

PubMed	(((((((((Propolis"[Mesh]) OR (Bee Glue[Title/Abstract])) OR (Bee Bread[Title/Abstract])) OR (bee cement[Title/Abstract])) OR (bee resin[Title/Abstract])) OR (hive dross[Title/Abstract])) OR (propolis))) AND (((((((("Pulpotomy"[Mesh]) OR (Pulpotomies[Title/Abstract])) OR ("pulp cap"[Title/Abstract])) OR ("pulp capping"[Title/Abstract])) OR (direct pulp cap[Title/Abstract])) OR (direct pulp capping[Title/Abstract]))
Embase	('propolis'/exp OR 'propolis' OR 'propolis':ti,ab OR 'bee glue':ti,ab OR 'bee bread':ti,ab OR 'bee cement':ti,ab OR 'bee resin':ti,ab OR 'hive dross':ti,ab) AND ('pulpotomy'/exp OR 'pulpotomy' OR 'pulpotomies':ti,ab OR 'pulp cap':ti,ab OR 'dental pulp capping':ti,ab OR 'pulp capping':ti,ab OR 'direct pulp capping':ti,ab OR 'direct pulp cap':ti,ab)
Scopus	(TITLE-ABS-KEY ("propolis" OR "Bee Glue" OR "Bee Bread" OR "bee cement" OR "bee resin" OR "hive dross")) AND (TITLE-ABS-KEY ("pulpotomy" OR "pulpotomies" OR "pulp cap" OR "dental pulp capping" OR "pulp capping" OR "direct pulp capping" OR "direct pulp cap"))
Web of science	1: TS=('propolis' OR 'Bee Glue' OR 'Bee Bread' OR 'bee cement' OR 'bee resin' OR 'hive dross') 2: TS=('pulpotomy' OR 'pulpotomies' OR 'pulp cap' OR 'dental pulp capping' OR 'pulp capping' OR 'direct pulp capping' OR 'direct pulp cap') 3: #2 AND #1

Supplementary material 1. Search strategy

	Risk of Bias													Overall
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	
Goinka et al. (2023)														
Ahmad et al. (2022)														
RojaRamya et al. (2022)														
Nasri et al. (2022)														
Rasheed et al. (2021)														
Madan et al. (2020)														
Mohanty and Ramesh (2020)														
Reddy et al. (2019)														
Aghazadeh et al. (2018)														
Hugar et al. (2017)														
Alolofi et al. (2016)														
Kusum et al. (2015)														
Parolia et al. (2010)														
Elasser et al. (2025)														
D1: Was true randomization used for assignment of participants to treatment groups? D2: Was allocation to treatment groups concealed? D3: Were treatment groups similar at the baseline? D4: Were participants blind to treatment assignment? D5: Were those delivering treatment blind to treatment assignment? D6: Were outcomes assessors blind to treatment assignment? D7: Were treatment groups treated identically other than the intervention of interest? D8: Was follow up complete and if not, were differences between groups in terms of their follow up adequately described and analyzed? D9: Were participants analyzed in the groups to which they were randomized? D10: Were outcomes measured in the same way for treatment groups? D11: Were outcomes measured in a reliable way? D12: Was appropriate statistical analysis used? D13: Was the trial design appropriate, and any deviations from the standard RCT design accounted for in the conduct and analysis of the trial?														
Judgement High Unclear Low Not applicable														

Supplementary material 2. Risk of bias assessment results