodontics" [MeSH Terms] OR "root canal therapy" [Title/Abstract/Keywords]) AND ("irreversible pulpitis" [MeSH Terms] OR "irreversible pulpitis" [Title/Abstract/Keywords]) AND ("randomized controlled trial" [Publication Type] OR "clinical trial" [Publication Type])	79
Embase (Ovid)	('premedication' [Emtree Terms] OR 'premedication' [Title/Abstract]) AND ('pain control' [Emtree Terms] OR 'pain management' [Title/Abstract]) AND ('endodontics' [Emtree Terms] OR 'root canal therapy' [Title/Abstract]) AND ('irreversible pulpitis' [Emtree Terms] OR 'irreversible pulpitis' [Title/Abstract]) AND ('randomized controlled trial' [Publication Type] OR 'clinical trial' [Publication Type])	129
Total		1985

Table S1: Search strategy across electronic databases.

Detailed search strategy applied in PubMed, Cochrane Library, and Embase, including Boolean operators, filters, and keywords used. The figure presents the number of records retrieved from each source and documents the reproducibility of the systematic search according to PRISMA 2020 standards.