

Table SI. Searching strategy of systematic review from each database

Database	Number of search results	Keywords	Search date
PubMed	6	"alopecia areata" AND (intralesional AND (steroid OR corticosteroid OR triamcinolone)) AND cryotherapy "alopecia areata"[All Fields] AND ((("intralesional"[All Fields] OR "intralesionally"[All Fields]) AND ("steroidal"[All Fields] OR "steroidals"[All Fields] OR "steroidic"[All Fields] OR "steroids"[MeSH Terms] OR "steroids"[All Fields] OR "steroid"[All Fields] OR ("adrenal cortex hormones"[MeSH Terms] OR ("adrenal"[All Fields] AND "cortex"[All Fields] AND "hormones"[All Fields]) OR "adrenal cortex hormones"[All Fields] OR "corticosteroid"[All Fields] OR "corticosteroids"[All Fields] OR "corticosteroidal"[All Fields] OR "corticosteroide"[All Fields] OR "corticosteroides"[All Fields]) OR ("triamcinolon"[All Fields] OR "triamcinolone"[MeSH Terms] OR "triamcinolone"[All Fields]))) AND ("cryotherapy"[MeSH Terms] OR "cryotherapy"[All Fields] OR "cryotherapies"[All Fields])	February 25, 2025
Web of Science	5	TS=alopecia areata AND TS= (intralesional AND (steroid OR corticosteroid OR triamcinolone)) AND TS=cryotherapy	February 25, 2025
Embase	28	('alopecia areata'/exp OR 'alopecia areata') AND intralesional AND ('steroid'/exp OR steroid OR 'corticosteroid'/exp OR corticosteroid OR 'triamcinolone'/exp OR triamcinolone) AND ('cryotherapy'/exp OR cryotherapy)	February 25, 2025
Cochrane	1	alopecia areata in Title Abstract Keyword AND intralesional AND (steroid OR corticosteroid OR triamcinolone) in Title Abstract Keyword AND cryotherapy in Title Abstract Keyword - (Word variations have been searched)	February 25, 2025

Table SII. Study quality evaluation of included studies in meta-analysis

Risk Of Bias In Non-randomized Studies of Interventions (ROBINS-I)								
	Bias due to confounding	Bias in selection of participants into the study	Bias in classification of interventions	Bias due to deviations from intended interventions	Bias due to missing data	Bias in measurement of outcomes	Bias in selection of the reported result	Overall bias
Amirnia et al, 2015	L	L	M	L	L	M	L	M
El Sayed et al, 2022	L	L	L	L	L	M	L	M
Mohammed et al, 2022	L	L	L	L	L	L	L	L
Version 2 of the Cochrane risk-of-bias tool for randomized trials (RoB 2.0)								
	Bias arising from the randomization process	Bias due to deviations from the intended interventions	Bias due to missing outcome data	Bias in measurement of the outcome	Bias in selection of the reported result	Overall bias		
Ban et al, 2014	O	+	+	O	+	O		
Sardana et al, 2022	O	+	+	O	+	O		

For ROBINS-I: N, no information; L, low risk of bias; M, moderate risk of bias; S, serious risk of bias; C, critical risk of bias

For RoB 2.0: +, low risk of bias; O, some concerns; −, high risk of bias