

Supporting information

Efficacy of topical intervention for recurrent aphthous stomatitis: A network meta-analysis

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Table S1 Search Strategy

Review question	What is the efficacy and safety of various topical interventions in patients with recurrent aphthous stomatitis (all types) in relation to each other or in comparison to placebo?
Population	<p>Clinical or histopathological examination confirms a diagnosis of recurrent aphthous ulcers, with ulcer-like lesions visible anywhere on the oral mucosa.</p> <p>Simple ulcerative lesions of any undetermined cause such as psychological, nutritional and immunological factors, rather than oral manifestations of systemic diseases such as leukoaraiosis, diabetes mellitus, etc., or specific ulcerative lesions due to trauma, radiotherapy, etc.</p> <p>The population enrolled received only local interventions or placebo during the trial and did not receive any other treatment that might alter the RAU prior to or during the trial, such as receiving systemic steroids or immunosuppressants.</p> <p>For studies in patients with multiple oral mucosal diseases, we extracted only RAS data. If this was not possible, we excluded this study.</p>
Subgroups	<p>The following factors will be considered for Subgroups if heterogeneity is present:</p> <p>Heterogeneity of single incorporated articles</p> <p>Treatment course</p> <p>Different RAS types</p> <p>Drug dose</p> <p>Forms of medication</p>
Interventions	<ul style="list-style-type: none"> • Allicin • Aloe • Amlexanox • Benzydamine • Berberine gelatin • Chitosan • Chlorhexidine • Clobetasol • Cryotherapy • Curcumin • Dexamethasone • Diosmectite • Doxycycline • Glycyrrhiza • Honey • Insulin-liposomal gel • Laser • Minocycline • N-acetylcysteine • Penicillin • Probiotics • Prostaglandin E2 • Quercetin

	<ul style="list-style-type: none"> • Silver nitrate • Sucralfate • Triamcinolone • Triester Glycerol Oxide • Zinc <p>(Note: all doses, forms and durations will be included)</p>
Comparison	<ul style="list-style-type: none"> • Placebo • Allicin • Aloe • Amlexanox • Benzydamine • Berberine gelatin • Chitosan • Chlorhexidine • Clobetasol • Cryotherapy • Curcumin • Dexamethasone • Diosmectite • Doxycycline • Glycyrrhiza • Honey • Insulin-liposomal gel • Laser • Minocycline • N-acetylcysteine • Penicillin • Probiotics • Prostaglandin E2 • Quercetin • Silver nitrate • Sucralfate • Triamcinolone • Triester Glycerol Oxide • Zinc
Outcomes	<ul style="list-style-type: none"> • Healing efficacy <p>Evaluated by healing time, the time elapsed between the start of the intervention and the healing of the ulcerated lesion.</p> <ul style="list-style-type: none"> • Effect of size reduction <p>Evaluated by the effectiveness index, $EI = \text{ulcer reduction area (mm}^2\text{)} / \text{ulcer baseline area (mm}^2\text{)}$. The cumulative reduction in ulcer size at different examination days over the duration of the trial was counted.</p> <ul style="list-style-type: none"> • Effect of symptom reduction <p>Evaluated by the effectiveness index, $EI = \text{reduction in pain score} / \text{baseline ulcer pain}$</p>

	<p>score. Individual subject's VAS score or decile scale score of pain level on different examination days. The degree of cumulative pain relief was calculated.</p> <p>VAS score: 10 cm horizontal line, marked 0 = no pain to 10 = worst pain.</p> <p>Decile scale: 0 for no pain, 10 for most pain.</p> <ul style="list-style-type: none"> • Safety outcomes <p>Adverse effect</p> <p>Hematologic values</p> <ul style="list-style-type: none"> • Relapse
Study design	RCTs
Databases	PubMed, Web of Science (WOS), Cochrane Central Register of Controlled Trials, Embase

Table S2 Final search strategy for PubMed

#ID	Topic or intervention		Query	Records
#1	Recurrent Stomatitis	Aphthous	("Stomatitis, Aphthous" [Mesh]) OR ("Oral Ulcer" [Mesh]) OR (((((((Aphth* [Title/Abstract]) OR Canker sore [Title/Abstract]) OR Oral ulcer* [Title/Abstract]) OR Mouth ulcer* [Title/Abstract]) OR Recurrent aphthous ulcer* [Title/Abstract]) OR Recurrent aphthous stomatitis [Title/Abstract]) OR Aphthous stomatitis [Title/Abstract])	9988
#2	Clobetasol		("Clobetasol" [Mesh]) OR (Clobetasol [Title/Abstract]) OR (Corticosteroid [Title/Abstract]) OR (Clobetasol Propionate [Title/Abstract])	53558
#3	Betamethasone		("Betamethasone" [Mesh]) OR ("Betamethasone Valerate" [Mesh]) OR (Betamethasone [Title/Abstract]) OR (Betasolon [Title/Abstract]) OR (Betamethasone Valerate [Title/Abstract])	9273
#4	Dexamethasone		("Dexamethasone" [Mesh]) OR (Dexamethasone [Title/Abstract]) OR (Dexamucobase [Title/Abstract])	75058
#5	Triamcinolone		("Triamcinolone" [Mesh]) OR ("Triamcinolone Acetonide" [Mesh]) OR (Triamcinolone [Title/Abstract]) OR (Triamcinolone Acetonide [Title/Abstract])	12218
#6	Minocycline		("Minocycline" [Mesh]) OR (Minocycline [Title/Abstract])	9428
#7	Doxycycline		("Doxycycline" [Mesh]) OR (Doxycycline [Title/Abstract])	18183
#8	Penicillin		("Penicillin G"[Mesh]) OR ("Penicillin"[Mesh]) (Penicillin [Title/Abstract]) OR (Penicillin G Potassium [Title/Abstract]) OR (Penicillin G [Title/Abstract])	105884
#9	Benzydamine		("Benzydamine" [Mesh]) OR (Benzydamine [Title/Abstract])	597
#10	Amlexanox		Amlexanox[Title/Abstract]	151
#11	Chlorhexidine		("Chlorhexidine" [Mesh]) OR (Chlorhexidine [Title/Abstract]) OR (Hibitane [Title/Abstract])	13254
#12	Hyaluronic Acid		("Hyaluronic Acid " [Mesh]) OR (Hyaluronic Acid [Title/Abstract])	31587
#13	Laser	CO2	("Laser Therapy"[Mesh]) OR ("Lasers"[Mesh]) OR (Low level laser therapy [Title/Abstract]) OR (Lasertherap* [Title/Abstract]) OR (LLLT* [Title/Abstract]) OR (Laser* [Title/Abstract])	308558
		Nd:YAG		
		diode		
#14	Sodium lauryl sulfate		(Sodium lauryl sulfate dentifrice[Title/Abstract]) OR (Sodium lauryl sulfate toothpaste[Title/Abstract])	104

#15	Probiotics	("probiotics" [Mesh]) OR ("Lactobacillales" [Mesh]) OR ("Lactococcus" [Mesh]) OR ("Bifidobacterium" [Mesh]) OR (probiotic* [Title/Abstract]) OR (lactobacilli [Title/Abstract]) OR (Lactobacillales [Title/Abstract]) OR (Lactococcus [Title/Abstract]) OR (Bifidobacteri* [Title/Abstract])	166173
#16	Insulin-liposomal gel	Insulin-liposomal gel [Title/Abstract]	1
#17	Salicept	Salicept [Title/Abstract]	4
#18	HybenX	HybenX [Title/Abstract]	17
#19	Cryotherapy	("Cryotherapy" [Mesh]) OR (Cryotherapy [Title/Abstract])	31784
#20	Prostaglandin E2	("Dinoprostone" [Mesh]) OR (Prostaglandin E2 [Title/Abstract])	37890
#21	Curcumin	("Curcumin" [Mesh]) OR (Curcumin [Title/Abstract])	17505
#22	Glycyrrhiza	("Glycyrrhiza" [Mesh]) OR (Glycyrrhiza [Title/Abstract])	3809
#23	Quercetin	("Quercetin" [Mesh]) OR (Quercetin [Title/Abstract])	21546
#24	Chitosan	("Chitosan" [Mesh]) OR (Chitosan [Title/Abstract])	33883
#25	Aloe	("Aloe" [Mesh]) OR ("acemannan" [Supplementary Concept]) OR (Aloe [Title/Abstract]) OR (acemannan [Title/Abstract])	3217
#26	Honey	("Honey" [Mesh]) OR (Honey [Title/Abstract])	12937
#27	lavender oil	("lavender oil" [Supplementary Concept]) OR (lavender oil [Title/Abstract])	442
#28	Berberine gelatin	Berberine gelatin [Title/Abstract]	1
#29	Diosmectite	("Smectite" [Supplementary Concept]) OR (Diosmectite [Title/Abstract])	309
#30	Allicin	("allicin" [Supplementary Concept]) OR (Allicin [Title/Abstract])	900
#31	N-acetylcysteine	("Acetylcysteine" [Mesh]) OR (N-acetylcysteine [Title/Abstract])	19573
#32	Sucralfate	("Sucralfate" [Mesh]) OR (Sucralfate [Title/Abstract])	2082
#33	Triester Glycerol Oxide	Triester Glycerol Oxide [Title/Abstract]	5
#34	Cautery	Silver nitrate	20040
		Debacterol	
		("Cautery" [Mesh]) OR (Silver nitrate [Title/Abstract]) OR (Debacterol [Title/Abstract]) OR (Cautery [Title/Abstract])	
#35	Zinc	("Zinc" [Mesh]) OR (Zinc [Title/Abstract])	146109
#36	Final query	#1 AND (#2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14	902

		OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36)	
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Table S3 Final search strategy for Web of Science

#ID	Topic or intervention		Query	Records
#1	Recurrent Aphthous Stomatitis		(TS=(Aphth*) OR TS=(Canker sore) OR TS=(Oral ulcer*) OR TS=(Mouth ulcer*) OR TS=(Recurrent aphthous ulcer*) OR TS=(Recurrent aphthous stomatitis) OR TS=(Aphthous stomatitis))	47159
#2	Clobetasol		(TS=(Clobetasol) OR TS=(Corticosteroid) OR TS=(Clobetasol Propionate))	163969
#3	Betamethasone		(TS=(Betamethasone) OR TS=(Betasolon) OR TS=(Betamethasone Valerate))	10781
#4	Dexamethasone		(TS=(Dexamethasone) OR TS=(Dexamucobase))	112334
#5	Triamcinolone		(TS=(Triamcinolone) OR TS=(Triamcinolone Acetonide))	18064
#6	Minocycline		(TS=(Minocycline))	13720
#7	Doxycycline		(TS=(Doxycycline))	28374
#8	Penicillin		(TS=(Penicillin) OR TS=(Penicillin G Potassium) OR TS=(Penicillin G))	143392
#9	Benzydamine		(TS=(Benzydamine))	803
#10	Amlexanox		(TS=(Amlexanox))	242
#11	Chlorhexidine		(TS=(Chlorhexidine) OR TS=(Hibitane))	18711
#12	Hyaluronic Acid		(TS=(Hyaluronic Acid))	46592
#13	Laser	CO2 Nd:YAG diode	(TS=(Laser Therapy) OR TS=(Low level laser therapy) OR TS=(Lasertherap*) OR TS=(LLLT*) OR TS=(Laser*))	924745
#14	Sodium lauryl sulfate		(TS=(Sodium lauryl sulfate dentifrice) OR TS=(Sodium lauryl sulfate toothpaste))	161
#15	Probiotics		(TS=(probiotic*) OR TS=(lactobacilli) OR TS=(Lactobacillales) OR TS=(Lactococcus) OR TS=(Bifidobacteri*))	187354
#16	Insulin-liposomal gel		(TS=(Insulin-liposomal gel))	1
#17	Salicept		(TS=(Salicept))	11
#18	HybenX		(TS=(HybenX))	19
#19	Cryotherapy		(TS=(Cryotherapy))	15196
#20	Prostaglandin E2		(TS=(Prostaglandin E2) OR TS=(Dinoprostone))	51029
#21	Curcumin		(TS=(Curcumin))	30010
#22	Glycyrrhiza		(TS=(Glycyrrhiza))	7474
#23	Quercetin		(TS=(Quercetin))	40563
#24	Chitosan		(TS=(Chitosan))	89698
#25	Aloe		(TS=(Aloe) OR TS=(acemannan))	7631
#26	Honey		(TS=(Honey))	43877
#27	lavender oil		(TS=(lavender oil))	2124
#28	Berberine gelatin		(TS=(Berberine gelatin))	27
#29	Diosmectite		(TS=(Diosmectite))	70

#30	Allicin		(TS=(Allicin))	1998
#31	N-acetylcysteine		(TS=(N-acetylcysteine))	21589
#32	Sucralfate		(TS=(Sucralfate))	2962
#33	Triester Glycerol Oxide		(TS=(Triester Glycerol Oxide))	10
#34	Cautery	Silver nitrate Debacterol	(TS=(Cautery) OR TS=(Silver nitrate) OR TS=(Debacterol))	21048
#35	Zinc		(TS=(Zinc))	509430
#36	Final query		#1 AND (#2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35)	6303

Table S4 Final search strategy for Cochrane Central Register of Controlled Trials

#ID	Topic or intervention	Query	Records
#1	Recurrent Aphthous Stomatitis	MeSH descriptor: [Stomatitis, Aphthous] explode all trees	242
#2		MeSH descriptor: [Oral Ulcer] explode all trees	65
#3		(Aphth*):ti,ab,kw	774
#4		(Canker sore):ti,ab,kw	16
#5		(Oral ulcer*):ti,ab,kw	4827
#6		(Mouth ulcer*):ti,ab,kw	929
#7		(Recurrent aphthous ulcer*):ti,ab,kw	342
#8		(Recurrent aphthous stomatitis):ti,ab,kw	364
#9		(Aphthous stomatitis):ti,ab,kw	555
#10		#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9	5645
#11	Clobetasol	MeSH descriptor: [Clobetasol] explode all trees	382
#12		(Clobetasol):ti,ab,kw OR (Corticosteroid):ti,ab,kw OR (Clobetasol Propionate):ti,ab,kw	23575
#13		#11 OR #12	23575
#14	Betamethasone	MeSH descriptor: [Betamethasone] explode all trees	1492
#15		MeSH descriptor: [Betamethasone Valerate] explode all trees	352
#16		(Betamethasone):ti,ab,kw OR (Betasolon):ti,ab,kw OR (Betamethasone Valerate):ti,ab,kw	2570
#17		#14 OR #15 OR #16	2846
#18	Dexamethasone	MeSH descriptor: [Dexamethasone] explode all trees	4794
#19		(Dexamethasone):ti,ab,kw OR (Dexamucobase):ti,ab,kw	12687
#20		#18 OR #19	12708
#21	Triamcinolone	MeSH descriptor: [Triamcinolone] explode all trees	1448
#22		MeSH descriptor: [Triamcinolone Acetonide] explode all trees	1138
#23		(Triamcinolone):ti,ab,kw OR (Triamcinolone Acetonide):ti,ab,kw	3320
#24		#21 OR #22 OR #23	3320
#25	Minocycline	MeSH descriptor: [Minocycline] explode all trees	544
#26		(Minocycline):ti,ab,kw	1126
#27		#25 OR #26	1126
#28	Doxycycline	MeSH descriptor: [Doxycycline] explode all trees	1089
#29		(Doxycycline):ti,ab,kw	2223
#30		#28 OR #29	2223
#31	Penicillin	MeSH descriptor: [Penicillin G] explode all trees	4719

#32			(Penicillin):ti,ab,kw OR (Penicillin G Potassium):ti,ab,kw OR (penicillin G):ti,ab,kw	3529
#33			#31 OR #32	7005
#34	Benzydamine		MeSH descriptor: [Benzydamine] explode all trees	104
#35			(Benzydamine):ti,ab,kw	258
#36			#34 OR #35	258
#37	Amlexanox		(Amlexanox):ti,ab,kw	27
#38	Chlorhexidine		MeSH descriptor: [Chlorhexidine] explode all trees	2296
#39			(Chlorhexidine):ti,ab,kw OR (Hibitane):ti,ab,kw	5022
#40			#38 OR #39	5022
#41	Hyaluronic Acid		MeSH descriptor: [Hyaluronic Acid] explode all trees	1722
#42			(Hyaluronic Acid):ti,ab,kw	3421
#43			#41 OR #42	3421
#44	Laser	CO2、Nd:YAG、diode	MeSH descriptor: [Laser Therapy] explode all trees	4309
#45			MeSH descriptor: [Lasers] explode all trees	2308
#46			(Low level laser therapy):ti,ab,kw OR (Lasertherap*):ti,ab,kw OR (LLLT*):ti,ab,kw OR (Laser*):ti,ab,kw	20404
#47			#44 OR #45 OR #46	20509
#48	Sodium lauryl sulfate		(Sodium lauryl sulfate dentifrice):ti,ab,kw OR (Sodium lauryl sulfate toothpaste):ti,ab,kw	52
#49	Probiotics		MeSH descriptor: [Probiotics] explode all trees	2208
#50			MeSH descriptor: [Lactobacillales] explode all trees	3480
#51			MeSH descriptor: [Lactococcus] explode all trees	16
#52			MeSH descriptor: [Bifidobacterium] explode all trees	759
#53			(probiotic*):ti,ab,kw OR (lactobacilli):ti,ab,kw OR (Lactobacillales):ti,ab,kw OR (Lactococcus):ti,ab,kw OR (Bifidobacteri*):ti,ab,kw	9131
#54			#49 OR #50 OR #51 OR #52 OR #53	11104
#55	Insulin-liposomal gel		(Insulin-liposomal gel):ti,ab,kw	1
#56	Salicept		(Salicept):ti,ab,kw	2
#57	HybenX		(HybenX):ti,ab,kw	9
#58	Cryotherapy		MeSH descriptor: [Cryotherapy] explode all trees	1669
#59			(Cryotherapy):ti,ab,kw	2291
#60			#58 OR #59	3231
#61	Prostaglandin E2		MeSH descriptor: [Dinoprostone] explode all trees	1164
#62			(Prostaglandin E2):ti,ab,kw	1994
#63			#61 OR #62	2495
#64	Curcumin		MeSH descriptor: [Curcumin] explode all trees	437
#65			(Curcumin):ti,ab,kw	1277

#66			#64 OR #65	1277
#67	Glycyrrhiza		MeSH descriptor: [Glycyrrhiza] explode all trees	105
#68			(Glycyrrhiza):ti,ab,kw	351
#69			#67 OR #68	351
#70	Quercetin		MeSH descriptor: [Quercetin] explode all trees	205
#71			(Quercetin):ti,ab,kw	518
#72			#70 OR #71	518
#73	Chitosan		MeSH descriptor: [Quercetin] explode all trees	205
#74			(Chitosan):ti,ab,kw	480
#75			#73 OR #74	685
#76	Aloe		MeSH descriptor: [Aloe] explode all trees	681
#77			(Aloe):ti,ab,kw OR (acemannan):ti,ab,kw	81
#78			#76 OR #77	681
#79	Honey		MeSH descriptor: [Honey] explode all trees	163
#80			(honey):ti,ab,kw	1129
#81			#79 OR #80	1129
#82	Lavender oil		(lavender oil):ti,ab,kw	524
#83	Berberine gelatin		(Berberine gelatin):ti,ab,kw	1
#84	Diosmectite		(Diosmectite):ti,ab,kw	30
#85	Allicin		(Allicin):ti,ab,kw	50
#86	N-acetylcysteine		MeSH descriptor: [Acetylcysteine] explode all trees	1155
#87			(N-acetylcysteine):ti,ab,kw	1804
#88			#86 OR #87	2144
#89	Sucralfate		MeSH descriptor: [Sucralfate] explode all trees	398
#90			(Sucralfate):ti,ab,kw	798
#91			#89 OR #90	798
#92	Triester Glycerol Oxide		(Triester Glycerol Oxide):ti,ab,kw	6
#93	Cautery	Silver nitrate、 Debacterol	MeSH descriptor: [Cautery] explode all trees	805
#94			(Cautery):ti,ab,kw OR (Silver nitrate):ti,ab,kw OR (Debacterol):ti,ab,kw	627
#95			#93 OR #94	1309
#96	Zinc		MeSH descriptor: [Zinc] explode all trees	1677
#97			(Zinc):ti,ab,kw	8083
#98			#96 OR #97	8083
#99	Final query		#10 AND (#13 OR #17 OR #20 OR #24 OR #27 OR #30 OR #33 OR #36 OR #37 OR #40 OR #43 OR #47 OR #48 OR #54 OR #55 OR # 56 OR #57 OR #60 OR #63 OR #66 OR #69 OR #72 OR #75 OR #78 OR #81 OR #82 OR #83 OR #84 OR #85 OR #88 OR #91 OR #92 OR #95 OR #98)	1560
	Cochrane Reviews			69
	Trials			1489

Table S5 Final search strategy for Embase

#ID	Topic or intervention	Query	Records
#1	Recurrent Aphthous	'mouth ulcer'/exp OR 'aphthous stomatitis'/exp	19837
#2	Stomatitis	aphth*:ti,ab,kw OR 'canker sore':ti,ab,kw OR 'oral ulcer*':ti,ab,kw OR 'mouth ulcer*':ti,ab,kw OR 'recurrent aphthous ulcer*':ti,ab,kw OR 'recurrent aphthous stomatitis':ti,ab,kw OR 'aphthous stomatitis':ti,ab,kw	11455
#3		#1 OR #2	23211
#4	Clobetasol	'clobetasol'/exp	3164
#5		(Clobetasol):ti,ab,kw OR (Corticosteroid):ti,ab,kw OR (Clobetasol Propionate):ti,ab,kw	78877
#6		#4 AND #5	81186
#7	Betamethasone	'betamethasone'/exp OR 'betamethasone valerate'/exp	21527
#8		betamethasone:ti,ab,kw OR betasolon:ti,ab,kw OR 'betamethasone valerate':ti,ab,kw	7514
#9		#7 OR #8	23136
#10	Dexamethasone	'dexamethasone'/exp	164002
#11		dexamethasone:ti,ab,kw OR dexamucobase:ti,ab,kw	83821
#12		#10 OR #11	175940
#13	Triamcinolone	'triamcinolone'/exp OR 'triamcinolone acetonide'/exp	30533
#14		triamcinolone:ti,ab,kw OR 'triamcinolone acetonide':ti,ab,kw	11046
#15		#13 OR #14	31894
#16	Minocycline	'minocycline'/exp	25639
#17		minocycline:ti,ab,kw	9918
#18		#16 OR #17	26613
#19	Doxycycline	'doxycycline'/exp	57207
#20		doxycycline:ti,ab,kw	21704
#21		#19 OR #20	59886
#22	Penicillin	'penicillin g'/exp	83154
#23		penicillin:ti,ab,kw OR 'penicillin g potassium':ti,ab,kw OR 'penicillin g':ti,ab,kw	62134
#24		#22 OR #23	121598
#25	Benzydamine	'benzydamine'/exp	1564
#26		benzydamine:ti,ab,kw	707
#27		#25 OR #26	1710
#28	Amlexanox	amlexanox:ti,ab,kw	211
#29	Chlorhexidine	'chlorhexidine'/exp	18967
#30		chlorhexidine:ti,ab,kw OR hibitane:ti,ab,kw	13927

#31			#29 OR #30	23175
#32	Hyaluronic Acid		'hyaluronic acid'/exp	46079
#33			'hyaluronic acid':ti,ab,kw	26672
#34			#32 OR #33	50728
#35	Laser	CO2、 Nd:YAG、 diode	'low level laser therapy'/exp OR 'laser'/exp	172779
#36			'low level laser therapy':ti,ab,kw OR lasertherap*:ti,ab,kw OR lllt*:ti,ab,kw OR laser*:ti,ab,kw	304449
#37			#35 OR #36	335329
#38	Sodium lauryl sulfate		(Sodium lauryl sulfate dentifrice):ti,ab,kw OR (Sodium lauryl sulfate toothpaste):ti,ab,kw	0
#39	Probiotics		'probiotic agent'/exp OR 'lactobacillales'/exp OR 'lactococcus'/exp OR 'bifidobacterium'/exp	272586
#40			probiotic*:ti,ab,kw OR lactobacilli:ti,ab,kw OR lactobacillales:ti,ab,kw OR lactococcus:ti,ab,kw OR bifidobacteri*:ti,ab,kw	59391
#41			#39 OR #40	279556
#42	Insulin-liposomal gel		'insulin-liposomal gel':ti,ab,kw	1
#43	Salicept		salicept:ti,ab,kw	6
#44	HybenX		hybenx:ti,ab,kw	13
#45	Cryotherapy		'cryotherapy'/exp	37910
#46			cryotherapy:ti,ab,kw	11654
#47			#45 OR #46	39784
#48	Prostaglandin E2		'prostaglandin e2'/exp	57910
#49			'prostaglandin e2':ti,ab,kw	10531
#50			#48 OR #49	60453
#51	Curcumin		'curcumin'/exp	28319
#52			curcumin:ti,ab,kw	21431
#53			#51 OR #52	29950
#54	Glycyrrhiza		'glycyrrhiza'/exp	6231
#55			glycyrrhiza:ti,ab,kw	2858
#56			#54 OR #55	7108
#57	Quercetin		'quercetin'/exp	34523
#58			quercetin:ti,ab,kw	25917
#59			#57 OR #58	40873
#60	Chitosan		'chitosan'/exp	36676
#61			chitosan:ti,ab,kw	39460
#62			#60 OR #61	44767
#63	Aloe		'aloe'/exp OR 'acemannan'/exp	4031
#64			aloe:ti,ab,kw OR acemannan:ti,ab,kw	4626
#65			#63 OR #64	5954
#66	Honey		'honey'/exp	8250
#67			honey:ti,ab,kw	14894

#68			#66 OR #67	16060
#69	Lavender oil		'lavender oil'/exp	1259
#70			'lavender oil':ti,ab,kw	456
#71			#69 OR #70	1337
#72	Berberine gelatin		'berberine gelatin':ti,ab,kw	1
#73	Diosmectite		'diosmectite'/exp	44
#74			diosmectite:ti,ab,kw	53
#75			#73 OR #74	76
#76	Allicin		'allicin'/exp	1573
#77			allicin:ti,ab,kw	1144
#78			#76 OR #77	1755
#79	N-acetylcysteine		'acetylcysteine'/exp	38564
#80			'n acetylcysteine':ti,ab,kw	15862
#81			#79 OR #80	40501
#82	Sucralfate		'sucralfate'/exp	7121
#83			sucralfate:ti,ab,kw	2542
#84			#82 OR #83	7373
#85	Triester Glycerol Oxide		'triester glycerol oxide':ti,ab,kw	9
#86	Cautery	Silver nitrate、 Debacterol	'cauterization'/exp	15544
#87			cautery:ti,ab,kw OR 'silver nitrate':ti,ab,kw OR debacterol:ti,ab,kw	9652
#88			#86 OR #87	22264
#89	Zinc		'zinc'/exp	125700
#90			zinc:ti,ab,kw	148781
#91			#89 OR #90	206697
#92	Final query		#6 OR #9 OR #12 OR #15 OR #18 OR #21 OR #24 OR #27 OR #28 OR #31 OR #34 OR #37 OR #38 OR #41 OR #42 OR #43 OR #44 OR #47 OR #50 OR #53 OR #56 OR #59 OR #62 OR #65 OR #68 OR #71 OR #72 OR #75 OR #78 OR #81 OR #84 OR #85 OR #88 OR #91	1604834
#93			#3 AND #92	3268

Table S6 Characteristics of included studies

Author Year	Country	Type of study	Type of RAS	Patients			Comparison	
				Male/Female	Age		Intervention (N)	Treatment Course
Huo 2021	China	RCT	minor aphthous ulcer	8/17	Under 40:16	Above 40:9	diode laser 810 nm (25)	once daily for continuous 3 days
				9/17	Under 40:13	Above 40:13	triamcinolone acetonide 0.1% (26)	three times a day until the lesion was healed
Aggour (adult) 2021	Egypt	RCT	minor RAS	11/19	28.82±8.44		ChocBalls (L. acidophilus containing lozenges) (30)	melt in the mouth slowly twice daily for 5 days
				10/20	29.38±9.06		Oracure oral gel (30)	melt in the mouth slowly twice daily for 5 days
Aggour (child) 2021	Egypt	RCT	minor RAS	12/18	6.82±2.44		ChocBalls (L. acidophilus containing lozenges) (30)	melt in the mouth slowly twice daily for 5 days
				14/16	7.18±1.96		Oracure oral gel (30)	melt in the mouth slowly twice daily for 5 days
Shi 2020	China	RCT	NA	8/12	30.5±26.6		aloe vera fermentation gel (20)	apply a layer of gel on the surface of the ulcer every day after each meal (three times each day) until the ulcer disappeared
				4/11	26.07±56.44		chitosan gel (15)	apply a layer of gel on the surface of the ulcer every day after each meal (three times each day) until the ulcer disappeared
Kavita 2020	India	RCT	NA	NA	18-48		0.1% topical triamcinolone acetonide (30)	apply paste on the ulcers three to four times per day for a minimum of 10 min
							5% topical amlexanox (30)	apply paste on the ulcers three to four times per day for a minimum of 10 min
Shao 2020	China	RCT	NA	15/19	31.62±8.45		film containing chitosan (34)	twice a day (after breakfast and after dinner). The lasting time of the film is about 1 h. Avoid drinking or eating for 1 h after using the film
				17/15	28.72±6.23		polyvinyl alcohol film (32)	twice a day (after breakfast and after dinner). The lasting time of the film is about 1 h. Avoid drinking or eating for 2 h after using the film

Pedersen	Denmark	RCT	minor or major	2/8	22.7 (18-28)	test lozenges contained a mix of two probiotic strains, Lactobacillus reuteri DSM17938 and ATCC PTA 5289 (10)	take two lozenges per day (morning and evening) for 90 days
2020				5/5	24.8 (22-30)	placebo lozenges without bacteria (10)	take two lozenges per day (morning and evening) for 90 days
Ghorbani	Iran	RCT	minor aphthous ulcers	10/13	38.66±21.60	mucoadhesive tablet with zinc sulfate (23)	3 times a day. The duration of the intervention was 7 days
2020				9/14	41.28±24.37	placebo without zinc sulfate (23)	3 times a day. The duration of the intervention was 7 days
Ibrahim	Egypt	RCT	NA	6/14	36.60±11.50	Kenalog in Orabase contained triamcinolone acetonide (20)	two times per day, once in the morning and the other at bed time, after meals for 1 or 2 weeks according to patient's clinical response
2020				8/12	35.10±13.00	lactic acid 5% mouth wash (20)	three times daily before meals and leave the solution in their mouth for 3-5 minutes, then spit it. They used the mouth wash for 1-2 weeks according to patient's clinical response
Kia	Iran	RCT	NA	20/9	43.72±9.62	5% curcumin (29)	three times a day for 10 days
2020				16/13	45.05±8.90	0.1% triamcinolone (29)	three times a day for 10 days
Owlia	Iran	RCT	acute-onset aphthae with diameter ≥5 mm	12/13	29.92 (15-45)	Penicillin (25)	four times a day for a week
2020				14/11	31.32 (15-45)	placebo (25)	four times a day for a week
Seyyedi	Iran	RCT	Minor aphthous stomatitis	2/13	34.54±14.93	pulsed carbon dioxide laser (5)	NA
2020						continuous carbon dioxide laser (5)	NA
						0.1% triamcinolone acetonide (5)	NA
Raman	India	RCT	minor aphthous ulcer	11/19	21.3	curcumin (30)	three times daily until your pain completely

2020				8/22	21.6	triamcinolone acetone (30)	subsidies three times daily until your pain completely subsidies
Bardellini	Italia	RCT	MIRAS	12/18	8.9±2.2	diode laser (30)	Laser therapy was administered on day 1 (T0) for three consecutive days
2020				11/19	8.4±2.1	Sham treatment (30)	Laser therapy was administered on day 1 (T0) for three consecutive days
Nirmala	India	RCT	NA	NA	NA	Bacillus Clausii probiotic for local application (20)	twice daily for 1 week
2019						triamcinolone paste for local application (20)	twice daily
Soliman	Egypt	RCT	MIRAS	6/4	30.1±6.9	diode laser treatment (10)	performed in the first visit only
2019				7/3	28.1±5.8	placebo (10)	rinse a diluted sodium bicarbonate oral 4 times/day
Tavangar	Iran	RCT	minor RAS	24/36	18-50	triamcinolone muco-adhesive paste (20)	three times a day, until the ulcer healed completely
2019						Placebo (20)	three times a day, until the ulcer healed completely
Halboub	Saudi Arabia	RCT	Minor:51 Major:7	16/22	30.13±16.62	N-acetyl cysteine (NAC) (200 mg dissolved in water, n = 38)	mouthwashes for 30 seconds
2019				9/11	25.50±6.86	0.12% chlorhexidine digluconate (CHX, n = 20)	mouthwashes for 30 seconds
El-Wakeel	Egypt	RCT	minor aphthous ulcers	19/21	28.9	insulin-liposomal gel (40)	once daily for 6 days
2019				20/20		placebo gel (40)	once daily for 6 days
Rahmani	Iran	RCT	minor recurrent aphthous stomatitis	8/12	35.15±9.8	0.5% Chitosan mouthwash (20)	keep 5 cc mouthwash for 4 minutes in the mouth and then spit it out 3 times a day after each meal
2018						0.5% Triamcinolone mouthwash (20)	keep 5 cc mouthwash for 4 minutes in the mouth and then spit it out 3 times a day after each meal

Sharma	India	RCT	minor ulcers	aphthous	NA	26.5	0.1%Triamcinolone acetonide (10)	4 times a day, preferably following oral hygiene after breakfast, lunch, dinner and at bedtime
2018						26.7	20% Benzocaine gel (10)	4 times a day, preferably following oral hygiene after breakfast, lunch, dinner and at bedtime
						28.7	100 mg Doxycycline hyclate (10)	The powdered doxycycline hyclate was mixed with denture adhesive and normal saline with 20:2:1 ratio and was directly placed over the ulcer using a plastic instrument
						28.4	placebo (10)	4 times a day, preferably following oral hygiene after breakfast, lunch, dinner and at bedtime
Ofluoglu	Turkey	RCT	NA		78/82	38.76±13.03	TA pomade contains 0.1% triamcinolon acetonide (53)	rinse their mouth with tap water prior to the administration of the agent and apply the agent to the ulcer 4 times per day (after meals and before bed time) for 7 days
2017							TGO gel contains 92.67% triester glycerol oxide (56)	rinse their mouth with tap water prior to the administration of the agent and apply the agent to the ulcer 4 times per day (after meals and before bed time) for 7 days
							placebo gel (51)	rinse their mouth with tap water prior to the administration of the agent and apply the agent to the ulcer 4 times per day (after meals and before bed time) for 7 days
Zeini	Egypt	RCT	minor RAS		8/6	34.6	CO2 laser (14)	single session treatment
2017					4/6	30.2	placebo (10)	sham laser
Rodríguez-Archilla	Spain	RCT	minor		8/17	33±11	cauterization with silver nitrate (25)	single treatment

2017					8/17	31±14	propolis (25)		Spray 3 times a day and avoid application after eating or drinking
					11/14	30±11	placebo (25)		Spray 3 times a day and avoid application after eating or drinking
Pandya	India	RCT	minor aphthous ulcers	14/6	25.1±13.79	a gel containing approximately 2% quercetin (20)		applied topically on the ulcers TID for total of 7 days and were restrained from eating, drinking, or rinsing the mouth for 30 minutes after each application	
2017					12/8	27±13.29	0.15% benzydamine hydrochloride mouthwash (20)		rinsed for 30 seconds and then expelled out, approximately 15 minutes before meals TID for 7 days
Yilmaz	Turkey	RCT	minor RAS	24/16	26±9.2	Er,Cr:YSGG laser (40)		only at the first visit	
2017							placebo (40)		only at the first visit
Nasry	Egypt	RCT	NA	23/37	28.5	herbal combination of Acacia nilotica and Licorice (15)		apply the medication on the lesion q.i.d. after drying it with a small sterile cotton pad and refrain from eating at least for 30 min after the drug application	
2016							Amlexanox 5% (15)		apply the medication on the lesion q.i.d. after drying it with a small sterile cotton pad and refrain from eating at least for 30 min after the drug application
							diode laser (15)		single treatment, 2nd or a 3rd laser pass was occasionally needed to decrease the pain
							placebo adhesive tablet (15)		apply the medication on the lesion q.i.d. after drying it with a small sterile cotton pad and refrain from eating at least for 30 min after the

								drug application
Abbasi	Iran	RCT	minor ulcers	aphthous	18/22	36.2±3.36	Adcortyl 0.1% (20)	four times daily for 7 days
2016							5% Amlexanox (20)	four times daily for 7 days
Andishe Tadbir	Iran	RCT	minor stomata	aphthous	5/10	28.93±7.29	placebo (Orabase alone) (15)	four times a day, after eating and performing oral hygiene and to continue till complete resolution
2015					9/5	30.86±4.79	triamcinolone in Orabase (14)	four times a day, after eating and performing oral hygiene and to continue till complete resolution
Raeesi	Iran	RCT	major excluded	ulcer were	2/18	26.8	paste containing 5% of licorice extract (20)	Three times after meal and one time before sleeping for 5 days
2015					4/16	24.45	paste without licorice extract (20)	Three times after meal and one time before sleeping for 5 days
Aggarwal	India	RCT	NA		18/12	NA	diode laser (30)	single treatment
2014							Sham treatment (30)	single treatment
Mansour	Saudi Arabia	RCT	minor RAS		38/52	31.7±8.4	mucoadhesive gel with aloe vera as active ingredient (30)	apply the drug to the ulcer four times a day (after meals and before bedtime) for 5 days using finger or cotton tip applicator and to refrain from eating and drinking for 30 min after application
2014							plain mucoadhesive gel (placebo) (30)	apply the drug to the ulcer four times a day (after meals and before bedtime) for 5 days using finger or cotton tip applicator and to refrain from eating and drinking for 30 min after application
Deshmukh	India	RCT	minor RAS		31/29	32.51±11.80	Curcumin gel (30)	apply the gel three times a day on each ulcer after meals and not to consume food or water for half an hour after application of the gel
2014							Triamcinolone Acetonide gel (30)	apply the gel three times a day on each ulcer

								after meals and not to consume food or water for half an hour after application of the gel
El-Haddad	Kingdom of Saudi Arabia	RCT	minor RAS	54/126	<20y: 7 20-29y: 41 ≥30y: 19	topical commercial honey (67)	three times a day (after meals) for 8 days	
2014					<20y: 6 20-29y: 21 ≥30y: 30	0.1% triamcinolone acetonide (57)	three times a day (after meals) for 8 days	
					<20y: 8 20-29y: 31 ≥30y: 17	Orabase (56)	three times a day (after meals) for 8 days	
Albrektson	Sweden	RCT	minor RAS	5/15	22.5±16.7	low-level laser therapy (LLLT) (20)	3 occasions, with a 1-day interval.	
2014				11/9	27.5±25.0	Placebo without any laser power (20)	3 occasions, with a 1-day interval.	
Soylu	Turkey	RCT	NA	19/16	25.1 15-40	Silver nitrate sticks (35)	r nitrate stick was gently held over the ulcer for a few seconds until the lesion turned to white, after the procedure, the oral cavity was rinsed with water for 5 min.	
2014				30/17	23.5 16-35	placebo sticks (30)	the empty sticks were held over the ulcer, after the procedure, the oral cavity was rinsed with water for 5 min.	
Soylu and Okuyucu	Turkey	RCT	recurrent aphthous ulcers less than 1 cm	17/18	38.31±5.40	Sucralfate suspension (35)	4 times a day 5 mL as an oral rinse for 1 to 2 minutes after routine mouth care and before sleep for one week	
2014				19/16	38.97±5.14	chlorhexidine oral rinse (35)	4 times a day as an oral rinse for 1 to 2 minutes after routine mouth care and before sleep for one week	

Bhat 2013	India	RCT	less than 5 mm	37/13 26/14	27	5% Lexanox oral paste (50) placebo paste (50)	4 times a day, squeeze out approximately ¼ inch (0.5 cm) of the paste from the tube on a clean fingertip and apply to the site of the ulcer 4 times a day, squeeze out approximately ¼ inch (0.5 cm) of the paste from the tube on a clean fingertip and apply to the site of the ulcer
Bhalang 2013	Thailand	RCT	MIRAU	NA	NA	0.1% triamcinolone acetonide (60) 0.5% acemannan extracted from Aloe vera (60) placebo (60)	3 times/day for 7 days 3 times/day for 7 days 3 times/day for 7 days
Halim 2013	Malaysia	RCT	size < 10 mm	NA	NA	turmeric (10) triamcinolone (10)	twice a day for five consecutive days twice a day for five consecutive days
Jiang and Yang 2013	China	RCT	MiRAS	11/24 11/19	33.03±3.28 34.50±4.85	Diosmectite paste (35) placebo paste (30)	apply the paste to the appointed ulcer 4 times per day (after meals and before bedtime) for 5 days (day 1 to day 5) apply the paste to the appointed ulcer 4 times per day (after meals and before bedtime) for 5 days (day 1 to day 5)
Jiang and Zhu 2013	China	RCT	MiRAS	14/28 10/32	30.86±7.53 31.19±6.00	gelatin containing berberine (42) vehicle (42)	4 times per day for 5 days 4 times per day for 5 days
Prasad 2013	India	RCT	miRAU	NA	27.48±6.82	CO2 laser (25) placebo (25)	single single
Vijayabala 2013	India	RCT	minor RAS	30/20	25.14 16-65	powdered doxycycline hyclate tablet topically whereas (25) powdered placebo tablet (25)	A single application of the medicament or placebo was done during the patient's initial visit A single application of the medicament or placebo was done during the patient's initial visit
Sattayut	Thailand	RCT	minor RAS	NA	21 19-23	CO2 laser (7)	single, 5 seconds

2013					23 18-39	sham laser (7)	single, 5 seconds
Jiang	China	RCT	10 mm- 2 mm	36/62	37	5 mg allicin adhesive tablets (48)	apply 1 adhesive tablet to the appointed ulcer 4 times a day (after meals and before bedtime) for 5 days
2012						vehicle only (48)	apply 1 adhesive tablet to the appointed ulcer 4 times a day (after meals and before bedtime) for 5 days
Manifar	Iran	RCT	not greater than 6 mm	15/13	36.1±9.6	2% curcumin (28)	twice per day for a two week
2012				17/12	33.3 ±9.5	placebo gel (29)	twice per day for a two week
Liu	China	RCT	<10 mm	50/70	32.29±11.25	dexamethasone ointment (120)	3 times a day (after meals) for 5 days
2012				52/68	31.67±12.04	placebo (120)	3 times a day (after meals) for 5 days
Babae	Iran	RCT	minor RAS	10/10	27.95±7.96	Aloe vera gel (20)	thraee-times a day for at least ten days
2012				8/12	29.25±7.48	placebo (20)	thraee-times a day for at least ten days
Zand	Iran	RCT	minor aphthous ulcers	1/9	35.6 22-56	non-ablative CO2 laser therapy (NACLT) (10)	single
2012						placebo (10)	single
Galal	Egypt	RCT	NA	NA	18-35	Licorice (10)	four times on the lesions
2012						control (10)	four times on the lesions
Trinchieri	Italy	RCT	minor aphthous stomatitis	7/8	8-36	lozenge containing Lactobacillus brevis CD2 (15)	4 times daily for a total period of 7 days
2011				8/7	7-35	placebo (15)	4 times daily for a total period of 7 days
Meng	China	RCT	Minor Recurrent aphthous ulceration	44/64	29.82±10.44	amlexanox adhesive pellicles (108)	4 times a day (after meals and before bedtime) for 5 days
2009				37/71	30.18±11.06	placebo (105)	4 times a day (after meals and before bedtime) for 5 days

Tezel 2009	Turkey	RCT	NA	4/6 3/7	29.7±7.4 34.3±7.7	(triamcinolone acetonide 0.1% Nd:YAG laser	three times a day for 1 wk (10) single (10)
Skulason 2009	Iceland	RCT	minor recurrent oral ulceration	7/18 10/14	NA	Doxy-Gel, a gel containing a low dose of doxycycline (25) placebo (24)	four times a day four times a day
Zand 2009	Iran	RCT	miRAS	2/13	37.9±10.9	CO2 laser (15) placebo (15)	single single
Moghadamnia 2009	Iran	RCT	minor RAS	10/5	26.27±4.28	bioadhesive with licorice (15) bioadhesive without licorice (15)	q.i.d. for 5 days q.i.d. for 5 days
Gorsky 2008	Israel	RCT	RAS minor	9/9 4/11	37 (16-66) 38 (17-71)	0.2% aqueous solution of minocycline as a mouthwash (18) aqueous placebo mouthwash (15)	four times a day, avoiding any food or drink for 1 hour after rinsing. Therapy continued up to 10 days following the onset of the lesion or until resolution of pain four times a day, avoiding any food or drink for 1 hour after rinsing. Therapy continued up to 10 days following the onset of the lesion or until resolution of pain
Rodríguez 2007	Colombia	RCT	NA	14/34 30/18	30.6±9.0 34.5±13.7	0.05% clobetasol propionate oral paste (48) 5% amlexanox oral paste (48)	s four times per day for 5 days s four times per day for 5 days
Arikan 2006	Turkey	RCT	NA	11/9	30.9 (18-47)	cryotherapy (20) hydrogel (20)	NA NA
Liu 2006	China	RCT	minor aphthous ulcerations	101/111	34	amlexanox tablets (104) vehicle tablets (108)	4 times a day (after meals and before bedtime) for 5 days 4 times a day (after meals and before bedtime) for 5 days
Garnick	USA	RCT	aphthous stomatitis	35 (19-56)	NA	Carrier gel (4)	NA

minor							
1998						Aloe vera (3)	NA
Khandwala 1	USA	RCT	minor ulcers	NA	NA	Vehicle (512)	four times a day until ulcers healed or for the duration of the study
1997						5% Amlexanox (579)	four times a day until ulcers healed or for the duration of the study
Ylikontiola	Finland	RCT	minor aphthae	4/27	woman: 38 (23-63) man:32 (28-45)	doxymycine (15)	Medications were covered by isobutyl cyanoacrylate (Iso-Dent). Application was made only once during the recurrent aphthous ulcer episode
1997						calcii gluconase as placebo (16)	Medications were covered by isobutyl cyanoacrylate (Iso-Dent). Application was made only once during the recurrent aphthous ulcer episode
Greer Jr	USA	RCT	NA	NA	18-70	5% amlexanox paste (18)	twice daily for 3 days and once on day 4
1993						vehicle paste (14)	twice daily for 3 days and once on day 4
Miles	USA	RCT	NA	NA	NA	0.025% triamcinolone acetonide (6)	The patient returned to the clinic each time a new lesion appeared for reapplication of their assigned treatment
1993						0.12% chlorhexidine digluconate (6)	The patient returned to the clinic each time a new lesion appeared for reapplication of their assigned treatment
Taylor	UK	RCT	minor aphthous ulceration	7/11	32.6 (20-57)	PGE2 gel (18)	twice daily for 10 days or until healing
1993				6/9		placebo (15)	twice daily for 10 days or until healing
Hunter	UK	RCT	minor aphthous	12/29	27.4 (17-61)	0.2% chlorhexidine gluconate (38)	3 times daily for 6 weeks

ulceration								
1987							placebo mouthwash (38)	3 times daily for 6 weeks
Matthews	UK	RCT	minor RAS		NA	NA	Benzylamine hydrochloride 0.15% mouthwash (18)	2 minutes every 4 hours for 3 mouths
1987							0.2% aqueous chlorhexidine gluconate mouthwash (18)	2 minutes every 4 hours for 3 mouths
							Placebo (18)	2 minutes every 4 hours for 3 mouths
Yeoman	UK	RCT	minor aphthous ulcers	9/12		35 (17-63)	betamethasone valerate aerosol (10)	NA
1978							placebo aerosol (10)	NA
Addy	UK	RCT	NA		NA	NA	Chlorhexidine gel (20)	3 times a day after meals for 35 days
1976							Placebo gel (20)	3 times a day after meals for 35 days
Addy	UK	RCT	NA		11/15	17-60	Asringent (Zine Sulphate and Zine Chloride 0.5ml) (12)	3 times daily after meals for 5 weeks
1974							Control (12)	3 times daily after meals for 5 weeks
Browne	UK	RCT	severe recurrent aphthous stomatitis	9/17		29.6 (10-53)	Orabase (26)	three times a day
1968							0.1% triamcinolone acetonide in orabase (26)	three times a day

Table S7 Outcomes of included studies

Author Year	Clinical response assessment	Symptom assessment		Adverse effect	Hematologic values	Relapse
	size/healing time	VAS/NRS/0-10				
Huo 2021	healing time	VAS	NA		NA	NA
Aggour (audIt) 2021	Size	VAS	NA		NA	Outbreak frequency/6 months Probiotics: 3.33 (0.64) Placebo: 3.65 (0.32)
Aggour (child) 2021	Size	VAS	NA		NA	Outbreak frequency/6 months Probiotics: 2.65 (0.54) Placebo: 3.65 (0.62)
Shi 2020	healing time	NA	NA		NA	NA
Kavita 2020	Size	VAS	NA		NA	NA
Shao 2020	Size	VAS	No adverse effects were observed during the study		NA	NA
Pedersen 2020	NA	VAS	No side effects or adverse events were reported by the patients during the intervention period		NA	NA
Ghorbani 2020	Size	VAS	No adverse effect was observed in the two groups during the study		NA	NA
Ibrahim 2020	Size and healing time	NA	No side effects were reported in both groups		NA	NA
Kia 2020	Size	VAS	No burning sensation, the abnormal change in the mucosa, or taste sense malfunction was observed		NA	NA

Owlia 2020	Size and healing time	NA	three patients just complained of minor burning sensation after application of drug	NA	NA
Seyyedi 2020	Size	NA	NA	NA	NA
Raman 2020	Size and healing time	NA	There were no major adverse effects reported in both the groups during the study period	NA	NA
Bardellini 2020	Size	VAS	NA	NA	NA
Nirmala 2019	Size	NA	NA	NA	NA
Soliman 2019	Size	VAS	NA	NA	NA
Tavangar 2019	Size and healing time	VAS	NA		NA
Halboub 2019	Size and healing time	VAS	NA	NA	NA
El-Wakeel 2019	healing time	VAS	NA	NA	NA
Rahmani 2018	Size and healing time	VAS	one patient (5%) felt mild throat sore after applying Chitosan mouthwash and bad taste 20 minutes	NA	NA
Sharma 2018	Size	VAS	None of the patients reported any allergy to any therapy	NA	NA
Ofluoglu 2017	Size	VAS	All patients tolerated the agents and no side effect were reported during the study	NA	NA
Zeini 2017	healing time	VAS	NA	NA	NA

Rodríguez-Archilla 2017	healing time	NA	No patient reported adverse effects related to the treatment received	NA	NA
Pandya 2017	Size	VAS	NA	NA	NA
Yilmaz 2017	NA	VAS	No complications or adverse reactions were observed	NA	NA
Nasry 2016	Size	VAS	NA	NA	NA
Abbasi 2016	Size	VAS	NA	NA	NA
Andishe Tadbir 2015	Size and healing time	VAS	NA	NA	NA
Raeesi 2015	Size and healing time	VAS	without side effect	NA	NA
Aggarwal 2014	healing time	NA	NA	NA	NA
Mansour 2014	Size	VAS	No adverse effects were reported regarding all used mucoadhesive gels	NA	NA
Deshmukh 2014	Size and healing time	VAS	No patient suffered from any allergic reaction to the gels used in the study for treatment of minor RAS	NA	NA
El-Haddad 2014	Size and healing time	VAS	No systemic side effects	NA	NA
Albrektson 2014	NA	VAS	Twenty patients in each group completed the study, with no reported adverse events	NA	NA
Soylu 2014	healing time	VAS	No side effects were recorded in either of the groups.	NA	NA

Soylu and Okuyucu 2014	healing time	VAS	No side effects were recorded in either of the groups	NA	NA
Bhat 2013	Size	VAS	8 patients belonging to the amlexanox group who complained of adverse events during the study. 3 patients complained of a transient "stinging" at the application site, which was considered to be mild in severity and probably related to the studied medications. 2 patients complained of a metallic taste in the oral cavity soon after application of the paste. 3 other patients complained of a "cooling" sensation at the application site following which they felt slight discomfort for a few minutes. None of these 8 cases discontinued the trial due to the adverse events	NA	NA
Bhalang 2013	Size	VAS	No subjects exhibited allergic reactions or side-effects to acemannan	There were no significant differences between the blood test values before and after 7 days of acemannan application	NA
Halim 2013	Size	VAS	NA	NA	NA
Jiang and Yang 2013	Size	VAS	no obvious adverse side effects	NA	NA
Jiang and Zhu 2013	Size	VAS	without obvious side effects	NA	NA
Prasad 2013	healing time	0-10 score	NA	NA	NA
Vijayabala 2013	healing time	VAS	8 report transient bitter sensation	NA	NA
Sattayut	Size	VAS	NA	NA	NA

2013					
Jiang 2012	Size	VAS	No minor or major adverse side effects	None of the hematologic values at day 6 were considered clinically abnormal	NA
Manifar 2012	Size	NA	No adverse drug reaction to a treatment was reported	NA	NA
Liu 2012	Size and healing time	NRS	Twelve cases (4 in the treatment group and 8 in the control group) reported slight adverse reactions	the concentration of dexamethasone in the serum after using the dexamethasone ointment was <0.502 ng/mL	NA
Babae 2012	Size	VAS	NA	NA	NA
Zand 2012	healing time	NA	The patients reported no warmth in their lesions during laser treatment	NA	NA
Galal 2012	Size	VAS	NA	NA	NA
Trinchieri 2011	Size	0-10 score	complete absence of side effects	NA	NA
Meng 2009	Size	VAS	None of the patients in the study was observed or reported to have any adverse reactions	None of the hematologic values were considered clinically abnormal	NA
Tezel 2009	NA	VAS	there were no reported adverse events	NA	NA
Skulason 2009	NA	0-10 score	One subject reported a short burning sensation from the ulcer after application of the gel	NA	NA
Zand 2009	NA	VAS	None of the patients reported pain or warmth in their lesions during laser therapy	NA	NA

Moghadamnia 2009	Size and healing time	VAS	NA	NA	NA
Gorsky 2008	NA	VAS	no tooth discoloration or other side effects were reported	NA	NA
Rodríguez 2007	NA	VAS	There were no adverse effects reported in any of the treatment groups by the patients or the examiners	NA	NA
Arikan 2006	Size	NA	NA	NA	NA
Liu 2006	Size	VAS	There were 2 adverse events reported in the study, One was in the amlexanox group presented as local,transient “stinging”, Another happened in the vehicle-control group as edema of the fingers.	NA	NA
Garnick 1998	healing time	VAS	NA	NA	NA
Khandwala 1997	Size and healing time	VAS	NA	NA	NA
Ylikontiola 1997	NA	VAS	NA	NA	NA
Greer Jr 1993	Size	NA	None of the patients in the study was observed to have or reported any adverse experience	NA	NA
Miles 1993	healing time	VAS	NA	NA	NA
Taylor 1993	healing time	VAS	NA	NA	NA
Hunter 1987	healing time	NA	NA	NA	Total ulcer numbers (6 weeks): Chlorhexidine: 7.54±6.52 Placebo: 8.32±5.52

					Interval between ulcers (6 weeks): Chlorhexidine: 7.26±8.61 Placebo:3.86±2.05
Matthews 1987	NA	NA	NA	NA	No. of new ulcers (3 months) Benzylamine: 7 (2-33) Chlorhexidine: 6.5 (3-20) Placebo: 8 (2-20)
Yeoman 1978	healing time	NA	NA	NA	NA
Addy 1976	healing time	NA	NA	NA	NA
Addy 1974	healing time	NA	NA	NA	NA
Browne 1968	healing time	NA	NA	NA	No. of new ulcers (8 months) Placebo: 7.81 Triamcinolone acetonide in orabase : 7.00 Triamcinolone acetonide in watery base : 6.42

[illegible]

	Placebo	51	12.61	5.86	2	34.88	8.64	4	65.94	8.88	6
Zeini	Laser	NA									
2017	Placebo	NA									
Rodríguez-Archilla	Silver nitrate	NA									
2017	Honey	NA									
	Placebo	NA									
Pandya	Quercetin	20	44.25	20.96	2	75.40	20.64	4	95.40	21.17	7
2017	Benzydamine	20	22.22	27.04	2	53.54	25.89	4	80.13	25.69	7
Yilmaz	Laser	NA									
2017	Placebo	NA									
Nasry	Glycyrrhiza	15	42.00	11.50	2	63.00	20.50	5			
2016	Amlexanox	15	48.10	16.50	2	77.80	28.70	5			
	Laser	15	52.70	19.80	2	85.10	22.00	5			
	Placebo	15	7.10	5.30	2	10.00	7.30	5			
Abbasi	Dexamethasone	20	53.46	1.01	3	80.77	22.69	5	100.00	0.00	7
2016	Amlexanox	20	48.31	44.92	3	71.69	39.08	5	92.31	43.69	7
Andishe Tadbir	Placebo	15	-23.6	32.34	3	61.71	31.64	6			
2015	Triamcinolone	14	78.46	38.14	3	99.41	40.51	6			
Raeesi	Glycyrrhiza	20	36.65	33.65	1	96.14	37.11	3	99.95	38.26	5
2015	Placebo	20	6.87	26.74	1	70.10	24.90	3	91.73	26.45	5
Aggarwal	Laser	NA									
2014	Placebo	NA									
Mansour	Aloe	30	35.17	NA	4	59.48	24.64	6			
2014	Placebo	30	16.80	NA	4	31.48	31.48	6			
Deshmukh	Curcumin	30	93.03	25.49	3	99.96	28.40	5	100.00	0.00	7
2014	Triamcinolone	30	91.16	37.67	3	99.90	41.12	5	100.00	0.00	7

El-Haddad	Honey	67	85.38	NA	1	98.95	NA	2	99.98	NA	3	100.00	NA	4	100.00	NA	5	100.00	NA	6
2014	Triamcinolone	57	24.36	NA	1	51.75	NA	2	72.33	NA	3	90.67	NA	4	97.24	NA	5	99.72	NA	6
	Placebo	56	23.42	NA	1	47.99	NA	2	64.35	NA	3	78.56	NA	4	89.50	NA	5	96.23	NA	6
			100.00	NA	7	100.00	NA	8												
			99.97	NA	7	100.00	NA	8												
			99.12	NA	7	99.95	NA	8												
Albrektson	Laser	NA																		
2014	Placebo	NA																		
Soylu	Silver nitrate	NA																		
2014	Placebo	NA																		
Soylu and Okuyucu	Sucralfate	NA																		
2014	Chlorhexidine	NA																		
Bhat	Amlexanox	50	47.01	49.91	4	93.10	53.54	6												
2013	Placebo	50	-27.92	37.67	4	12.05	34.99	6												
Bhalang	Triamcinolone	60	10.00	10.00	2	45.00	10.34	5	70.00	10.00	7									
2013	Aloe	60	10.00	9.43	2	30.00	8.85	5	60.00	9.08	7									
	Placebo	60	5.00	10.00	2	10.00	10.00	5	30.00	10.00	7									
Halim	Curcumin	10	48.31	76.03	5															
2013	Triamcinolone	10	69.72	84.51	5															
Jiang and Yang	Diosmectite	35	1.65	20.82	2	28.81	21.40	4	70.37	18.60	6									
2013	Placebo	30	4.78	18.13	2	27.09	18.69	4	54.98	14.22	6									
Jiang and Zhu	Berberine gelatin	42	35.63	18.28	2	54.07	11.98	4	70.56	11.84	6									
2013	Placebo	42	14.14	20.74	2	37.66	18.33	4	54.35	16.40	6									
Prasad	Laser	NA																		
2013	Placebo	NA																		

Vijayabala	Doxycycline	NA															
2013	Placebo	NA															
Sattayut	Laser	7	-18.75	216.25	1	-31.25	198.75	2	-75.00	124.75	3	-12.5	86	5	50.00	72	7
2013	Placebo	7	-31.58	47.79	1	-26.32	48.63	2	5.26	97.89	3	47.37	78	5	78.95	55	7
Jiang	Allicin	48	28.20	32.68	2	57.30	34.30	4	72.50	38.72	6						
2012	Placebo	48	9.80	31.66	2	36.50	39.66	4	55.10	35.32	6						
Manifar	Curcumin	28	68.58	14.99	4	97.47	16.31	7									
2012	Placebo	29	59.04	14.06	4	95.52	13.91	7									
Liu	Dexamethasone	114	88.70	78.47	6±2												
2012	Placebo	117	56.64	92.06	6±2												
Babaee	Aloe	20	22.91	24.50	3	73.90	22.51	7	100.00	0.00	10						
2012	Placebo	20	37.75	28.49	3	94.92	28.49	7	100.00	0.00	10						
Zand	Laser	NA															
2012	Placebo	NA															
Galal	Glycyrrhiza	10	66.25	22.31	2	87.65	23.08	5									
2012	Placebo	10	13.78	16.56	2	19.00	16.79	5									
Trinchieri	Probiotics	15	99.93	NA	7												
2011	Placebo	15	80.11	NA	7												
Meng	Amlexanox	108	42.08	82.22	4	60.21	83.63	6									
2009	Placebo	105	19.67	78.39	4	41.28	91.51	6									
Tezel	Triamcinolone	NA															
2009	Laser	NA															
Skulason	Doxycycline	NA															
2009	Placebo	NA															
Zand	Laser	NA															
2009	Placebo	NA															

Yeoman	Betamethasone	NA
1978	Placebo	NA
Addy	Chlorhexidine	NA
1976	Placebo	NA
Addy	Zinc	NA
1974	Placebo	NA
Browne	Placebo	NA
1968	Triamcinolone	NA

Seyyedi	Laser	5	77.05	11.40	0	73.70	6.70	0.5	77.05	6.70	1	56.95	15.58	2	73.70	18.09	3			
2020	Laser	5	79.72	16.98	0	58.93	16.12	0.5	58.93	16.12	1	69.32	18.20	2	83.19	6.59	3			
	Triamcinolone	5	36.22	9.86	0	48.29	20.72	0.5	52.31	19.72	1	68.41	28.17	2	80.48	26.16	3			
Raman	Curcumin	NA																		
2020	Triamcinolone	NA																		
Bardellini	Laser	30	75.00	41.50	4	75.00	46.00	7												
2020	Placebo	30	25.00	45.75	4	75.00	45.00	7												
Nirmala	Probiotics	NA																		
2019	Triamcinolone	NA																		
Soliman	Laser	10	50.00	87.00	2	59.00	86.50	3	91.82	18.34	4	100.00	0.00	6						
2019	Placebo	10	0.00	0.00	2	8.00	14.00	3	8.00	13.98	4	48.00	31.55	6						
Tavangar	Triamcinolone	20	0.00	NA	1	5.00	NA	2	25.00	NA	3	45.00	NA	4	70.00	NA	5	100.00	NA	6
2019	Placebo	20	0.00	NA	1	0.00	NA	2	5.00	NA	3	30.00	NA	4	50.00	NA	5	90.00	NA	6
			100.00	NA	7															
			100.00	NA	7															
Halboub	N-acetylcysteine	38	47.47	32.28	2	78.64	40.66	4	89.87	37.34	6									
2019	Chlorhexidine	20	31.82	35.27	2	62.73	49.82	4	80.91	39.27	6									
El-Wakeel	Insulin-liposomal gel	40	62.50	24.50	1	75.00	24.50	2	100.00	0.00	3	100.00	0.00	4	100.00	0.00	6			
2019	Placebo	40	0.00	0.00	1	12.50	18.50	2	25.00	18.50	3	62.50	27.75	4	50.00	18.50	6			
Rahmani	Chitosan	20	-17.15	NA	3	57.85	NA	5	80.81	NA	7	100.00	NA	10						
2018	Triamcinolone	20	39.73	NA	3	88.36	NA	5	97.26	NA	7	100.00	NA	10						
Sharma	Triamcinolone	10	59.72	16.25	4	88.89	9.44	8	100.00	0.00	10									
2018	Benzydamine	10	49.18	18.69	4	100.00	10.98	8	100.00	0.00	10									
	Doxycycline	10	64.29	16.86	4	100.00	9.14	8	100.00	0.00	10									
	Placebo	10	38.81	17.46	4	100.00	11.04	8	88.06	9.55	10									
Ofluoglu	Triamcinolone	53	14.34	5.42	2	32.61	6.43	4	63.96	10.59	6									

2017	Triester Glycerol Oxide	56	23.18	5.47	2	42.85	9.19	4	72.86	11.30	6									
	Placebo	51	9.03	6.76	2	28.63	8.12	4	61.21	10.40	6									
Zeini	Laser	14	1.71	3.02	0															
2017	Placebo	10	1.00	2.30	0															
Rodríguez-Archilla	Silver nitrate	NA																		
2017	Honey	NA																		
	Placebo	NA																		
Pandya	Quercetin	20	45.79	33.27	2	85.98	30.65	4	98.13	31.03	7									
2017	Benzydamine	20	34.34	36.57	2	67.68	39.39	4	90.91	30.51	7									
Yilmaz	Laser	40	97.59	22.89	0	90.36	22.53	1	95.18	24.22	3	98.80	23.73	7	100.00	0.00	10			
2017	Placebo	40	3.7	27.90	0	8.64	26.67	1	41.98	26.17	3	86.42	26.17	7	100.00	0.00	10			
Nasry	Glycyrrhiza	15	22.20	10.50	2	43.40	15.80	5												
2016	Amlexanox	15	29.80	11.30	2	61.90	24.50	5												
	Laser	15	43.30	20.00	2	67.80	21.50	5												
	Placebo	15	4.10	0.50	2	6.20	1.60	5												
Abbasi	Dexamethasone	20	61.83	33.02	3	88.36	33.97	5	100.00	0.00	7									
2016	Amlexanox	20	65.73	36.89	3	80.52	37.21	5	100.00	0.00	7									
Andishe Tadbir	Placebo	15	-17.63	48.68	3	36.84	48.95	6												
2015	Triamcinolone	14	58.70	28.26	3	89.61	28.50	6												
Raeesi	Glycyrrhiza	20	55.43	11.88	1	92.96	10.26	3	100.00	0.00	5									
2015	Placebo	20	17.42	13.53	1	41.37	13.37	3	62.21	13.69	5									
Aggarwal	Laser	NA																		
2014	Placebo	NA																		
Mansour	Aloe	30	56.10	NA	4	76.45	45.61	6												
2014	Placebo	30	30.74	NA	4	63.20	56.71	6												
Deshmukh	Curcumin	30	29.79	32.34	1	55.32	33.19	2	76.60	30.21	3	91.49	28.30	4	98.72	30.64	5	100.00	0.00	6

2014	Triamcinolone	30	26.67 100.00 100.00	34.89 0.00 0.00	1 7 7	53.33	35.78	2	75.56	33.11	3	88.89	28.67	4	95.56	27.56	5	98.67	29.33	6
El-Haddad 2014	Honey Triamcinolone Placebo	67 57 56	99.33 25.81 3.57 100.00 100.00 95.19	NA NA NA NA NA NA	1 1 1 7 7 7	100.00 56.86 13.01 100.00 100.00 100.00	NA NA NA NA NA NA	2 2 2 8 8 8	100.00 90.79 23.53	NA NA NA	3 3 3	100.00 100.00 64.35	NA NA NA	4 4 4	100.00 100.00 83.78	NA NA NA	5 5 5	100.00 100.00 85.92	NA NA NA	6 6 6
Albrektson 2014	Laser Placebo	20 20	33.65 1.22	NA NA	1 1	62.81 6.85	NA NA	2 2												
Soylu 2014	Silver nitrate Placebo	35 30	23.65 7.61	9.39 7.61	1 1	55.80 35.22	8.84 8.70	3 3	94.70 68.48	8.18 8.70	7 7									
Soylu and Okuyucu 2014	Sucralfate Chlorhexidine	35 35	27.95 16.00	8.64 9.06	1 1	50.39 31.32	9.99 9.73	3 3	94.95 88.81	8.31 11.86	7 7									
Bhat 2013	Amlexanox Placebo	50 50	60.72 9.31	16.80 15.82	4 4	89.66 22.07	12.02 17.69	6 6												
Bhalang 2013	Triamcinolone Aloe Placebo	60 60 60	12.43 14.80 10.62 93.11 82.37 75.48	3.93 3.73 4.14 4.14 3.93 3.93	0 0 0 7 7 7	29.72 24.97 18.98	3.62 3.73 4.14	2 2 2	49.49 32.09 29.15	3.80 4.14 4.30	3 3 3	64.97 44.41 40.23	4.14 3.93 3.93	4 4 4	78.19 56.61 51.53	3.62 3.62 3.93	5 5 5	87.80 69.15 64.07	3.73 3.93 4.14	6 6 6
Halim 2013	Curcumin Triamcinolone	10 10	80.70 81.82	36.32 72.04	5 5															
Jiang and Yang	Diosmectite	35	9.75	16.10	2	24.39	21.99	3	42.68	23.74	4	51.22	17.20	5	56.10	16.13	6			

2013	Placebo	30	5.13	21.92	2	14.10	23.08	3	24.36	25.77	4	35.90	22.69	5	38.46	21.28	6			
Jiang and Zhu	Berberine gelatin	42	16.10	16.71	2	44.57	17.20	4	76.65	16.83	6									
2013	Placebo	42	6.56	12.57	2	22.60	15.09	4	60.87	13.53	6									
Prasad	Laser	25	91.98	7.90	0	96.70	7.55	1												
2013	Placebo	25	1.49	9.65	0	8.17	9.78	1												
Vijayabala	Doxycycline	25	42.19	29.69	1	64.06	28.13	2	85.94	29.69	3	93.75	34.38	4	98.44	37.50	5	98.44	37.50	6
2013	Placebo	25	11.86	16.95	1	23.73	25.42	2	47.46	37.29	3	67.80	35.59	4	84.75	32.20	5	96.61	35.59	6
			98.44	35.94	7	100.00	3	8	100.00	0	9	100.00	0	10						
			100.00	0.00	7	100.00	0	8	100.00	0	9	100.00	0	10						
Sattayut	Laser	7	20.51	35.67	0	22.08	39.37	1	49.73	39.07	2									
2013	Placebo	7	41.99	38.61	0	25.37	35.16	1	38.47	41.04	2									
Jiang	Allicin	48	20.10	22.79	2	56.30	17.83	4	75.70	16.62	6									
2012	Placebo	48	13.90	29.37	2	33.60	28.42	4	52.00	23.22	6									
Manifar	Curcumin	NA																		
2012	Placebo	NA																		
Liu	Dexamethasone	114	95.09	33.16	6±2															
2012	Placebo	117	82.19	37.27	6±2															
Babae	Aloe	20	19.33	NA	2	44.15	NA	3	64.36	NA	4	74.47	NA	5	79.61	NA	6	82.62	NA	7
2012	Placebo	20	13.11	NA	2	34.65	NA	3	44.34	NA	4	59.61	NA	5	69.66	NA	6	77.20	NA	7
Zand	Laser	NA																		
2012	Placebo	NA																		
Galal	Glycyrrhiza	10	14.60	10.20	2	22.90	40.30	5												
2012	Placebo	10	4.00	0.70	2	6.00	1.20	5												
Trinchieri	Probiotics	15	96.82	NA	7															
2011	Placebo	15	47.14	NA	7															
Meng	Amlexanox	108	56.12	43.88	4	80.97	43.31	6												

2009	Placebo	105	38.75	45.20	4	66.61	43.91	6												
Tezel	Triamcinolone	10	19.82	9.33	1	51.94	8.81	4	93.01	8.29	7									
2009	Laser	10	82.97	9.78	1	97.71	8.77	4	100.00	0.00	7									
Skulason	Doxycycline	25	23.53	48.04	2	43.14	53.33	3												
2009	Placebo	24	9.43	48.11	2	24.53	51.32	3												
Zand	Laser	15	98.87	19.03	0	92.74	19.35	4h	90.32	18.55	8h	90	18.87	12h	92.10	19.03	24h	91.61	18.55	48h
2009	Placebo	15	3.33	21.48	0	-0.37	21.30	4h	0.00	21.48	8h	0.37	21.30	12h	-3.15	20.93	24h	12.96	20.93	48h
			95.97	19.19	72h	96.29	19.35	96h												
			25.19	21.11	72h	42.04	20.93	96h												
Moghadamnia	Glycyrrhiza	15	-86.44	24.29	1	-97.74	23.16	2	-40.11	24.29	3	18.64	23.16	4	57.06	23.16	5			
2009	Placebo	15	-52.78	17.06	1	-42.46	16.67	2	-15.08	16.67	3	25.40	17.06	4	48.81	17.06	5			
Gorsky	Minocycline	18	20.41	NA	1	55.51	NA	2	69.39	NA	3	73.47	NA	4	79.59	NA	5	79.59	NA	6
2008	Placebo	15	-2.78	NA	1	-38.89	NA	2	-55.56	NA	3	-66.67	NA	4	-66.67	NA	5	-61.11	NA	6
			79.59	NA	7	79.59	NA	8	79.59	NA	9	79.59	NA	10						
			-50	NA	7	-22.22	NA	8	-8.33	NA	9	16.67	NA	10						
Rodríguez	Clobetasol	48	50.29	NA	2	84.35	NA	5												
2007	Amlexanox	48	45.95	NA	2	74.16	NA	5												
Arikan	Cryotherapy	NA																		
2006	Placebo	NA																		
Liu	Amlexanox	104	58.00	44.89	4	90.00	39.33	6												
2006	Placebo	108	43.00	48.77	4	76.54	43.21	6												
Garnick	Placebo	NA																		
1998	Aloe	NA																		
Khandwala	Placebo	512	36.63	3.02	3	49.88	3.25	4	65.66	3.48	5									
1997	Amlexanox	579	42.08	2.72	3	66.09	3.22	4	81.93	2.97	5									
Ylikontiola	Doxycycline	15	38.00	14.40	1	61.60	10.00	2	76.60	5.80	3	82.60	3.60	4	84.40	5.20	5	90.00	5.20	6

1997	Placebo	16	16.00	13.00	1	22.00	9.20	2	27.40	10.40	3	39.40	10.40	4	57.80	9.20	5	71.20	8.20	6
			95.20	3.00	7	94.80	2.60	8	98.40	1.60	9	99.60	0.60	10						
			80.40	7.00	7	94.40	4.40	8	98.80	1.20	9	100.00	0.00	10						
Greer Jr	Amlexanox	NA																		
1993	Placebo	NA																		
Miles	Triamcinolone	6	32.79	21.31	2	48.91	21.86	3	74.59	21.31	4	77.60	21.04	5	86.34	21.58	6	95.36	22.95	7
1993	Chlorhexidine	6	38.67	20.26	2	78.27	18.23	3	84.71	18.23	4	86.56	18.05	5	90.24	18.05	6	90.42	18.05	7
			98.36	23.77	8	99.73	24.32	9	100.00	0	10									
			100.00	0.00	8	100.00	0.00	9	100.00	0	10									
Taylor	Prostaglandin E2	18	-4.86	NA	2	-0.4	NA	3	-10.53	NA	4	19.84	NA	5	50.61	NA	6	68.42	NA	7
1993	Placebo	15	-16.67	NA	2	-14.78	NA	3	10.38	NA	4	22.96	NA	5	42.45	NA	6	63.52	NA	7
			78.95	NA	8	87.85	NA	9	89.96	NA	10									
			64.47	NA	8	83.96	NA	9	88.36	NA	10									
Hunter	Chlorhexidine	NA																		
1987	Placebo	NA																		
Matthews	Benzylamine	NA																		
1987	Chlorhexidine	NA																		
Yeoman	Betamethasone	NA																		
1978	Placebo	NA																		
Addy	Chlorhexidine	NA																		
1976	Placebo	NA																		
Addy	Zinc	NA																		
1974	Placebo	NA																		
Browne	Placebo	NA																		
1968	Triamcinolone	NA																		

Table S10 Details information of studies for each outcome in network meta-analysis (3)

Author	Year	Treatment	Healing effect (days)			Adverse event occurrence	
			Mean	SD	Total	Events	Total
Huo		Laser	6.60	0.29	25	NA	
2021		Triamcinolone	7.77	0.52	26	NA	
Aggour (adlt)		Probiotics	NA			NA	
2021		Placebo	NA			NA	
Aggour (child)		Probiotics	NA			NA	
2021		Placebo	NA			NA	
Shi		Aloe	7.40	1.85	20	NA	
2020		Chitosan	7.93	1.84	15	NA	
Kavita		Triamcinolone	NA			NA	
2020		Amlexanox	NA			NA	
Shao		Chitosan	NA			0	34
2020		Placebo	NA			0	32
Pedersen		Probiotics	NA			0	10
2020		Placebo	NA			0	10
Ghorbani		Zinc	NA			0	23
2020		Placebo	NA			0	23
Ibrahim		Triamcinolone	7.75	2.88	20	0	20
2020		Probiotics	5.40	1.40	20	0	20
Kia		Curcumin	NA			0	29
2020		Triamcinolone	NA			0	29
Owlia		Penicillin	2.79	0.16	14	3	25
2020		Placebo	5.90	0.93	12	0	25

Seyyedi	Laser	NA			NA	
2020	Laser	NA			NA	
	Triamcinolone	NA			NA	
Raman	Curcumin	7.21	0.08	30	0	30
2020	Triamcinolone	6.77	0.08	30	0	30
Bardellini	Laser	NA			NA	
2020	Placebo	NA			NA	
Nirmala	Probiotics	NA			NA	
2019	Triamcinolone	NA			NA	
Soliman	Laser	NA			NA	
2019	Placebo	NA			NA	
Tavangar	Triamcinolone	5.75	1.08	20	NA	
2019	Placebo	6.50	1.05	20	NA	
Halboub	N-acetylcysteine	4.87	2.46	38	NA	
2019	Chlorhexidine	5.40	2.82	20	NA	
El-Wakeel	Insulin-liposomal gel	4.20	0.60	40	NA	
2019	Placebo	8.10	1.00	40	NA	
Rahmani	Chitosan	6.20	1.82	20	1	20
2018	Triamcinolone	5.15	1.42	20	0	20
Sharma	Triamcinolone	NA			0	10
2018	Benzydamine	NA			0	10
	Doxycycline	NA			0	10
	Placebo	NA			0	10
Ofluoglu	Triamcinolone	NA			0	53
2017	Triester Glycerol Oxide	NA			0	56
	Placebo	NA			0	51

Zeini	Laser	7.21	4.20	14	NA	
2017	Placebo	6.40	1.83	10	NA	
Rodríguez-Archilla	Silver nitrate	7.32	0.99	25	0	25
2017	Honey	6.80	0.71	25	0	25
	Placebo	8.96	0.89	25	0	25
Pandya	Quercetin	NA			NA	
2017	Benzydamine	NA			NA	
Yilmaz	Laser	NA			0	40
2017	Placebo	NA			0	40
Nasry	Glycyrrhiza	NA			NA	
2016	Amlexanox	NA			NA	
	Laser	NA			NA	
	Placebo	NA			NA	
Abbasi	Dexamethasone	NA			NA	
2016	Amlexanox	NA			NA	
Andishe Tadbir	Placebo	6.58	NA	15	NA	
2015	Triamcinolone	4.22	NA	14	NA	
Raeesi	Glycyrrhiza	4.20	1.30	20	0	20
2015	Placebo	7.45	1.30	20	0	20
Aggarwal	Laser	3.05	1.10	30	NA	
2014	Placebo	8.90	2.45	30	NA	
Mansour	Aloe	NA			0	30
2014	Placebo	NA			0	30
Deshmukh	Curcumin	3.90	1.18	30	0	30
2014	Triamcinolone	4.10	1.18	30	0	30
El-Haddad	Honey	2.73	0.57	67	0	67

2014	Triamcinolone	5.91	0.91	57	0	57
	Placebo	7.14	0.92	56	0	56
Albrektson	Laser	NA			0	20
2014	Placebo	NA			0	20
Soylu	Silver nitrate	2.70	1.48	35	0	35
2014	Placebo	5.50	2.22	30	0	30
Soylu and Okuyucu	Sucralfate	1.97	1.56	23	0	35
2014	Chlorhexidine	2.80	3.00	19	0	35
Bhat	Amlexanox	NA			8	50
2013	Placebo	NA			0	50
Bhalang	Triamcinolone	NA			0	60
2013	Aloe	NA			0	60
	Placebo	NA			0	60
Halim	Curcumin	NA			NA	
2013	Triamcinolone	NA			NA	
Jiang and Yang	Diosmectite	NA			0	35
2013	Placebo	NA			0	30
Jiang and Zhu	Berberine gelatin	NA			0	42
2013	Placebo	NA			0	42
Prasad	Laser	4.08	0.81	25	NA	
2013	Placebo	7.84	0.90	25	NA	
Vijayabala	Doxycycline	3.70	1.30	25	8	25
2013	Placebo	5.30	1.20	25	0	25
Sattayut	Laser	NA			NA	
2013	Placebo	NA			NA	
Jiang	Allicin	NA			0	48

2012	Placebo	NA			0	48
Manifar	Curcumin	NA			0	28
2012	Placebo	NA			0	29
Liu	Dexamethasone	6.00	NA	114	4	120
2012	Placebo	7.00	NA	117	8	120
Babae	Aloe	NA			NA	
2012	Placebo	NA			NA	
Zand	Laser	4.80	2.40	10	0	10
2012	Placebo	7.60	2.50	10	0	10
Galal	Glycyrrhiza	NA			NA	
2012	Placebo	NA			NA	
Trinchieri	Probiotics	NA			0	15
2011	Placebo	NA			0	15
Meng	Amlexanox	NA			0	108
2009	Placebo	NA			0	105
Tezel	Triamcinolone	NA			0	10
2009	Laser	NA			0	10
Skulason	Doxycycline	NA			1	25
2009	Placebo	NA			0	24
Zand	Laser	NA			0	15
2009	Placebo	NA			0	15
Moghadamnia	Glycyrrhiza	8.46	1.55	15	NA	
2009	Placebo	8.60	1.68	15	NA	
Gorsky	Minocycline	NA			0	18
2008	Placebo	NA			0	15
Rodríguez	Clobetasol	NA			0	48

2007	Amlexanox	NA			0	48
Arikan	Cryotherapy	NA			NA	
2006	Placebo	NA			NA	
Liu	Amlexanox	NA			1	104
2006	Placebo	NA			1	108
Garnick	Placebo	9.01	1.32	4	NA	
1998	Aloe	6.38	0.73	3	NA	
Khandwala	Placebo	4.90	NA	512	NA	
1997	Amlexanox	5.60	NA	579	NA	
Ylikontiola	Doxycycline	NA			NA	
1997	Placebo	NA			NA	
Greer Jr	Amlexanox	NA			0	18
1993	Placebo	NA			0	14
Miles	Triamcinolone	5.93	NA	6	NA	
1993	Chlorhexidine	5.38	NA	6	NA	
Taylor	Prostaglandin E2	7.78	2.44	18	NA	
1993	Placebo	8.27	1.87	15	NA	
Hunter	Chlorhexidine	5.02	2.41	38	NA	
1987	Placebo	5.78	2.74	38	NA	
Matthews	Benzydamine	NA			NA	
1987	Chlorhexidine	NA			NA	
Yeoman	Betamethasone	8.50	NA	10	NA	
1978	Placebo	15.00	NA	10	NA	
Addy	Chlorhexidine	4.80	2.90	20	NA	
1976	Placebo	7.80	2.90	20	NA	
Addy	Zinc	21.80	11.50	12	NA	

1974	Placebo	16.80	6.20	12	NA
Browne	Placebo	8.21	NA	26	NA
1968	Triamcinolone	7.53	NA	26	NA

Chapter S1 Healing effect

1.Consistency Model

Summary estimates for Healing effect

The estimate values for healing effect are given as mean difference (MD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Alice	115 (-206, 438)	021 (-414, 450)	079 (-348, 519)	038 (-464, 529)	020 (-388, 446)	-156 (-560, 245)	-193 (-687, 294)	-110 (-470, 263)	-036 (-618, 529)
-115 (-438, 206)	Chitosan	-094 (-543, 333)	-036 (-443, 380)	-079 (-601, 421)	-093 (-530, 334)	-270 (-676, 125)	-308 (-815, 192)	-224 (-596, 157)	-147 (-732, 424)
-021 (-450, 414)	094 (-333, 543)	Chlorhexidine	063 (-362, 487)	018 (-445, 476)	001 (-387, 394)	-174 (-537, 195)	-212 (-675, 249)	-130 (-443, 214)	-055 (-436, 335)
-079 (-519, 348)	036 (-380, 443)	-063 (-487, 362)	Curcumin	-043 (-549, 445)	-061 (-475, 364)	-236 (-618, 149)	-275 (-778, 206)	-192 (-525, 157)	-113 (-699, 446)
-038 (-529, 464)	079 (-421, 601)	-018 (-476, 445)	043 (-445, 549)	Doxycycline	-016 (-473, 445)	-195 (-628, 251)	-229 (-747, 294)	-147 (-541, 281)	-067 (-672, 538)
-020 (-446, 388)	093 (-334, 530)	-001 (-394, 387)	061 (-364, 475)	016 (-445, 473)	Glycyrrhiza	-177 (-538, 184)	-214 (-674, 250)	-131 (-443, 194)	-057 (-614, 491)
156 (-245, 560)	270 (-125, 676)	174 (-195, 537)	236 (-149, 618)	195 (-251, 628)	177 (-184, 538)	Honey	-037 (-482, 392)	046 (-232, 332)	124 (-402, 650)
193 (-294, 687)	308 (-192, 815)	212 (-249, 675)	275 (-206, 778)	229 (-294, 747)	214 (-250, 674)	037 (-392, 482)	Insulin-hipposorol gel	082 (-311, 493)	158 (-451, 769)
110 (-263, 470)	224 (-157, 596)	130 (-214, 443)	192 (-157, 525)	147 (-281, 541)	131 (-194, 443)	-046 (-332, 232)	-082 (-493, 311)	Laser	077 (-438, 584)
036 (-529, 618)	147 (-424, 732)	055 (-335, 436)	113 (-446, 699)	067 (-538, 672)	057 (-491, 614)	-124 (-650, 402)	-158 (-769, 451)	-077 (-584, 438)	N-acetylcysteine
112 (-382, 623)	227 (-272, 735)	131 (-330, 597)	195 (-297, 692)	151 (-382, 678)	133 (-313, 597)	-045 (-463, 400)	-078 (-592, 455)	001 (-388, 428)	078 (-531, 683)
-196 (-526, 129)	-085 (-423, 265)	-178 (-455, 096)	-116 (-438, 207)	-160 (-539, 206)	-175 (-438, 095)	-355 (-590, -113)	-390 (-753, -023)	-308 (-481, -119)	-231 (-706, 240)
170 (-359, 682)	282 (-230, 767)	188 (-337, 694)	247 (-223, 704)	202 (-397, 774)	189 (-338, 676)	012 (-471, 475)	-026 (-618, 533)	057 (-406, 509)	138 (-527, 760)
-147 (-657, 369)	-034 (-549, 504)	-131 (-605, 349)	-065 (-568, 454)	-111 (-661, 420)	-128 (-600, 352)	-304 (-753, 159)	-343 (-870, 196)	-260 (-676, 185)	-180 (-790, 426)
054 (-351, 472)	172 (-248, 590)	074 (-306, 441)	135 (-259, 544)	089 (-357, 542)	075 (-298, 450)	-102 (-392, 193)	-137 (-598, 304)	-055 (-356, 254)	021 (-502, 552)
067 (-508, 639)	181 (-399, 776)	084 (-310, 476)	148 (-427, 729)	101 (-518, 704)	091 (-467, 633)	-089 (-624, 447)	-125 (-735, 475)	-046 (-553, 478)	029 (-517, 584)
-069 (-420, 270)	044 (-275, 360)	-051 (-397, 288)	011 (-245, 264)	-033 (-466, 392)	-051 (-377, 284)	-225 (-507, 047)	-263 (-694, 152)	-180 (-403, 052)	-102 (-629, 413)
-724 (-1578, 188)	-608 (-1487, 327)	-701 (-1571, 192)	-639 (-1505, 230)	-688 (-1568, 233)	-700 (-1557, 203)	-882 (-1719, 014)	-916 (-1813, 015)	-832 (-1660, 064)	-749 (-1712, 225)

-1.12 (-6.23, 3.82)	1.96 (-1.29, 5.26)	-1.70 (-6.82, 3.59)	1.47 (-3.69, 6.57)	-0.54 (-4.72, 3.51)	-0.67 (-6.39, 5.08)	0.69 (-2.70, 4.20)	7.24 (-1.88, 15.78)
-2.27 (-7.35, 2.72)	0.85 (-2.65, 4.23)	-2.82 (-7.67, 2.30)	0.34 (-5.04, 5.49)	-1.72 (-5.90, 2.48)	-1.81 (-7.76, 3.99)	-0.44 (-3.60, 2.75)	6.08 (-3.27, 14.87)
-1.31 (-5.97, 3.30)	1.78 (-0.96, 4.55)	-1.88 (-6.94, 3.37)	1.31 (-3.49, 6.05)	-0.74 (-4.41, 3.06)	-0.84 (-4.76, 3.10)	0.51 (-2.88, 3.97)	7.01 (-1.92, 15.71)
-1.95 (-6.92, 2.97)	1.16 (-2.07, 4.38)	-2.47 (-7.04, 2.23)	0.65 (-4.54, 5.68)	-1.35 (-5.44, 2.59)	-1.48 (-7.29, 4.27)	-0.11 (-2.64, 2.45)	6.39 (-2.90, 15.05)
-1.51 (-6.78, 3.82)	1.60 (-2.06, 5.39)	-2.02 (-7.74, 3.97)	1.11 (-4.20, 6.61)	-0.89 (-5.42, 3.57)	-1.01 (-7.04, 5.18)	0.33 (-3.92, 4.66)	6.88 (-2.53, 15.68)
-1.33 (-5.97, 3.13)	1.75 (-0.95, 4.38)	-1.89 (-6.76, 3.38)	1.28 (-3.52, 6.00)	-0.75 (-4.50, 2.98)	-0.91 (-6.33, 4.67)	0.51 (-2.84, 3.77)	7.00 (-2.03, 15.57)
0.45 (-4.00, 4.63)	3.55 (1.13, 5.90)	-0.12 (-4.75, 4.71)	3.04 (-1.59, 7.53)	1.02 (-1.93, 3.92)	0.89 (-4.47, 6.24)	2.25 (-0.47, 5.07)	8.82 (-0.14, 17.19)
0.78 (-4.55, 5.92)	3.90 (0.23, 7.53)	0.26 (-5.33, 6.18)	3.43 (-1.96, 8.70)	1.37 (-3.04, 5.98)	1.25 (-4.75, 7.35)	2.63 (-1.52, 6.94)	9.16 (-0.15, 18.13)
-0.01 (-4.28, 3.88)	3.08 (1.19, 4.81)	-0.57 (-5.03, 4.06)	2.60 (-1.85, 6.76)	0.55 (-2.54, 3.56)	0.46 (-4.78, 5.53)	1.80 (-0.52, 4.03)	8.32 (-0.64, 16.60)
-0.78 (-6.83, 5.31)	2.31 (-2.40, 7.06)	-1.38 (-7.60, 5.27)	1.80 (-4.26, 7.90)	-0.21 (-5.52, 5.02)	-0.29 (-5.84, 5.17)	1.02 (-4.13, 6.29)	7.49 (-2.25, 17.12)
Pencilin	3.09 (-0.59, 6.84)	-0.55 (-6.18, 5.34)	2.63 (-2.93, 7.93)	0.58 (-3.91, 5.01)	0.47 (-5.53, 6.50)	1.84 (-2.31, 6.11)	8.34 (-1.08, 17.23)
	Placebo	-3.65 (-7.85, 0.89)	-0.47 (-4.45, 3.37)	-2.53 (-5.05, 0.08)	-2.63 (-7.39, 2.20)	-1.28 (-3.26, 0.77)	5.23 (-3.48, 13.40)
-3.09 (-6.84, 0.59)	Placebo	Probiotics	3.11 (-2.90, 8.88)	1.11 (-4.06, 6.09)	1.01 (-5.54, 7.36)	2.38 (-1.61, 6.18)	8.88 (-1.03, 18.07)
0.55 (-5.34, 6.18)			Prostaglandin E2	-2.03 (-6.67, 2.76)	-2.16 (-8.41, 4.01)	-0.78 (-5.12, 3.72)	5.71 (-3.54, 14.75)
-2.63 (-7.93, 2.93)	0.47 (-3.37, 4.45)	-3.11 (-8.88, 2.90)	Prostaglandin E2	Silver nitrate	Sucralose	Triamcinolone	Zinc
-0.58 (-5.01, 3.91)	2.53 (-0.08, 5.05)	-1.11 (-6.09, 4.06)					
-0.47 (-6.50, 5.53)	2.63 (-2.20, 7.39)	-1.01 (-7.36, 5.54)	2.16 (-4.01, 8.41)	0.09 (-5.37, 5.57)	Sucralose	1.39 (-3.86, 6.65)	7.89 (-2.04, 17.34)
-1.84 (-6.11, 2.31)	1.28 (-0.77, 3.26)	-2.38 (-6.18, 1.61)	0.78 (-3.72, 5.12)	-1.23 (-4.41, 1.87)		Triamcinolone	Zinc
-8.34 (-17.23, 1.08)	-5.23 (-13.40, 3.48)	-8.88 (-18.07, 1.03)	-5.71 (-14.75, 3.54)	-7.82 (-16.25, 1.24)	-7.89 (-17.34, 2.04)	-6.49 (-14.86, 2.44)	

Rank probability

Rank 1 is worst, rank N is best.

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17	Rank 18
Aloe	0	0.03	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.05	0.04	0.02
Chitosan	0.03	0.14	0.11	0.11	0.1	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0
Chlorhexidine	0	0.02	0.04	0.06	0.07	0.08	0.09	0.09	0.1	0.09	0.09	0.08	0.06	0.05	0.04	0.02	0.01	0
Curcumin	0.02	0.08	0.09	0.09	0.09	0.1	0.1	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0
Doxycycline	0.02	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.02
Glycyrrhiza	0.01	0.03	0.04	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01
Honey	0	0	0	0	0	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09	0.12	0.14	0.17	0.15	0.09
Insulin -liposomal gel	0	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.09	0.12	0.17	0.24
Laser	0	0	0	0	0	0.01	0.02	0.03	0.04	0.06	0.08	0.11	0.14	0.15	0.15	0.11	0.07	0.03
N-acetylcysteine	0.02	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.06	0.05	0.06	0.06	0.07	0.08	0.09
Penicillin	0	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.1	0.12	0.11
Placebo	0.02	0.2	0.28	0.23	0.14	0.08	0.03	0.02	0.01	0	0	0	0	0	0	0	0	0
Probiotics	0	0.01	0.02	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.08	0.1	0.14	0.23
Prostaglandin E2	0.05	0.22	0.12	0.09	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.01	0.01
Silver nitrate	0	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.09	0.11	0.11	0.1	0.08	0.06	0.04	0.02
Sucralate	0.01	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.1	0.12
Triamcinolone	0	0.01	0.04	0.08	0.12	0.14	0.15	0.13	0.11	0.08	0.06	0.03	0.02	0.01	0	0	0	0
Zinc	0.81	0.05	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0	0.01	0.01

Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	1.66 (1.01, 2.96)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Aloe.Chitosan	1.00
d.Chlorhexidine.Nacetylcysteine	1.00
d.Chlorhexidine.Sucralfate	1.00
d.Placebo.Aloe	1.00
d.Placebo.Chlorhexidine	1.00
d.Placebo.Doxycycline	1.00
d.Placebo.Glycyrrhiza	1.00
d.Placebo.Honey	1.00
d.Placebo.Insulinliposomalgel	1.00
d.Placebo.Laser	1.00
d.Placebo.Penicillin	1.00
d.Placebo.ProstaglandinE2	1.00
d,Placebo.Silvernitrate	1.00
d.Placebo.Triamcinolone	1.00
d.Placebo.Zinc	1.00
d.Triamcinolone.Curcumin	1.00
d.Triamcinolone.Probiotics	1.00
sd.d	1.00

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor : 2.5

2.Inconsistency Model

Summary estimates for Healing effect

The estimate values for healing effect are given as mean difference (MD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Aloe	1.01 (-2.48, 4.58)	-0.16 (-5.23, 4.88)	0.62 (-4.33, 5.44)	0.13 (-5.71, 5.88)	-0.04 (-5.19, 4.80)	-1.80 (-6.56, 2.80)	-2.21 (-8.00, 3.27)	-1.49 (-6.10, 3.13)	-0.63 (-7.18, 5.97)
-1.01 (-4.58, 2.48)	Chitosan	-1.17 (-6.08, 3.81)	-0.44 (-4.95, 3.95)	-0.88 (-6.57, 4.47)	-1.12 (-5.94, 3.65)	-2.82 (-7.32, 1.45)	-3.25 (-8.70, 2.17)	-2.54 (-6.76, 1.81)	-1.66 (-8.04, 4.76)
0.16 (-4.88, 5.29)	Chitinexdite	0.74 (-3.96, 5.56)	0.25 (-4.67, 5.10)	0.04 (-3.99, 4.10)	-1.68 (-5.60, 2.27)	-2.11 (-6.95, 2.89)	-1.37 (-4.94, 2.37)	-0.50 (-4.47, 3.64)	
-0.62 (-5.44, 4.33)	Cucurum	-0.74 (-5.56, 3.96)	-0.48 (-6.01, 4.91)	-0.70 (-5.18, 3.99)	-2.39 (-6.55, 1.70)	-2.83 (-8.25, 2.57)	-2.09 (-6.01, 1.88)	-1.21 (-7.62, 4.97)	
-0.13 (-5.88, 5.71)		0.48 (-4.91, 6.01)	Doxycyline	-0.19 (-4.95, 4.73)	-1.94 (-6.58, 2.79)	-2.35 (-7.71, 3.25)	-1.63 (-5.91, 2.97)	-0.75 (-7.05, 5.68)	
0.04 (-4.80, 5.19)		1.12 (-3.65, 5.94)	0.19 (-4.73, 4.95)	Glycyrrhiza	-1.73 (-5.51, 2.04)	-2.18 (-6.81, 2.58)	-1.42 (-4.84, 2.01)	-0.52 (-6.24, 5.17)	
1.80 (-2.80, 6.56)		2.82 (-1.45, 7.32)	1.94 (-2.79, 6.56)	Honey	-0.42 (-5.11, 4.27)	0.32 (-2.74, 3.59)	1.24 (-4.52, 6.85)		
2.21 (-3.27, 8.00)		3.25 (-2.17, 8.70)	2.83 (-2.57, 8.25)		Inulin- liposomal gel	0.73 (-3.55, 5.11)	1.61 (-4.74, 8.01)		
1.49 (-3.13, 6.10)		2.54 (-1.81, 6.76)	2.09 (-1.88, 6.01)	1.63 (-2.97, 5.91)	1.42 (-2.01, 4.84)	-0.32 (-3.59, 2.74)	-0.73 (-5.11, 3.55)	Laser	0.89 (-4.64, 6.24)
0.63 (-5.97, 7.18)		1.66 (-4.76, 8.04)	1.21 (-4.97, 7.62)	0.75 (-5.68, 7.05)	0.52 (-5.17, 6.24)	-1.24 (-6.85, 4.52)	-1.61 (-8.01, 4.74)	N-acetylcysteine	
1.44 (-4.20, 7.28)		2.49 (-2.97, 8.09)	2.07 (-3.35, 7.47)	1.61 (-3.91, 7.06)	1.40 (-3.32, 6.20)	-0.34 (-4.97, 4.22)	-0.79 (-6.21, 4.75)	-0.04 (-4.22, 4.43)	0.84 (-5.51, 7.12)
-2.05 (-5.66, 1.47)		-0.64 (-4.50, 3.29)	-1.80 (-4.70, 1.17)	-1.54 (-5.48, 2.33)	-1.74 (-4.54, 1.09)	-3.48 (-6.00, -0.85)	-3.90 (-7.65, -0.07)	-3.16 (-5.05, -1.09)	-2.25 (-7.30, 2.73)
1.87 (-3.96, 7.77)		2.93 (-2.49, 8.33)	1.76 (-3.74, 7.53)	2.02 (-4.25, 8.24)	1.80 (-3.61, 7.68)	0.09 (-4.95, 5.30)	-0.35 (-6.58, 5.89)	0.39 (-4.51, 5.67)	1.26 (-5.59, 8.35)
-1.18 (-6.94, 4.79)		-0.14 (-5.85, 5.61)	-1.28 (-6.38, 3.74)	-1.05 (-6.71, 4.56)	-1.23 (-6.14, 3.76)	-2.97 (-7.87, 1.87)	-3.43 (-9.00, 2.24)	-2.67 (-7.17, 2.01)	-1.81 (-8.29, 4.73)
0.90 (-4.07, 6.28)		1.94 (-2.94, 6.95)	1.52 (-3.14, 6.34)	1.03 (-4.03, 5.99)	0.85 (-3.37, 5.01)	-1.03 (-4.27, 2.26)	-1.32 (-6.18, 3.72)	-0.58 (-4.15, 3.15)	0.30 (-5.63, 6.20)
0.97 (-5.58, 7.65)		2.01 (-4.55, 8.46)	0.83 (-3.37, 5.04)	1.09 (-5.48, 7.55)	0.87 (-4.97, 6.76)	-0.85 (-6.70, 4.87)	-1.28 (-7.87, 5.15)	-0.55 (-6.17, 5.07)	0.34 (-5.51, 6.14)
-0.47 (-4.47, 3.66)		0.56 (-2.90, 4.01)	-0.60 (-4.48, 3.35)	-0.34 (-5.14, 4.24)	-0.53 (-4.21, 3.22)	-2.26 (-5.35, 0.76)	-2.69 (-7.26, 1.88)	-1.66 (-4.45, 1.36)	-1.08 (-6.78, 4.59)
-6.82 (-16.07, 2.44)		-5.79 (-14.87, 3.19)	-6.95 (-15.84, 1.71)	-6.70 (-15.91, 2.23)	-6.87 (-15.65, 1.76)	-8.62 (-17.39, -0.01)	-9.10 (-18.19, -0.05)	-8.31 (-16.94, 0.06)	-7.44 (-17.34, 2.22)

-1.44 (-7.28, 4.20)	2.05 (-1.47, 5.66)	-1.87 (-7.77, 3.96)	1.18 (-4.79, 6.94)	-0.90 (-6.28, 4.07)	-0.97 (-7.65, 5.58)	0.47 (-3.66, 4.47)	6.82 (-2.44, 16.07)
-2.49 (-8.09, 2.97)	0.64 (-3.29, 4.50)	-2.93 (-8.33, 2.49)	0.14 (-5.61, 5.85)	-1.94 (-6.95, 2.94)	-2.01 (-8.46, 4.55)	-0.56 (-4.01, 2.90)	5.79 (-3.19, 14.87)
-1.33 (-6.25, 3.47)	1.80 (-1.17, 4.70)	-1.76 (-7.53, 3.74)	1.28 (-3.74, 6.38)	-0.81 (-5.02, 3.41)	-0.83 (-5.04, 3.37)	0.60 (-3.35, 4.46)	6.95 (-1.71, 15.64)
-2.07 (-7.47, 3.35)	1.06 (-2.72, 4.74)	-2.49 (-7.47, 2.33)	0.58 (-4.86, 6.08)	-1.52 (-6.34, 3.14)	-1.60 (-7.75, 4.93)	-0.15 (-2.89, 2.63)	6.22 (-2.77, 15.20)
-1.61 (-7.06, 3.91)	1.54 (-2.33, 5.48)	-2.02 (-8.24, 4.25)	1.05 (-4.56, 6.71)	-1.03 (-5.99, 4.03)	-1.09 (-7.55, 5.48)	0.34 (-4.24, 5.14)	6.70 (-2.23, 15.91)
-1.40 (-6.20, 3.32)	1.74 (-1.09, 4.54)	-1.80 (-7.68, 3.61)	1.23 (-3.76, 6.14)	-0.85 (-5.01, 3.37)	-0.87 (-6.76, 4.97)	0.53 (-3.22, 4.21)	6.87 (-1.76, 15.65)
0.34 (-4.22, 4.97)	3.48 (0.85, 6.00)	-0.09 (-5.30, 4.95)	2.97 (-1.87, 7.87)	1.03 (-2.26, 4.27)	0.85 (-4.87, 6.70)	2.26 (-0.76, 5.35)	8.62 (0.01, 17.39)
0.79 (-4.75, 6.21)	3.90 (0.07, 7.65)	0.35 (-5.89, 6.58)	3.43 (-2.24, 9.00)	1.32 (-3.72, 6.18)	1.28 (-5.15, 7.87)	2.69 (-1.88, 7.26)	9.10 (0.05, 18.19)
0.04 (-4.43, 4.22)	3.16 (1.09, 5.05)	-0.39 (-5.67, 4.51)	2.67 (-2.01, 7.17)	0.58 (-3.15, 4.15)	0.55 (-5.07, 6.17)	1.66 (-1.36, 4.45)	8.31 (-0.06, 16.94)
-0.84 (-7.12, 5.51)	2.25 (-2.73, 7.30)	-1.26 (-8.35, 5.59)	1.81 (-4.73, 8.29)	-0.30 (-6.20, 5.63)	-0.34 (-6.14, 5.51)	1.08 (-4.59, 6.78)	7.44 (-2.22, 17.34)
Penicillin	3.13 (-0.73, 7.08)	-0.43 (-6.74, 5.76)	2.62 (-3.02, 8.24)	0.53 (-4.36, 5.56)	0.51 (-5.92, 7.07)	1.94 (-2.73, 6.65)	8.32 (-0.74, 17.43)
-3.13 (-7.08, 0.79)	Placebo	-3.55 (-8.51, 1.21)	-0.51 (-4.55, 3.63)	-2.59 (-5.64, 0.48)	-2.62 (-7.70, 2.69)	-1.07 (-3.76, 1.99)	5.13 (-2.97, 13.59)
0.43 (-5.76, 6.74)	3.55 (-1.21, 8.51)	Probiotics	3.09 (-3.28, 9.52)	0.96 (-4.51, 6.63)	0.94 (-6.02, 8.11)	2.35 (-1.73, 6.49)	8.72 (-0.63, 18.29)
-2.62 (-8.24, 3.02)	0.51 (-3.63, 4.55)	-3.09 (-9.52, 3.28)	Prostaglandin E2	-2.11 (-7.19, 3.13)	-2.12 (-8.71, 4.56)	-0.69 (-5.45, 3.98)	5.59 (-3.31, 15.02)
-0.53 (-5.56, 4.36)	2.59 (-0.48, 5.64)	-0.96 (-6.63, 4.51)	2.11 (-3.13, 7.19)	Silver nitrate	-0.02 (-6.06, 5.97)	1.38 (-2.49, 5.29)	7.75 (-0.99, 16.60)
-0.51 (-7.07, 5.92)	2.62 (-2.69, 7.70)	-0.94 (-8.11, 6.02)	2.12 (-4.56, 8.71)	0.02 (-5.97, 6.06)	Succalfac	1.46 (-4.55, 7.00)	7.71 (-1.86, 17.69)
-1.94 (-6.65, 2.73)	1.07 (-1.93, 3.76)	-2.35 (-6.49, 1.73)	0.69 (-3.98, 5.45)	-1.38 (-5.29, 2.49)	-1.46 (-7.00, 4.55)	Triamcinolone	6.33 (-2.30, 15.11)
-8.32 (-17.43, 0.74)	-5.13 (-13.59, 2.97)	-8.72 (-18.29, 0.63)	-5.59 (-15.02, 3.31)	-7.75 (-16.60, 0.99)	-7.71 (-17.68, 1.86)	-6.33 (-15.11, 2.30)	Zinc

Inconsistency Factors

Cycle	Median (95% CI)
Aloe, Chitosan, Honey, Placebo, Triamcinolone	-0.13 (-4.40, 2.70)
Honey, Laser, Placebo, Triamcinolone	-0.12 (-3.53, 2.49)
Honey, Placebo, Silver nitrate	-0.05 (-3.19, 2.66)
Honey, Placebo, Triamcinolone	0.07 (-2.51, 3.12)

Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	1.74 (1.04, 3.19)
Inconsistency Standard Deviation	1.25 (0.06, 4.94)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Aloe.Chitosan	1.00
d.Chitosan.Triamcinolone	1.00
d.Chlorhexidine.Nacetylcysteine	1.00
d.Chlorhexidine.Sucralfate	1.00
d.Honey.Placebo	1.00
d.Placebo.Chlorhexidine	1.00
d.Placebo.Doxycycline	1.00
d.Placebo.Glycyrrhiza	1.00
d.Placebo.Insulinliposomalgel	1.00
d.Placebo.Laser	1.00
d.Placebo.Penicilin	1.00
d.Placebo.ProstaglandinE2	1.00
d.Placebo.Silvernitrate	1.00
d.Placebo.Zinc	1.00
d.Triamcinolone.Curcumin	1.00
d.Triamcinolone.Honey	1.00
d.Triamcinolone.Probiotics	1.00
w.Aloe.Chitosan.Triamcinolone.Honey.Placebo	1.00
w.Honey.Placebo.Laser.Triamcinolone	1.00
w.Honey.Placebo.Sivernitrate	1.00
w.Honey.Placebo.Triamcinolone	1.00
sd.d	1.00
sd.w	1.00

Number of chains : 4
 Tuning iterations : 20,000
 Simulation iterations : 50,000
 Thinning interval : 10
 Inference samples : 10,000
 Variance scaling factor : 2.5

3. Node-splitting analysis

Node-splitting analysis of inconsistency

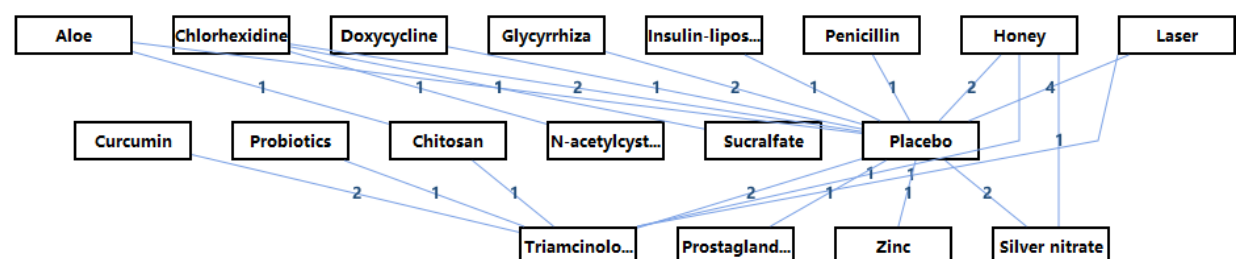
Inconsistency between direct and indirect estimates was estimated in the Node-Splitting Model. When P values is above 0.05 in a comparison, there is evidence of statistical inconsistency.

Name	Direct Effect	Indirect Effect	Overall	P-Value
Aloe, Chitosan	0.53 (-3.52, 4.64)	2.55 (-3.37, 8.80)	1.15 (-2.06, 4.38)	0.55
Aloe, Placebo	2.63 (-1.46, 6.74)	0.61 (-5.66, 6.72)	1.96 (-1.29, 5.26)	0.56
Chitosan, Triamcinolone	-1.12 (-5.09, 2.87)	0.98 (-5.10, 7.03)	-0.44 (-3.60, 2.75)	0.55
Honey, Silver nitrate	0.52 (-3.45, 4.52)	0.64 (-4.23, 5.67)	1.02 (-1.93, 3.92)	0.96
Honey, Triamcinolone	3.17 (-0.67, 7.09)	1.73 (-2.02, 5.56)	2.25 (-0.47, 5.07)	0.55
Laser, Placebo	3.28 (1.01, 5.26)	2.20 (-2.39, 6.89)	3.08 (1.19, 4.81)	0.64
Laser, Triamcinolone	1.11 (-2.81, 4.98)	2.26 (-1.19, 5.37)	1.80 (-0.52, 4.03)	0.62
Placebo, Triamcinolone	-1.02 (-3.67, 1.63)	-2.41 (-6.00, 1.23)	-1.28 (-3.26, 0.77)	0.49

4. Network structure

Network structure of sensitivity analysis

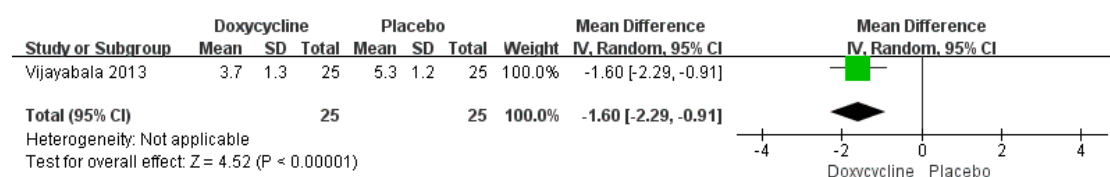
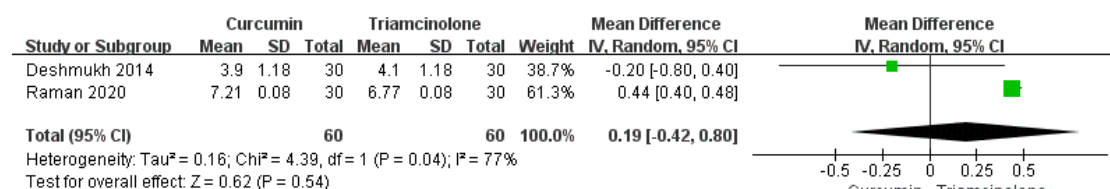
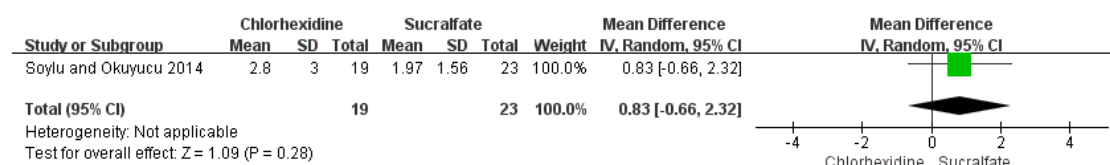
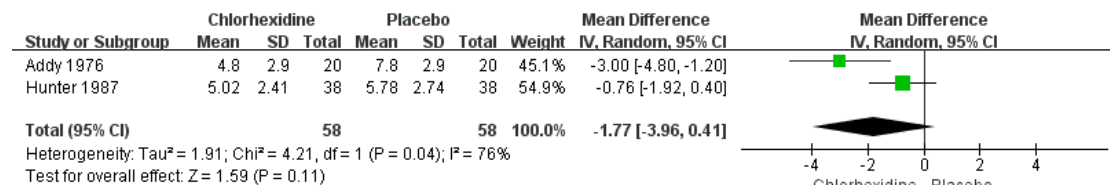
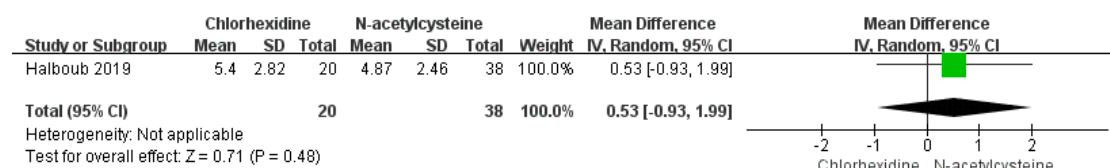
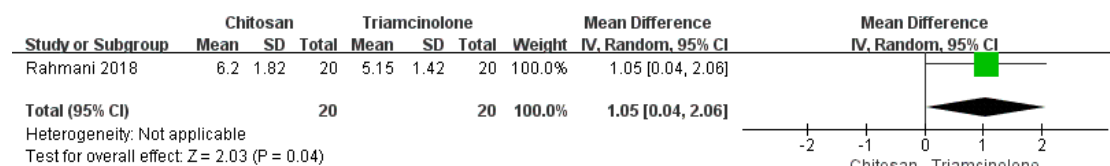
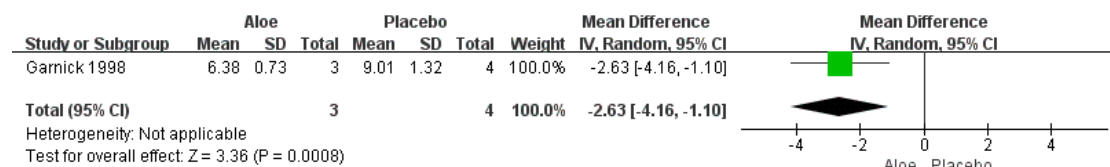
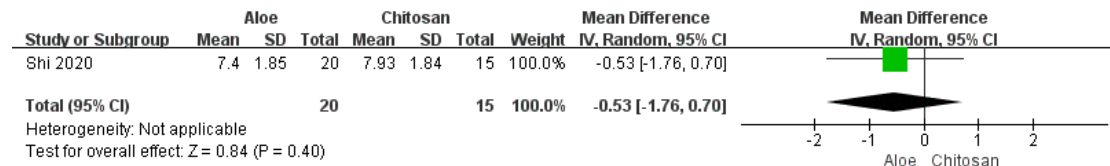
26 RCTs involving 18 local interventions were included in the sensitivity analysis considering the healing effect.

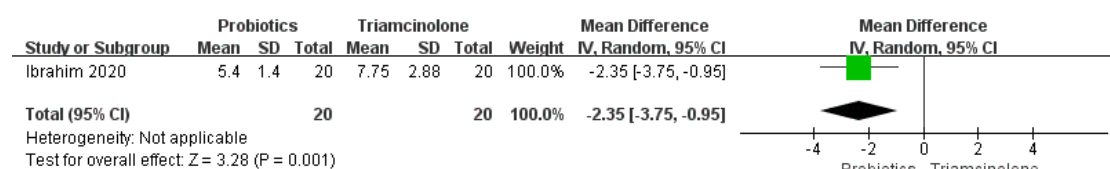
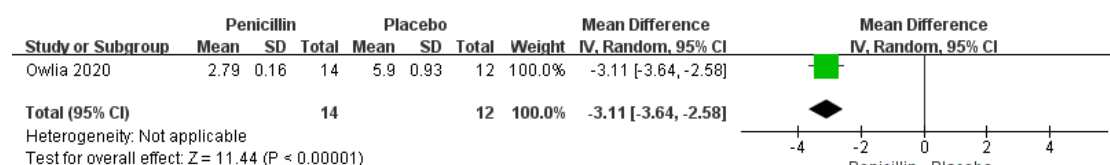
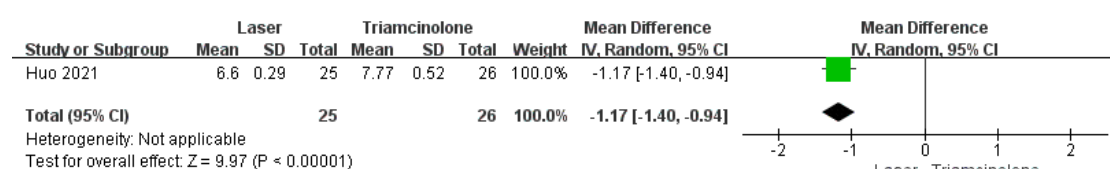
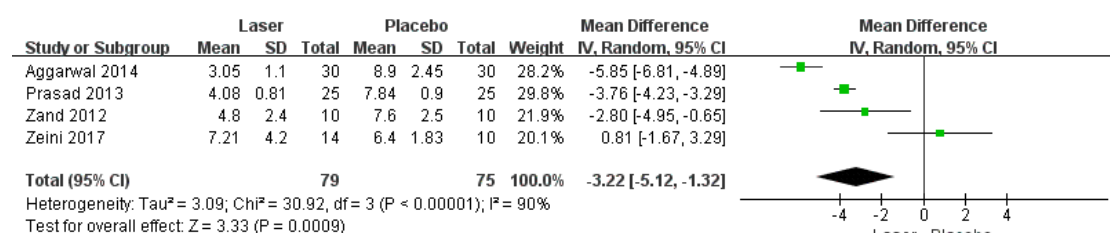
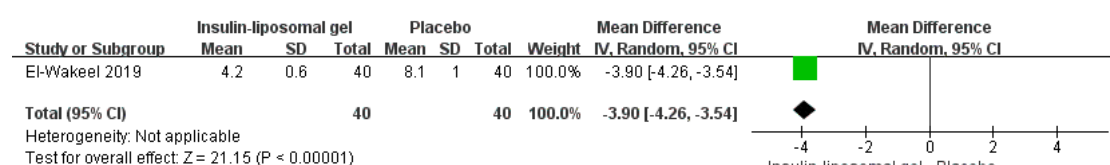
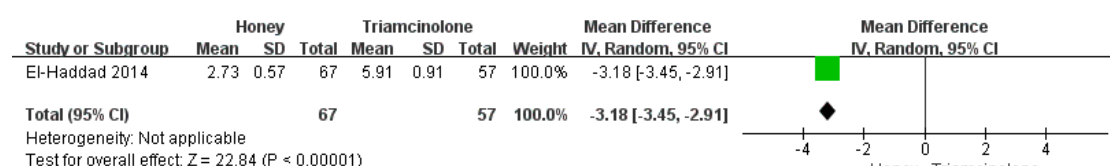
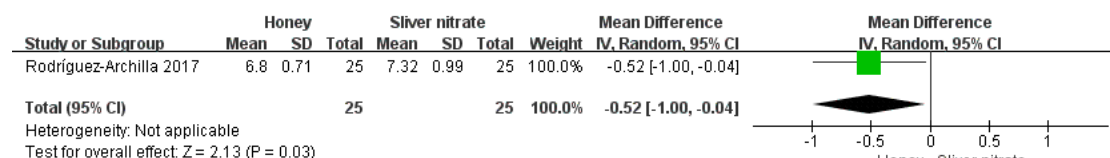
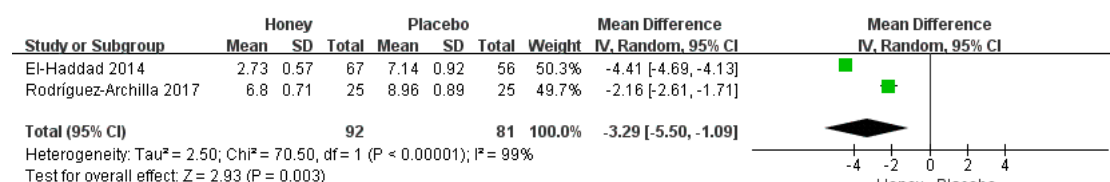


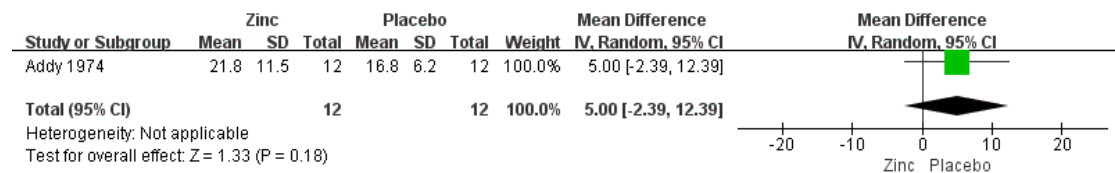
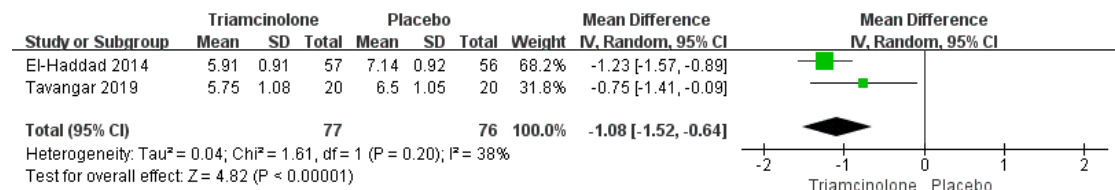
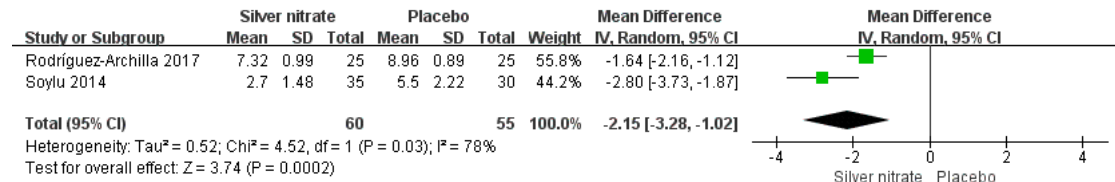
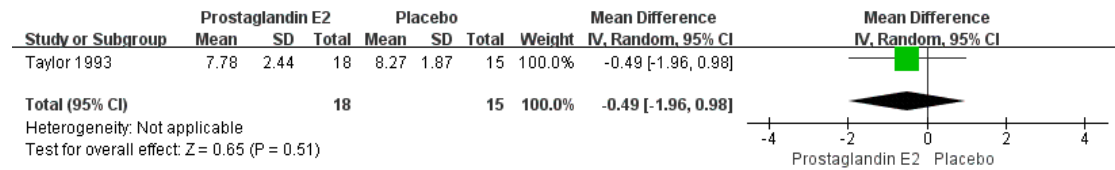
5. Pairwise meta-analysis

Pairwise meta-analysis of healing effect

Healing effect were measured by mean difference (MD) and 95% confidence interval (CI).







Comparison	NO. of included study	Heterogeneity (I ²)	Combined effect [MD (95%CI)]
Aloe vs			
Placebo	1	NA	-2.63 (-4.16, -1.10)
Chitosan	1	NA	-0.53 (-1.76, 0.70)
Chitosan vs			
Triamcinolone	1	NA	1.05 (0.04, 2.06)
Chlorhexidine vs			
Placebo	2	76%	-1.77 (-3.96, 0.41)
Sucralfate	1	NA	0.83 (-0.66, 2.32)
N-acetylcysteine	1	NA	0.53 (-0.93, 1.99)
Curcumin vs			
Triamcinolone	2	77%	0.19 (-0.42, 0.80)
Doxycycline vs			
Placebo	1	NA	-1.60 (-2.29, -0.91)
Glycyrrhiza vs			
Placebo	2	95%	-1.72 (-4.77, 1.32)
Honey vs			
Placebo	2	99%	-3.29 (-5.50, -1.09)
Triamcinolone	1	NA	-3.18 (-3.45, -2.91)
Sliver nitrate	1	NA	-0.52 (-1.00, -0.04)
Insulin-liposomal gel vs			
Placebo	1	NA	-3.90 (-4.26, -3.54)
Laser vs			
Placebo	4	90%	-3.22 (-5.12, -1.32)
Triamcinolone	1	NA	-1.17 (-1.40, -0.94)
Penicillin vs			
Placebo	1	NA	-3.11 (-3.64, -2.58)
Probiotics vs			
Triamcinolone	1	NA	-2.35 (-3.75, -0.95)
Prostaglandin E2 vs			
Placebo	1	NA	-0.49 (-1.96, 0.98)
Sliver nitrate vs			
Placebo	2	78%	-2.15 (-3.28, -1.02)
Triamcinolone vs			
Placebo	2	38%	-1.08 (-1.52, -0.64)
Zinc vs			
Placebo	1	NA	5.00 (-2.39, 12.39)

MD, mean difference; CI, confidence interval; NA, not applicable.

Chapter S2 Size-reducing effect

1.Consistency Model

Summary estimates for Size-reducing effect

The estimate values for size-reducing effect are given as mean difference (MD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Aalen	-0.03 (-57.26, 57.97)	17.88 (-36.40, 72.91)	7.17 (-65.84, 76.66)	-1.23 (-72.44, 68.94)	15.67 (-75.07, 105.97)	-29.90 (-101.72, 49.30)	9.18 (-47.48, 67.26)	19.40 (-44.75, 82.21)	-1.83 (-72.19, 69.65)
0.03 (-57.97, 57.26)	Alice	17.79 (-16.04, 50.64)	6.70 (-50.76, 61.33)	-1.27 (-58.06, 54.29)	15.01 (-62.84, 95.69)	-29.71 (-87.27, 29.15)	9.22 (-28.93, 47.25)	19.65 (-28.00, 65.65)	-1.21 (-58.77, 53.84)
-17.88 (-72.90, 38.40)		Anticoagulation	-11.00 (-64.44, 41.05)	-19.10 (-71.55, 33.01)	-2.77 (-79.47, 75.75)	-47.40 (-102.47, 9.26)	-8.65 (-41.13, 24.48)	1.26 (-35.76, 38.69)	-19.26 (-72.62, 32.21)
-7.17 (-76.66, 65.84)	-6.70 (-61.35, 50.76)	11.00 (-41.05, 64.44)							
1.23 (-68.54, 72.44)	12.77 (-54.29, 58.06)	19.10 (-33.01, 71.55)	7.90 (-63.20, 76.61)	Bleeding episode	16.72 (-70.83, 107.87)	-28.49 (-98.74, 44.52)	10.67 (-45.76, 68.50)	20.52 (-41.00, 82.58)	-0.45 (-69.16, 69.34)
-15.67 (-105.97, 75.07)	-15.01 (-95.88, 62.94)	2.77 (-75.05, 79.47)	-8.49 (-100.94, 80.50)	-16.72 (-107.87, 70.83)	Chest pain	-45.29 (-135.67, 46.81)	-6.10 (-87.56, 73.60)	4.17 (-80.38, 88.73)	-16.54 (-107.13, 72.53)
29.90 (-43.30, 101.72)	29.71 (-29.15, 67.27)	47.40 (-9.24, 102.47)	36.37 (-39.92, 106.70)	28.49 (-44.52, 98.74)		Cyclophosphamide	38.75 (-19.38, 97.28)	49.17 (-14.20, 109.45)	28.28 (-44.82, 97.76)
-9.18 (-67.26, 47.48)	-9.32 (-47.25, 28.39)	88.65 (-24.48, 41.13)	-2.65 (-59.94, 52.23)	-10.67 (-68.56, 45.76)	6.10 (-73.60, 87.56)	-38.75 (-97.28, 19.39)	Cyclophosphamide	10.05 (-37.03, 56.45)	-10.53 (-47.41, 44.51)
-19.40 (-82.51, 44.75)	-19.65 (-65.65, 26.00)	-1.26 (-38.69, 35.76)	-12.94 (-75.73, 49.24)	-20.52 (-82.58, 41.00)	-4.17 (-86.73, 80.39)	-49.17 (-109.45, 14.20)		-10.05 (-56.45, 37.03)	-21.23 (-81.51, 40.77)
1.83 (-49.65, 72.19)	12.1 (-53.84, 58.77)	19.26 (-32.21, 72.82)	8.24 (-63.11, 77.29)	0.45 (-49.34, 69.18)	16.54 (-72.53, 107.13)	-28.28 (-97.76, 44.82)	10.53 (-44.51, 67.41)	21.23 (-40.77, 82.51)	Dexamethasone
-6.87 (-72.82, 61.31)	-7.41 (-57.15, 46.00)	10.42 (-35.54, 59.21)	-0.60 (-52.36, 52.29)	-6.88 (-73.71, 58.65)	7.99 (-76.67, 96.50)	-36.67 (-106.40, 34.67)	1.79 (-46.73, 54.19)	11.92 (-44.60, 70.89)	
-11.60 (-68.86, 45.73)	-12.06 (-47.94, 25.67)	5.83 (-23.74, 37.06)	-5.04 (-61.23, 49.17)	-13.43 (-69.33, 41.77)	3.40 (-75.63, 83.83)	-41.42 (-98.62, 18.48)	-2.65 (-39.55, 35.11)	7.39 (-37.22, 52.40)	-13.49 (-68.04, 42.44)
-10.02 (-46.20, 51.88)	-10.43 (-46.21, 31.07)	7.47 (-22.72, 41.98)	-3.58 (-57.20, 51.58)	-11.63 (-66.41, 48.12)	5.04 (-74.15, 87.29)	-39.94 (-96.48, 22.29)	-1.30 (-36.36, 41.11)	8.85 (-34.43, 58.31)	-11.87 (-46.00, 47.10)
17.22 (-33.32, 67.83)	17.23 (-9.23, 45.09)	35.59 (-5.53, 54.72)	23.99 (-26.13, 73.07)	16.12 (-32.96, 64.10)	32.51 (-42.22, 107.67)	-12.55 (-63.50, 40.49)	26.41 (-1.26, 54.01)	36.62 (-1.38, 74.88)	15.97 (-30.50, 63.58)
2.25 (-56.96, 60.28)	2.16 (-35.90, 39.89)	20.01 (-13.33, 52.44)	8.80 (-48.03, 63.31)	0.68 (-55.89, 56.08)	17.01 (-62.51, 99.12)	-27.49 (-84.65, 31.88)	11.23 (-25.47, 47.39)	21.62 (-25.03, 67.18)	0.82 (-55.86, 55.23)
-21.38 (-109.18, 66.60)	-21.72 (-96.44, 57.46)	-3.90 (-75.60, 72.00)	-14.18 (-66.32, 38.53)	-22.48 (-107.41, 64.74)	-6.42 (-109.67, 101.42)	-51.12 (-139.16, 38.60)	-12.42 (-88.55, 65.13)	-1.97 (-43.33, 81.20)	-23.31 (-110.56, 65.25)
-8.47 (-63.23, 44.61)	-8.38 (-40.18, 21.59)	9.23 (-16.84, 33.32)	-2.15 (-54.59, 47.05)	-9.71 (-63.45, 41.50)	6.19 (-71.31, 85.16)	-38.42 (-92.95, 16.63)	0.59 (-24.02, 24.70)	10.77 (-31.50, 52.77)	-10.33 (-43.31, 41.22)
-5.64 (-71.49, 60.99)	-5.12 (-55.35, 45.43)	12.50 (-33.97, 57.97)	1.12 (-64.27, 65.66)	-6.54 (-73.94, 57.64)	10.30 (-77.01, 97.23)	-34.83 (-100.23, 32.98)	3.78 (-44.44, 53.88)	13.82 (-42.48, 70.77)	-7.19 (-71.97, 58.29)
5.73 (-67.81, 77.73)	5.43 (-52.30, 64.10)	23.88 (-32.84, 78.05)	11.95 (-81.04, 84.36)	4.75 (-68.54, 74.30)	20.72 (-67.66, 111.97)	-24.90 (-99.17, 52.62)	14.51 (-43.67, 72.64)	25.16 (-42.26, 89.57)	38.1 (-67.65, 75.79)

6.97 (-61.31, 72.82)	11.80 (-457.3, 69.85)	10.02 (-50.38, 66.29)	-1.72 (-67.83, 33.32)	-2.25 (-60.28, 56.96)	21.38 (-66.60, 109.18)	8.47 (-446.1, 63.29)	5.64 (-60.98, 71.49)	-5.73 (-77.73, 67.81)
7.41 (-46.00, 57.15)	12.06 (-25.67, 47.94)	10.43 (-30.07, 46.21)	-1.73 (-45.09, 9.23)	-2.16 (-39.89, 35.90)	21.72 (-57.46, 96.44)	8.98 (-215.9, 40.18)	5.12 (-45.43, 55.95)	-5.43 (-64.10, 52.30)
-10.4 (-59.21, 35.54)	-5.83 (-37.06, 23.74)	-7.47 (-41.98, 22.72)	-35.29 (-54.72, -15.59)	-20.01 (-52.44, 13.35)	3.90 (-72.00, 75.60)	-9.29 (-33.32, 16.84)	-12.50 (-57.97, 33.97)	-23.68 (-78.05, 32.84)
0.00 (-52.29, 52.98)	5.04 (-49.17, 61.23)	3.98 (-51.99, 57.20)	-23.99 (-73.07, 26.19)	-8.80 (-63.31, 46.03)	14.18 (-36.53, 66.32)	2.15 (-47.05, 54.59)	-1.12 (-65.66, 64.27)	-11.95 (-84.36, 61.04)
8.89 (-58.65, 73.71)	13.43 (-41.77, 69.33)	11.63 (-48.12, 66.41)	-16.12 (-64.10, 32.96)	-0.88 (-56.08, 55.89)	22.48 (-64.74, 107.41)	9.71 (-415.0, 63.45)	6.54 (-57.64, 73.34)	-4.79 (-74.30, 68.54)
-7.99 (-98.59, 76.67)	-3.40 (-83.83, 75.63)	-5.04 (-87.38, 74.15)	-32.51 (-107.67, 42.22)	-17.01 (-99.12, 62.51)	6.42 (-101.42, 109.67)	-6.19 (-85.16, 71.31)	-10.30 (-97.23, 77.01)	-20.72 (-111.97, 67.66)
36.67 (-34.67, 105.60)	41.42 (-18.48, 96.62)	39.94 (-22.29, 96.48)	12.25 (-40.49, 63.50)	27.19 (-31.88, 84.85)	51.12 (-38.60, 139.16)	38.42 (-16.63, 92.95)	34.93 (-32.98, 103.23)	24.90 (-52.62, 99.17)
-1.79 (-54.19, 46.73)	2.65 (-35.11, 39.55)	1.30 (-41.11, 36.38)	-26.41 (-54.91, 1.26)	-11.23 (-47.35, 25.47)	12.42 (-65.13, 86.55)	-0.59 (-24.70, 24.02)	-3.78 (-53.68, 44.44)	-14.51 (-72.64, 43.67)
-11.92 (-70.89, 44.60)	-7.39 (-52.40, 37.22)	-8.65 (-58.31, 34.43)	-36.62 (-74.65, 1.39)	-21.62 (-67.18, 25.03)	1.97 (-81.20, 83.33)	-10.77 (-52.17, 31.50)	-13.82 (-70.77, 42.48)	-25.16 (-89.87, 42.26)
8.70 (-56.76, 74.11)	13.48 (-42.64, 69.04)	11.87 (-47.10, 66.09)	-15.97 (-43.58, 33.50)	-0.82 (-55.23, 55.85)	23.31 (-65.25, 110.65)	10.33 (-41.22, 62.31)	7.19 (-58.25, 71.97)	-3.81 (-75.79, 67.65)
Dryopithec	4.57 (-45.18, 55.58)	3.16 (-47.74, 51.14)	-24.65 (-67.34, 21.10)	-9.32 (-59.09, 41.92)	13.83 (-59.86, 87.61)	1.41 (-419.1, 47.89)	-2.21 (-60.63, 60.18)	-12.99 (-81.42, 56.31)
-4.57 (-55.58, 45.18)	Dryopithec	-1.50 (-38.92, 30.74)	-29.07 (-54.48, -3.98)	-13.87 (-50.56, 23.48)	9.81 (-67.43, 85.69)	-3.31 (-33.43, 28.03)	-6.61 (-55.50, 43.81)	-16.90 (-73.88, 40.25)
-3.16 (-51.14, 47.74)	1.50 (-30.74, 38.92)	Use	-27.74 (-53.44, 3.04)	-12.15 (-48.57, 28.98)	11.28 (-63.83, 87.14)	-1.95 (-31.42, 34.44)	-4.86 (-52.98, 48.09)	-15.47 (-72.58, 45.54)
24.55 (-21.10, 67.34)	29.07 (3.58, 54.48)	27.74 (-3.04, 53.44)	Phebus	15.25 (-12.19, 43.58)	39.02 (-34.93, 109.89)	25.83 (7.50, 45.48)	22.69 (-20.03, 66.50)	11.96 (-39.02, 63.84)
9.32 (-41.92, 59.09)	13.87 (-23.48, 50.56)	12.15 (-28.98, 48.57)	-15.25 (-43.58, 12.19)	Phebus	23.97 (-53.41, 99.41)	10.59 (-16.93, 39.27)	7.80 (-43.32, 57.67)	-2.98 (-62.39, 54.98)
-13.83 (-87.01, 59.86)	-9.81 (-85.69, 67.43)	-11.28 (-87.14, 63.83)	-39.02 (-109.89, 34.93)	-23.97 (-98.44, 53.41)	Queen	-13.34 (-83.61, 62.27)	-15.69 (-98.68, 67.09)	-26.73 (-114.36, 63.88)
-1.41 (-47.89, 41.91)	3.31 (-29.03, 334.3)	1.95 (-34.44, 31.42)	-25.83 (-45.48, -7.93)	-10.59 (-39.27, 18.93)	13.34 (-42.27, 63.61)	Thomomys	-3.21 (-46.73, 40.25)	-14.20 (-69.92, 40.97)
2.31 (-60.18, 60.83)	6.61 (-43.81, 55.50)	4.86 (-49.09, 52.98)	-22.69 (-66.50, 20.03)	-7.80 (-57.67, 43.32)	13.69 (-67.09, 96.68)	3.21 (-40.25, 46.73)	Thomomys	-10.67 (-78.70, 56.04)
12.99 (-59.31, 81.42)	16.80 (-40.25, 73.88)	15.47 (-46.54, 72.59)	-11.96 (-63.84, 39.02)	2.88 (-54.98, 62.39)	26.73 (-83.38, 114.36)	14.20 (-40.97, 69.92)	10.67 (-56.04, 78.70)	Zinc

Rank probability

Rank 1 is best, rank N is worst.

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17	Rank 18	Rank 19
Alicin	0.05	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.06	0.06	0.06	0.06	0.07	0.09	0.07
Aloe	0	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.1	0.1	0.09	0.07	0.04	0.03	0.01
Amlexanox	0.03	0.08	0.13	0.14	0.13	0.12	0.1	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0	0	0	0	0
Benzylamine	0.02	0.09	0.08	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.03
Berberine gelatin	0.04	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.06	0.06	0.07	0.09	0.07
Chitosan	0.24	0.1	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.04	0.04	0.04	0.06	0.07
Cryotherapy	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.08	0.16	0.43
Curcumin	0.02	0.04	0.06	0.07	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.07	0.06	0.05	0.03	0.02	0.01	0.01	0
Dexamethasone	0.12	0.14	0.11	0.09	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0
Diosmectite	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.05	0.06	0.07	0.06	0.07	0.09	0.07
Doxycycline	0.04	0.06	0.07	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.02
Glycyrrhiza	0.02	0.05	0.07	0.08	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.05	0.03	0.03	0.01	0.01	0	0
Laser	0.02	0.05	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.04	0.03	0.02	0.01	0.01	0
Placebo	0	0	0	0	0	0	0	0	0	0	0	0.01	0.04	0.08	0.17	0.25	0.26	0.15	0.03
Probiotics	0	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.09	0.1	0.1	0.11	0.09	0.08	0.06	0.03	0.01
Quercetin	0.27	0.12	0.07	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
Triamcinolone	0	0.01	0.02	0.04	0.07	0.1	0.11	0.13	0.13	0.13	0.1	0.08	0.05	0.03	0.01	0	0	0	0
Thiester Glycerol Oxide	0.05	0.06	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.03
Zinc	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.07	0.07	0.06	0.08	0.11	0.11

Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	23.49 (16.60, 34.97)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Benzydamine.Doxycycline	1.01
d.Benzydamine.Placebo	1.06
d.Benzydamine.Quercetin	1.01
d.Benzydamine.Triamcinolone	1.08
d.Placebo.Allicin	1.00
d.Placebo.Aloe	1.01
d.Placebo.Amlexanox	1.01
d.Placebo.Berberinegelatin	1.01
d.Placebo.Chitosan	1.00
d.Placebo.Cryotherapy	1.10
d.Placebo.Curcumin	1.02
d.Placebo.Dexamethasone	1.04
d.Placebo.Diosmectite	1.00
d.Placebo.Glycyrrhiza	1.01
d.Placebo.Laser	1.33
d.Placebo.Probiotics	1.01
d.Placebo.TriesterGlycerolOxide	1.00
d.Placebo.Zinc	1.14
sd.d	1.24

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor : 2.5

2.Inconsistency Model

Summary estimates for Size-reducing effect

The estimate values for size-reducing effect are given as mean difference (MD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Alison	-0.72 (-53.32, 52.17)	1397 (-38.57, 67.58)	-4.00 (-82.92, 68.12)	-1.49 (-66.21, 64.92)	1339 (-79.57, 102.29)	-16.49 (-86.54, 53.17)	10.11 (-46.69, 65.05)	21.81 (-45.81, 85.28)	-2.17 (-66.45, 63.22)
072 (-52.17, 53.32)	Alison	1475 (-19.56, 49.47)	-2.22 (-68.76, 56.12)	-0.62 (-51.40, 49.27)	1517 (-62.27, 92.42)	-15.41 (-72.96, 40.13)	10.90 (-25.62, 46.30)	22.32 (-30.67, 73.20)	-0.97 (-51.94, 50.41)
-1397 (-67.58, 38.57)	-14.75 (-49.47, 19.96)	Amoxicillin	-16.29 (-41.75, 65.45)	-15.53 (-67.01, 34.12)	0.20 (-79.63, 76.88)	-30.45 (-89.12, 25.55)	-4.27 (-40.04, 32.93)	8.57 (-39.60, 50.89)	-15.77 (-67.22, 35.56)
4007 (-68.12, 82.92)	2.22 (-56.12, 68.76)	16.29 (-41.75, 65.45)	benzoylpenicillin	1.53 (-68.55, 79.55)	18.53 (-75.86, 114.12)	-12.86 (-90.59, 68.23)	13.25 (-42.68, 76.36)	25.60 (-37.75, 89.40)	2.32 (-70.73, 78.55)
1497 (-64.92, 66.21)	0.62 (-49.27, 51.40)	15.33 (-34.12, 67.01)	-1.53 (-79.55, 68.59)	benzene propan	15.70 (-72.21, 103.11)	-15.09 (-83.95, 52.93)	11.09 (-42.90, 64.83)	22.75 (-41.26, 84.48)	-0.63 (-61.79, 63.22)
-13399 (-102.29, 79.57)	-15.17 (-92.42, 62.27)	-0.20 (-76.88, 79.63)	-18.53 (-114.12, 75.86)	-15.70 (-103.11, 72.21)	Cefixime	-30.59 (-123.11, 60.34)	-4.21 (-84.42, 76.10)	7.25 (-79.95, 94.01)	-15.89 (-101.03, 69.84)
1649 (-53.17, 96.54)	15.41 (-40.51, 72.96)	30.45 (-25.55, 89.12)	12.86 (-89.23, 90.59)	15.09 (-52.93, 83.85)	30.59 (-60.34, 123.11)	Cephalexin	26.62 (-32.47, 84.89)	38.05 (-32.19, 108.23)	14.73 (-52.32, 83.80)
-1011 (-65.05, 46.69)	-10.90 (-46.30, 25.82)	4.27 (-32.98, 40.04)	-13.25 (-76.36, 42.88)	-11.09 (-64.83, 42.90)	4.21 (-76.10, 84.42)	-26.62 (-84.89, 32.47)	Cefuroxime	12.32 (-43.12, 62.14)	-11.91 (-68.25, 43.24)
-2181 (-85.28, 45.81)	-22.32 (-73.20, 30.67)	-8.57 (-50.89, 39.60)	-25.60 (-89.40, 37.75)	-22.75 (-84.49, 41.25)	-7.25 (-94.01, 79.59)	-38.05 (-108.23, 32.19)	-12.32 (-62.14, 43.12)	Dexamethasone	-23.49 (-86.16, 42.48)
217 (-63.22, 66.45)	0.97 (-50.41, 51.94)	15.77 (-35.56, 67.22)	-2.32 (-79.55, 70.79)	0.63 (-63.22, 61.79)	15.59 (-69.84, 101.03)	-14.73 (-83.80, 52.32)	11.91 (-43.24, 66.25)	22.49 (-42.46, 86.16)	Doxemetic
-7.99 (-70.14, 58.01)	-8.23 (-56.81, 41.96)	6.34 (-41.55, 55.62)	-10.62 (-71.71, 43.48)	-8.98 (-71.77, 54.58)	6.85 (-79.70, 93.21)	-24.20 (-92.15, 44.32)	2.50 (-44.16, 49.12)	14.47 (-49.72, 75.85)	-9.08 (-71.17, 54.84)
-3.50 (-61.45, 53.89)	-4.99 (-44.59, 38.94)	10.27 (-23.42, 44.26)	-6.84 (-80.34, 58.73)	-5.07 (-60.41, 51.41)	11.13 (-71.06, 90.56)	-20.69 (-81.19, 41.15)	5.64 (-36.57, 55.18)	18.05 (-34.86, 71.08)	-5.35 (-60.46, 52.08)
-1887 (-73.86, 37.19)	-19.41 (-56.96, 18.51)	-4.54 (-37.60, 27.47)	-21.43 (-92.77, 39.62)	-20.12 (-73.05, 32.44)	-4.36 (-84.73, 73.89)	-35.70 (-93.94, 23.44)	-9.19 (-47.36, 31.63)	3.65 (-51.16, 54.13)	-20.15 (-79.98, 32.27)
1740 (-29.12, 63.69)	16.73 (-8.12, 41.34)	35.58 (-4.93, 55.89)	12.66 (-55.83, 73.99)	16.03 (-28.51, 59.88)	31.75 (-42.37, 105.33)	0.99 (-51.00, 52.44)	18.86 (-16.14, 50.56)	37.20 (-4.07, 79.30)	15.75 (-28.80, 60.26)
115 (-54.11, 57.76)	0.28 (-38.28, 38.39)	15.54 (-24.09, 52.81)	-1.98 (-68.18, 56.45)	-0.39 (-54.70, 55.28)	15.25 (-65.14, 95.36)	-15.40 (-76.57, 44.71)	11.12 (-25.07, 46.82)	29.07 (-33.56, 77.06)	-0.50 (-55.21, 54.20)
-1118 (-97.67, 80.96)	-11.98 (-49.29, 66.31)	2.71 (-75.08, 83.81)	-15.44 (-62.03, 30.84)	-12.90 (-97.73, 74.35)	2.93 (-103.10, 109.37)	-27.28 (-119.68, 63.81)	-1.57 (-76.30, 75.72)	11.36 (-49.59, 88.80)	-13.18 (-100.52, 76.15)
-7.28 (-59.14, 45.30)	-8.08 (-36.67, 22.32)	7.08 (-27.76, 36.15)	-10.30 (-63.71, 40.01)	-8.57 (-57.37, 41.16)	7.04 (-69.55, 84.39)	-23.56 (-79.30, 31.64)	2.99 (-20.73, 23.98)	15.06 (-36.04, 61.44)	-8.87 (-58.77, 41.32)
-7.07 (-69.48, 67.11)	-8.01 (-56.13, 41.71)	7.12 (-41.70, 55.88)	-10.38 (-60.76, 53.48)	-8.44 (-70.35, 54.89)	7.04 (-79.11, 92.55)	-23.28 (-91.76, 44.16)	2.96 (-43.34, 49.10)	15.00 (-47.54, 75.89)	-8.61 (-57.15, 53.97)
896 (-52.01, 72.96)	7.83 (-43.63, 57.80)	22.42 (-28.82, 74.99)	4.31 (-66.98, 72.83)	7.27 (-56.29, 70.06)	23.10 (-62.63, 109.07)	-7.44 (-77.90, 60.34)	18.19 (-34.76, 72.21)	29.78 (-31.88, 91.42)	6.51 (-56.24, 70.80)

7.59 (-80.1, 70.14)	3.50 (-53.69, 61.45)	18.87 (-37.13, 73.86)	-17.40 (-36.63, 29.12)	-1.15 (-57.76, 54.11)	11.18 (-30.56, 97.67)	7.32 (-45.30, 59.14)	7.07 (-57.71, 69.48)	-8.96 (-72.96, 55.01)
8.23 (-41.96, 56.81)	4.99 (-38.94, 44.99)	19.41 (-18.51, 56.96)	-16.73 (-41.34, 8.12)	-0.28 (-38.39, 38.28)	11.98 (-66.31, 89.29)	8.08 (-22.32, 38.67)	8.01 (-41.71, 56.13)	-7.83 (-57.80, 43.63)
-6.34 (-55.62, 41.95)	-10.27 (-44.26, 23.42)	4.54 (-27.47, 37.00)	-35.39 (-56.89, -14.89)	-15.54 (-52.81, 24.09)	-2.71 (-63.81, 75.09)	-7.08 (-36.15, 22.76)	-7.12 (-56.88, 41.70)	-22.42 (-74.99, 29.82)
10.62 (-43.48, 71.71)	6.84 (-58.73, 80.34)	21.43 (-39.82, 92.77)	-12.66 (-75.59, 55.83)	1.98 (-56.45, 68.18)	15.44 (-30.84, 62.23)	10.30 (-40.01, 68.71)	10.39 (-53.48, 80.76)	-4.31 (-72.63, 56.98)
8.98 (-54.54, 71.77)	5.07 (-51.41, 60.41)	20.12 (-32.44, 73.05)	-16.03 (-59.58, 28.51)	0.99 (-55.28, 54.70)	12.90 (-74.35, 97.73)	8.57 (-41.16, 57.37)	8.44 (-54.89, 70.35)	-7.27 (-70.06, 55.29)
-6.85 (-93.21, 79.70)	-11.13 (-90.95, 71.06)	4.36 (-73.98, 84.73)	-31.75 (-105.53, 42.37)	-15.25 (-95.36, 55.14)	-2.93 (-109.37, 103.10)	-7.04 (-84.39, 69.55)	-7.04 (-92.55, 79.11)	-23.10 (-109.07, 62.83)
24.20 (-44.32, 92.15)	20.09 (-41.15, 81.19)	36.70 (-23.44, 90.94)	-0.99 (-52.44, 51.00)	15.40 (-44.71, 76.57)	27.28 (-63.21, 119.69)	22.58 (-31.64, 79.80)	23.28 (-44.16, 91.76)	7.44 (-60.34, 77.80)
-2.50 (-49.12, 44.16)	-5.64 (-55.18, 36.57)	9.19 (-31.63, 47.36)	-18.86 (-59.56, 18.14)	-11.12 (-46.82, 25.07)	1.37 (-75.75, 76.30)	-2.99 (-25.98, 20.73)	-2.96 (-48.10, 43.34)	-18.19 (-72.21, 34.76)
-14.47 (-75.95, 49.72)	-18.05 (-71.08, 34.98)	-3.85 (-54.13, 51.16)	-37.20 (-78.38, 4.07)	-23.07 (-77.06, 33.96)	-11.36 (-88.80, 69.59)	-15.06 (-61.44, 36.04)	-15.00 (-75.59, 47.54)	-29.78 (-91.42, 31.86)
9.09 (-54.84, 71.17)	5.53 (-52.08, 60.46)	20.15 (-32.27, 73.98)	-15.75 (-60.26, 28.80)	0.50 (-54.20, 55.21)	13.16 (-76.15, 100.32)	8.67 (-41.32, 58.77)	8.61 (-53.57, 71.15)	-65.1 (-70.80, 56.54)
Droopychne	-3.84 (-60.83, 51.16)	11.26 (-40.84, 62.13)	-23.54 (-76.44, 27.93)	-8.94 (-56.63, 40.59)	3.53 (-72.08, 78.69)	-0.38 (-40.07, 39.80)	-0.26 (-55.73, 53.23)	-16.20 (-77.95, 47.11)
3.84 (-51.16, 60.83)	Chyrtchne	14.79 (-22.09, 52.53)	-32.90 (-56.66, -8.77)	-5.96 (-48.55, 44.75)	7.62 (-77.50, 88.96)	2.68 (-33.79, 46.23)	2.91 (-51.19, 59.04)	-12.17 (-69.11, 44.90)
-11.76 (-62.13, 40.84)	-14.79 (-52.53, 22.09)	Line1	-28.03 (-55.09, 1.06)	-20.20 (-59.67, 22.52)	-7.33 (-30.43, 73.07)	-13.67 (-48.48, 20.01)	-12.21 (-41.68, 39.20)	-27.31 (-80.58, 26.99)
23.54 (-27.93, 76.44)	32.90 (67.7, 55.66)	28.03 (-1.66, 55.09)	Duckto	13.37 (-44.1, 38.67)	28.82 (-48.71, 103.16)	22.58 (-13.00, 61.29)	22.62 (-27.95, 74.79)	8.92 (-35.87, 52.90)
8.94 (-40.59, 56.69)	5.96 (-44.75, 48.55)	20.20 (-22.52, 59.67)	-13.37 (-39.67, 14.41)	Picktocks	12.76 (-65.88, 88.53)	8.20 (-20.54, 37.16)	7.88 (-40.76, 56.42)	-7.20 (-61.90, 46.09)
-3.53 (-78.69, 72.08)	-7.62 (-88.96, 77.50)	7.33 (-73.07, 90.43)	-28.82 (-103.16, 48.71)	-12.76 (-88.53, 65.58)	Queen	-4.19 (-76.07, 69.39)	-4.33 (-84.26, 76.74)	-19.23 (-105.10, 65.19)
0.38 (-39.80, 40.07)	-2.58 (-46.23, 33.79)	13.67 (-30.01, 48.48)	-22.58 (-61.23, 13.00)	-8.20 (-37.18, 20.54)	4.19 (-69.39, 76.07)	Thunrochone	-0.11 (-40.90, 41.00)	-15.55 (-65.31, 33.96)
0.26 (-59.23, 59.73)	-2.91 (-59.04, 51.19)	12.21 (-39.20, 61.63)	-22.62 (-74.79, 27.95)	-7.88 (-38.42, 40.76)	4.33 (-78.74, 84.28)	0.11 (-41.00, 40.90)	Teater Gyroed Cude	-15.73 (-77.69, 47.32)
16.20 (-47.11, 77.95)	12.17 (-44.90, 69.11)	27.31 (-39.98, 90.58)	-8.92 (-52.90, 35.87)	7.20 (-46.09, 61.90)	19.23 (-65.19, 105.10)	15.55 (-33.96, 65.31)	15.73 (-47.32, 77.69)	Zinc

Inconsistency Factors

Cycle	Median (95% CI)
Aloe, Amlexanox, Placebo, Triamcinolone	2.20 (-18.83, 32.03)
Aloe, Curcumin, Placebo, Triamcinolone	-5.03 (-48.66, 15.75)
Aloe, Amlexanox, Dexamethasone, Placebo, Triamcinolone	-0.77 (-35.63, 31.63)
Aloe, Amlexanox, Glycyrrhiza, Placebo, Triamcinolone	8.03 (-10.93, 48.21)
Aloe, Amlexanox, Laser, Placebo, Triamcinolone	-5.38 (-43.79, 16.27)
Aloe, Placebo, Probiotics, Triamcinolone	-1.52 (-34.62, 23.45)
Aloe, Placebo, Triamcinolone	-0.68 (-36.74, 31.29)
Aloe, Placebo, Triamcinolone	-0.68 (-36.74, 31.29)
Aloe, Placebo, Triamcinolone	-0.68 (-36.74, 31.29)
Amlexanox, Laser, Triamcinolone	-0.81 (-37.48, 25.92)

Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	21.14 (14.27, 31.66)
Inconsistency Standard Deviation	12.81 (1.61, 45.29)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Allicin.Placebo	1.00
d.Aloe.Triamcinolone	1.00
d.Amlexanox.Dexamethasone	1.53
d.Amlexanox.Glycyrrhiza	1.01
d.Benzydamine.Doxycycline	1.72
d.Benzydamine.Quercetin	1.00
d.Glycyrrhiza.Laser	1.01
d.Placebo.Aloe	1.00
d.Placebo.Berberinegelatin	1.00
d.Placebo.Chitosan	1.00
d.Placebo.Cryotherapy	1.00
d.Placebo.Diosmectite	1.00
d.Placebo.Zinc	103
d.Triamcinolone.Amlexanox	1.02
d.Triamcinolone.Benzydamine	1.80
d.Triamcinolone.Curcumin	1.00
d.Triamcinolone.Probiotics	1.00
d.Triamcinolone.TriesterGlycerolOxide	1.00
w.Aloe.Placebo.Amlexanox.Triamcinolone	1.01
w.Aloe.Placebo.Curcumin.Triamcinolone	1.00
w.Aloe.Placebo.Dexamethasone.Amlexanox.Triamcinolone	1.06
w.Aloe.Placebo.Glycyrrhiza.Amlexanox.Triamcinolone	1.00
w.Aloe.Placebo.Laser.Amlexanox.Triamcinolone	1.01
w.Aloe.Placebo.Prpbiotics.Triamcinolone	1.00
w.Aloe.Placebo.Triamcinolone	1.01
w.Aloe.Placebo.Triamcinolone	1.01
w.Aloe.Placebo.Triamcinolone	1.01
w.Amlexanox.Laser.Triamcinolone	1.03
sd.d	1.00
sd.w	1.01

Number of chains : 4
 Tuning iterations : 20,000
 Simulation iterations : 50,000
 Thinning interval : 10
 Inference samples : 10,000
 Variance scaling factor : 2.5

3. Node-splitting analysis

Node-splitting analysis of inconsistency

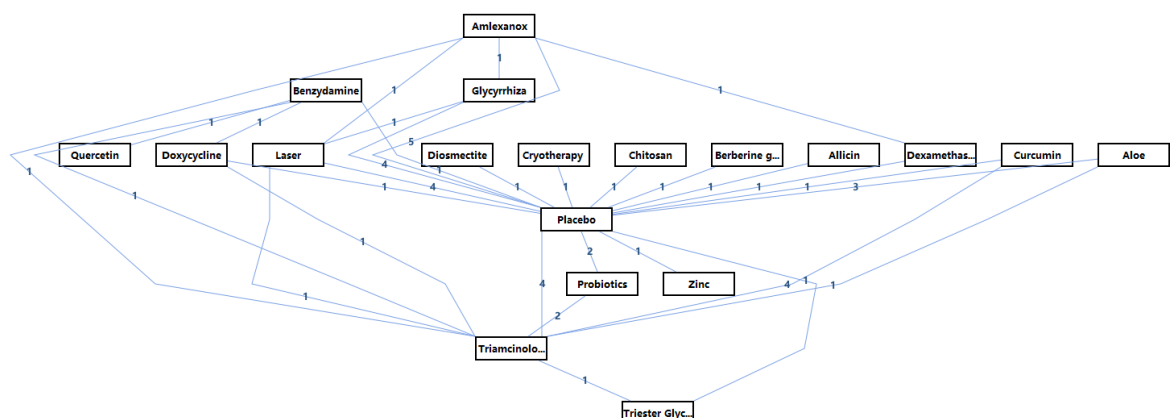
Inconsistency between direct and indirect estimates was estimated in the Node-Splitting Model. When P values is above 0.05 in a comparison, there is evidence of statistical inconsistency.

Name	Direct Effect	Indirect Effect	Overall	P-Value
Aloe, Triamcinolone	10.21 (-40.60, 60.46)	4.55 (-31.80, 43.91)	8.38 (-21.59, 40.18)	0.85
Amlexanox, Dexamethasone	12.53 (-43.51, 79.80)	-3.44 (-62.35, 53.60)	1.26 (-35.76, 38.69)	0.67
Amlexanox, Glycyrrhiza	-13.76 (-68.65, 39.83)	-4.21 (-44.62, 35.59)	-5.83 (-37.06, 23.74)	0.76
Amlexanox, Laser	10.51 (-40.36, 60.36)	-24.58 (-72.00, 13.79)	-7.47 (-41.98, 22.72)	0.26
Amlexanox, Placebo	-43.87 (-67.14, -20.94)	-19.63 (-51.37, 13.55)	-35.29 (-54.72, -15.53)	0.2
Amlexanox, Triamcinolone	8.63 (-39.59, 55.83)	-18.98 (-47.01, 10.06)	-9.29 (-33.32, 16.84)	0.32
Benzydamine, Placebo	-20.20 (-76.55, 34.13)	-24.22 (-78.47, 32.21)	-23.99 (-73.07, 26.19)	0.92
Benzydamine, Triamcinolone	5.34 (-63.88, 65.60)	2.60 (-81.48, 67.53)	2.15 (-47.05, 54.59)	0.85
Curcumin, Placebo	-2.16 (-49.56, 44.59)	-36.72 (-69.53, -4.83)	-26.41 (-54.91, 1.26)	0.22
Curcumin, Triamcinolone	-8.02 (-35.04, 19.46)	27.96 (-25.49, 81.28)	-0.59 (-24.70, 24.02)	0.23
Dexamethasone, Placebo	-32.35 (-87.66, 24.74)	-37.62 (-94.74, 21.31)	-36.62 (-74.85, 1.39)	0.9
Glycyrrhiza, Laser	22.88 (-23.37, 69.23)	-18.36 (-55.30, 18.14)	-1.50 (-38.92, 30.74)	0.16
Laser, Placebo	-36.29 (-63.60, -7.19)	-34.32 (-72.05, 3.79)	-27.74 (-53.44, 3.04)	0.92
Laser, Triamcinolone	6.70 (-52.76, 63.20)	-9.90 (-43.36, 25.94)	-1.95 (-31.42, 34.44)	0.69
Placebo, Probiotics	10.48 (-24.65, 45.32)	18.10 (-37.81, 65.62)	15.25 (-12.19, 43.58)	0.81
Placebo, Triamcinolone	30.78 (1.50, 61.86)	26.78 (-4.03, 57.58)	25.83 (7.91, 45.48)	0.84
Probiotics, Triamcinolone	5.09 (-33.75, 44.69)	9.61 (-30.68, 49.79)	10.59 (-16.93, 39.27)	0.87

4. Network structure

Network structure of sensitivity analysis

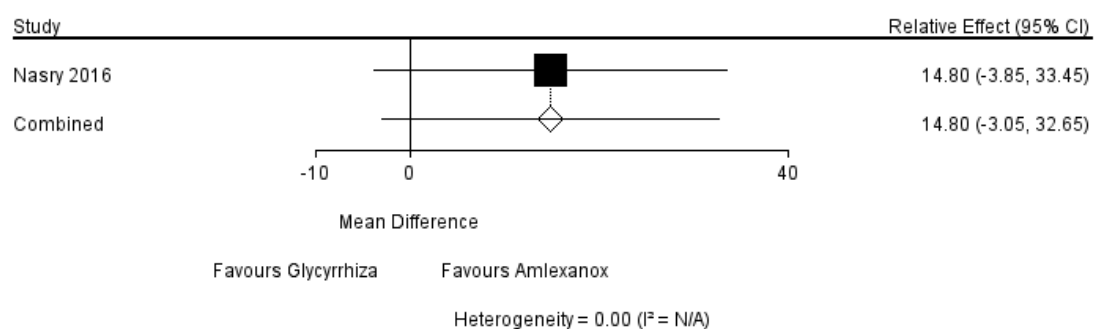
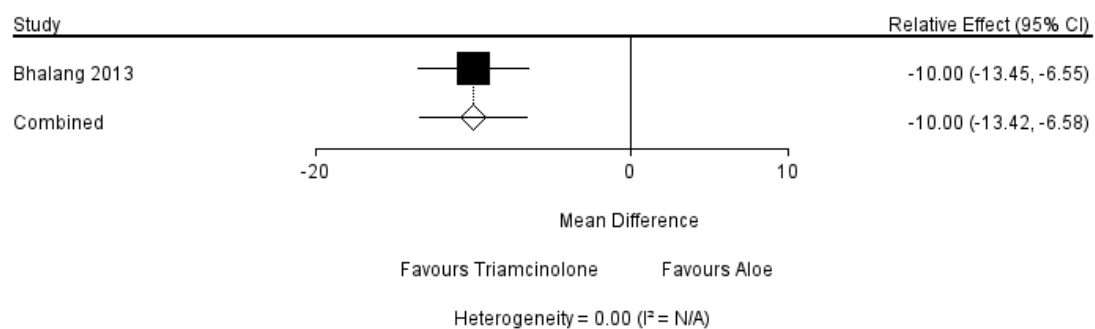
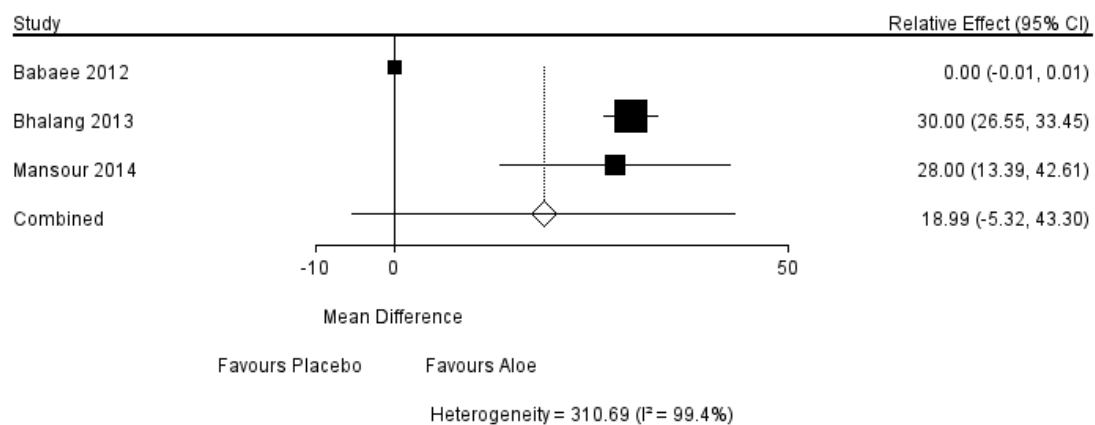
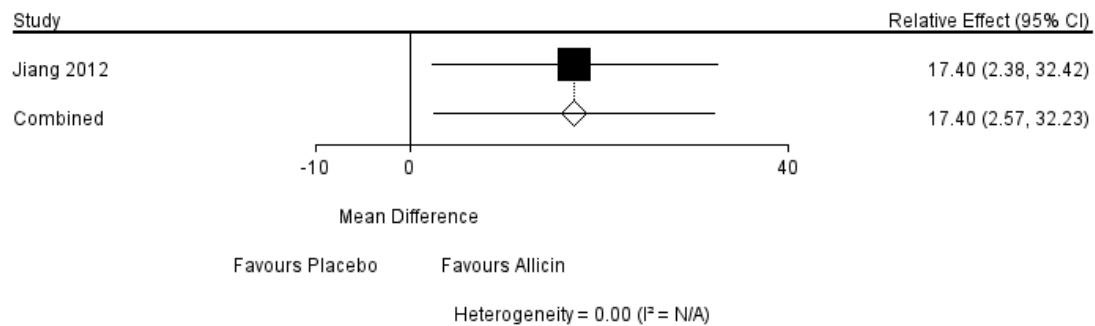
37 RCTs involving 19 local interventions were included in the sensitivity analysis considering the size-reducing effect.

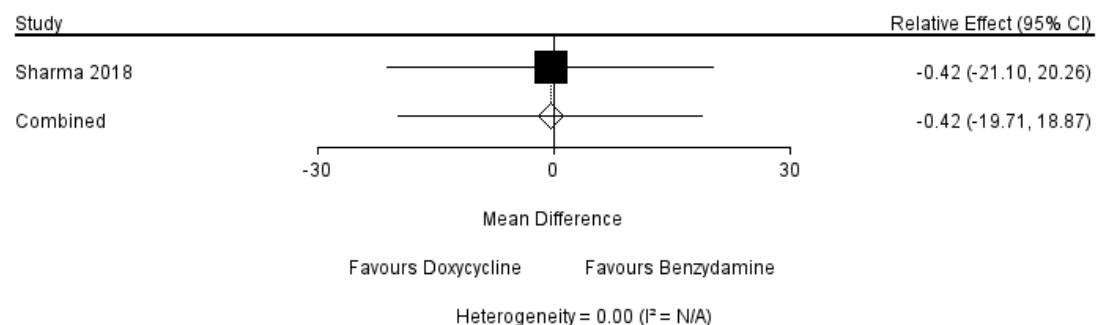
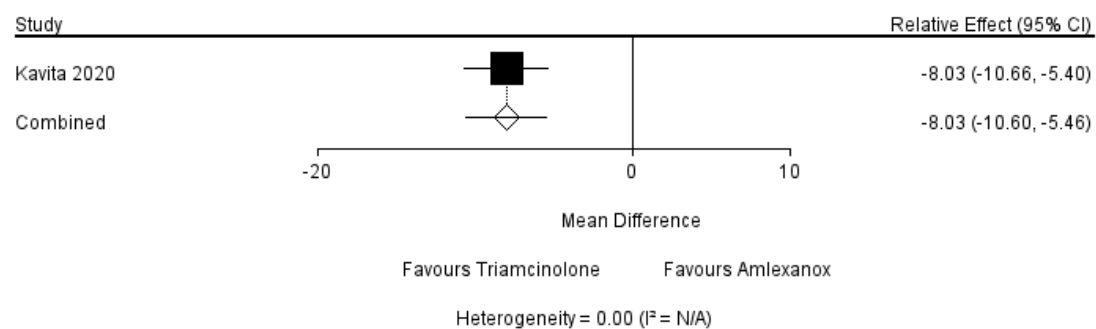
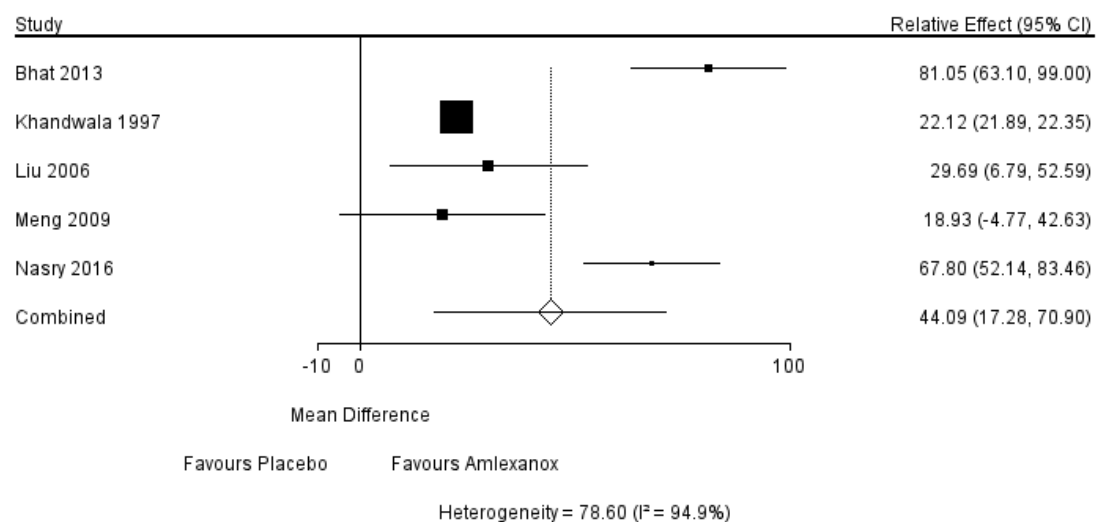
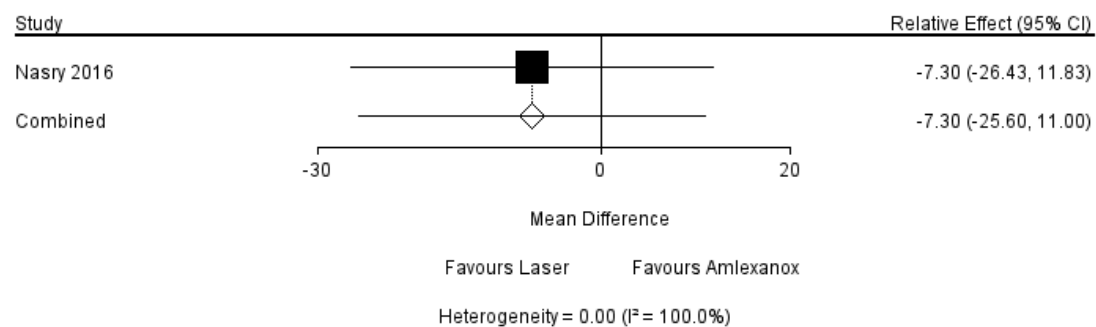


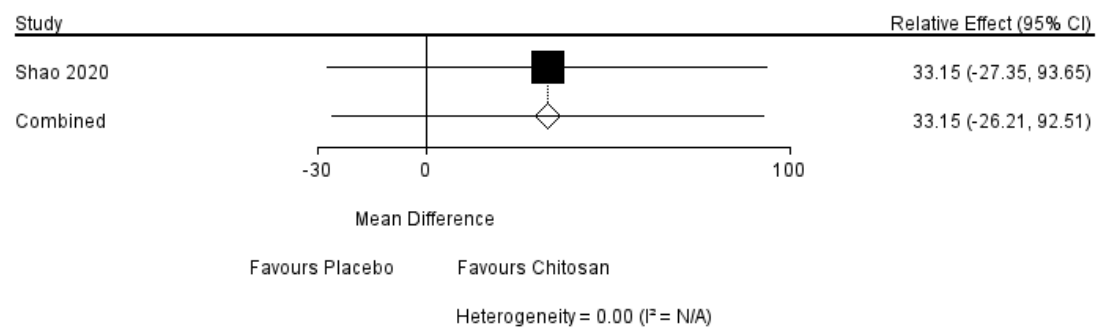
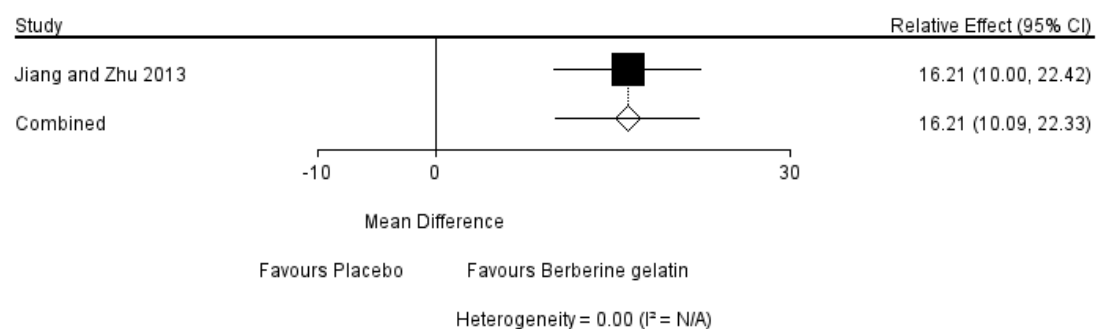
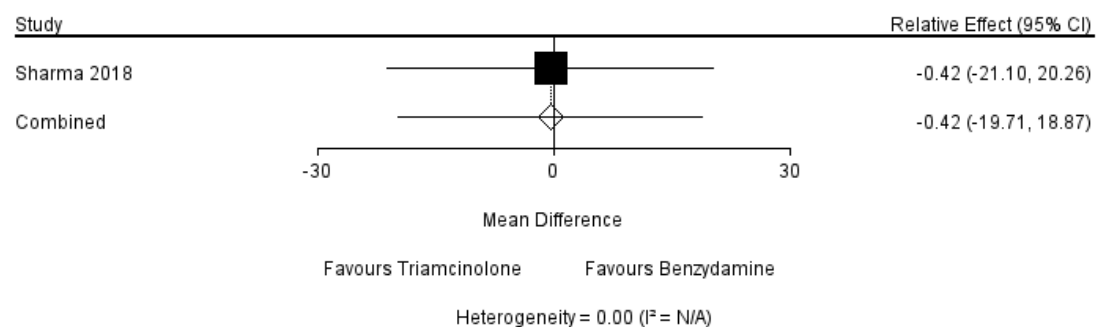
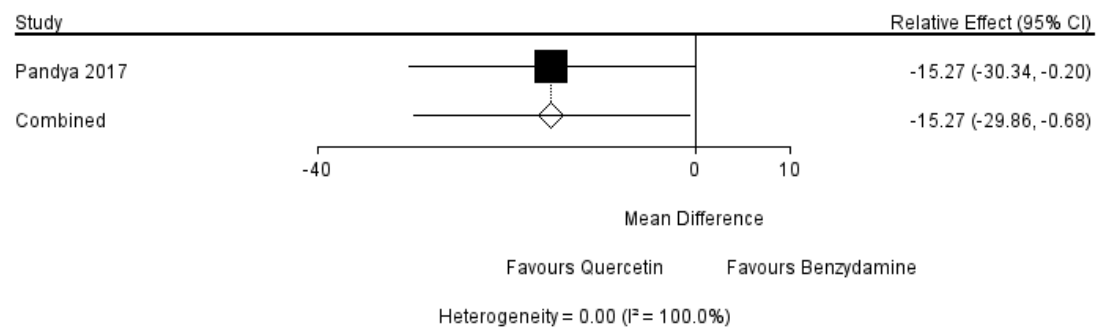
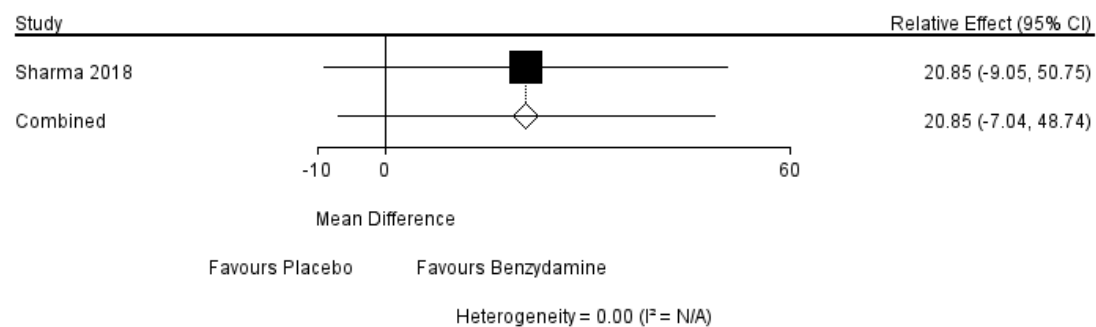
5. Pairwise meta-analysis

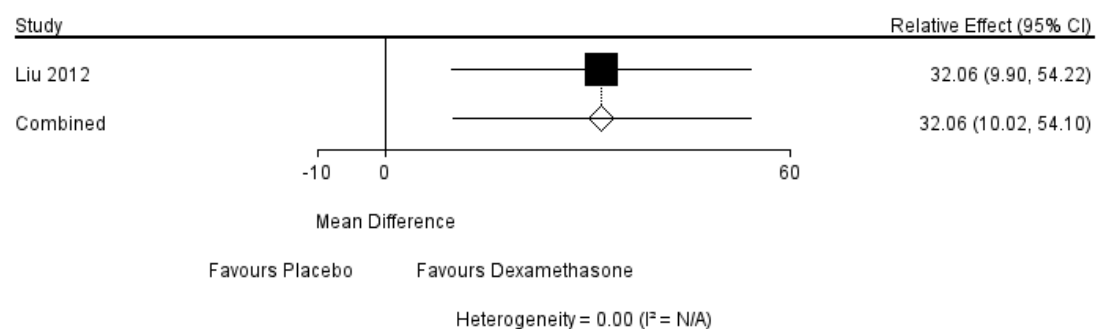
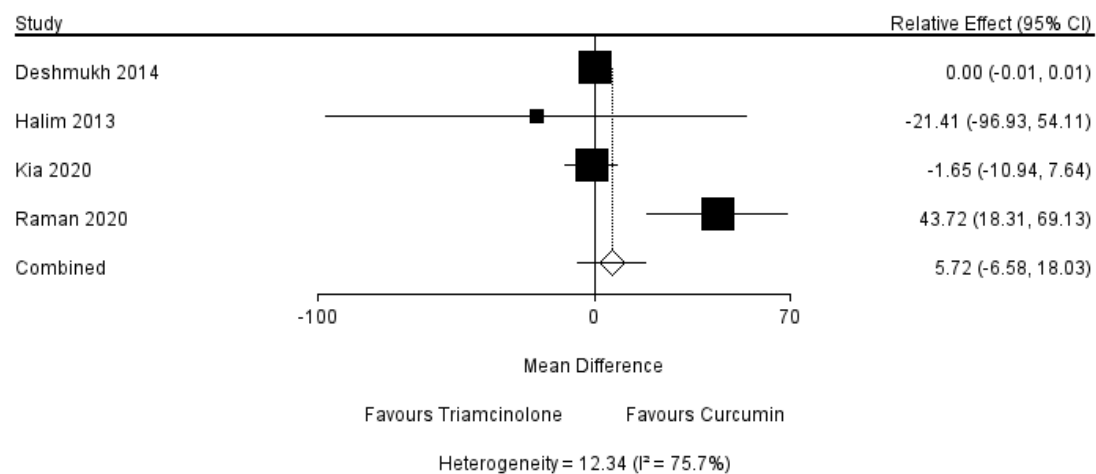
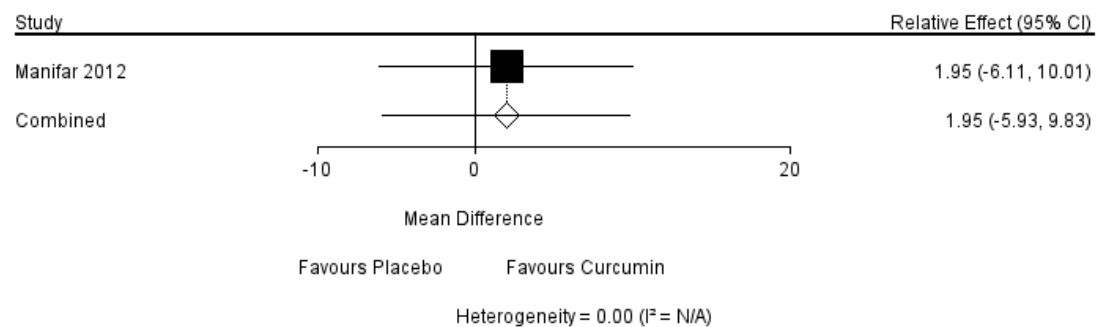
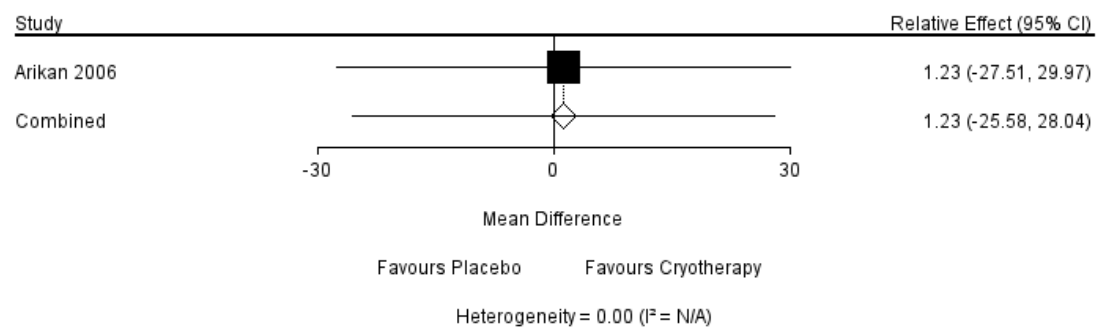
Pairwise meta-analysis of size-reducing effect

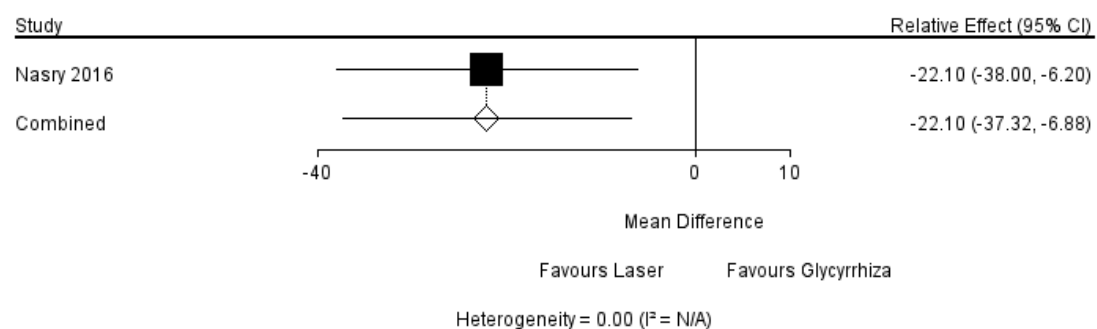
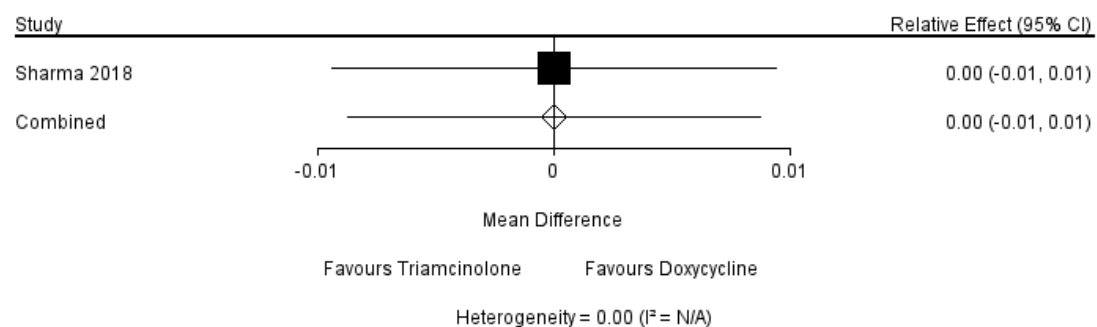
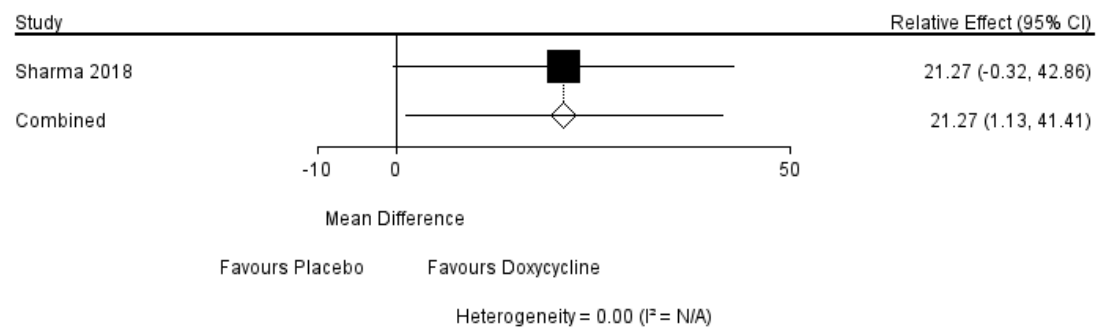
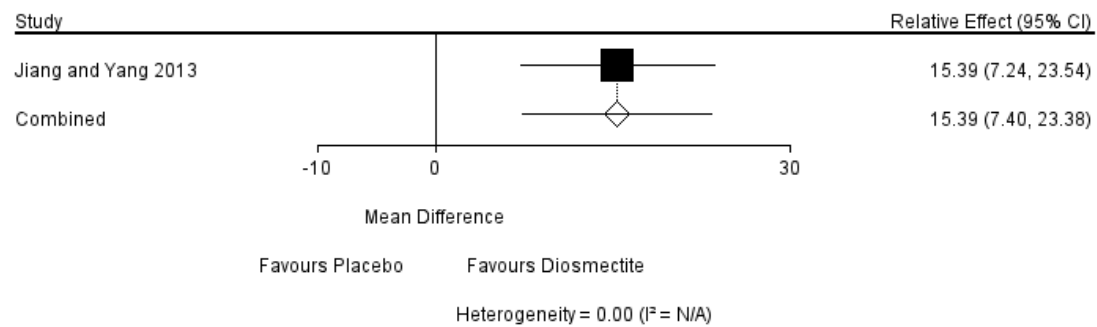
Size-reducing effect were measured by mean difference (MD) and 95% confidence interval (CI).

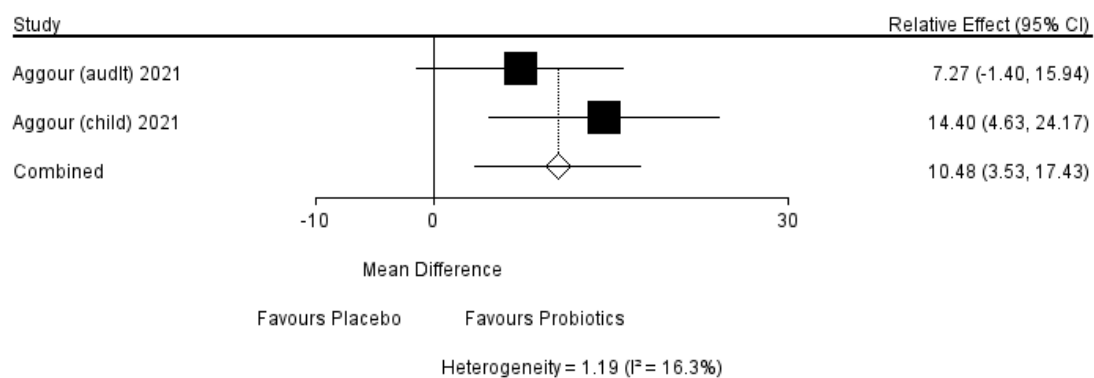
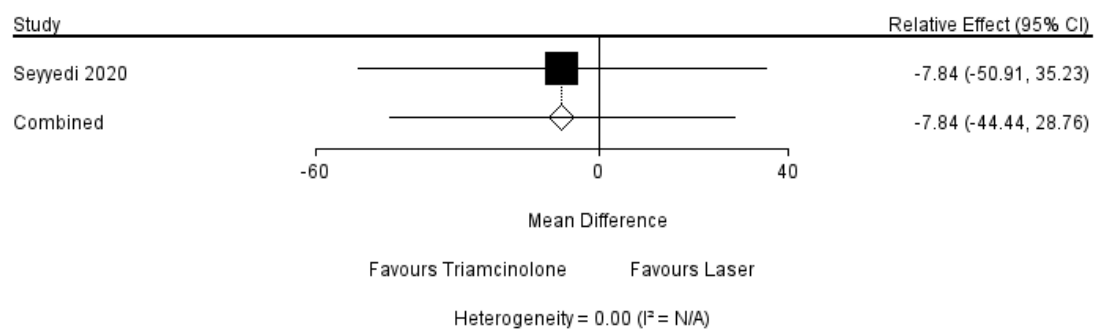
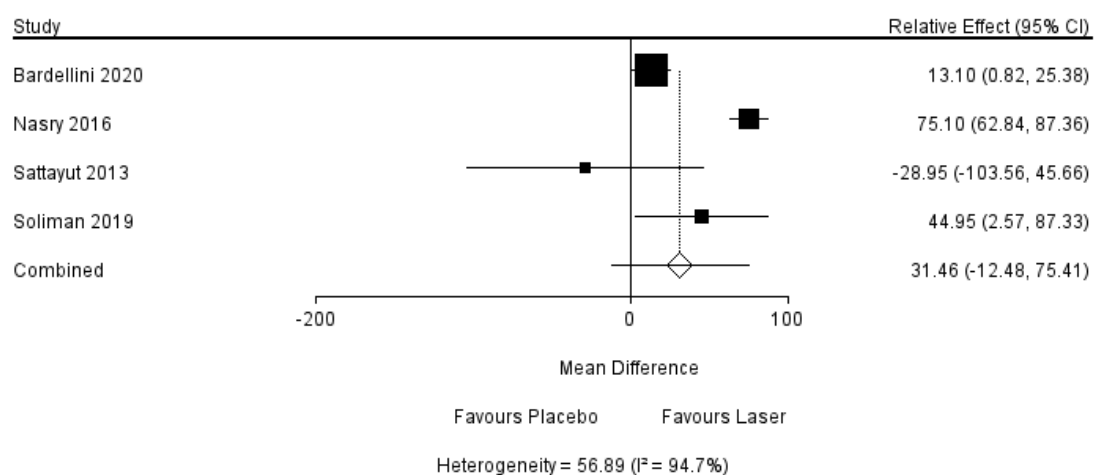
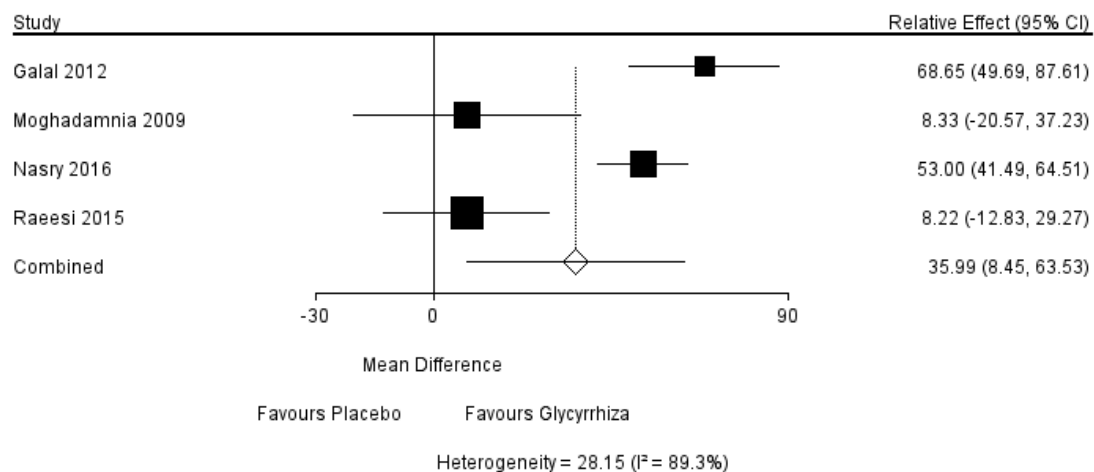


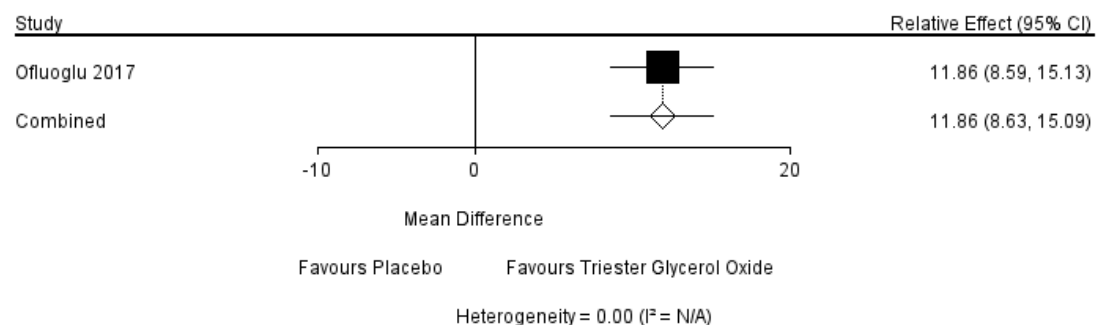
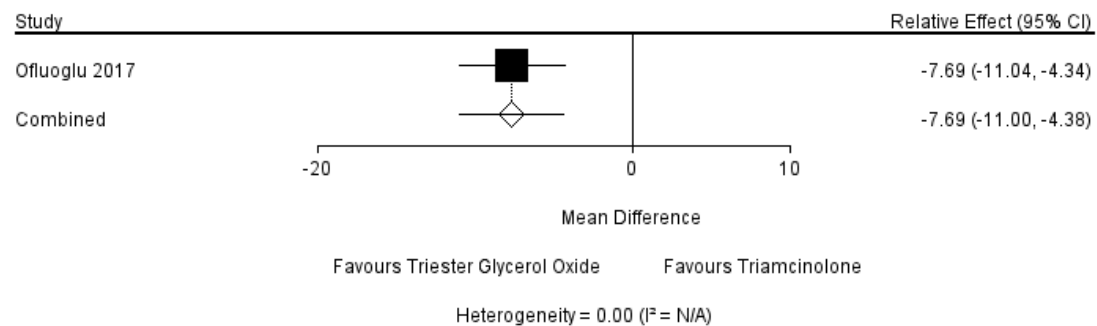
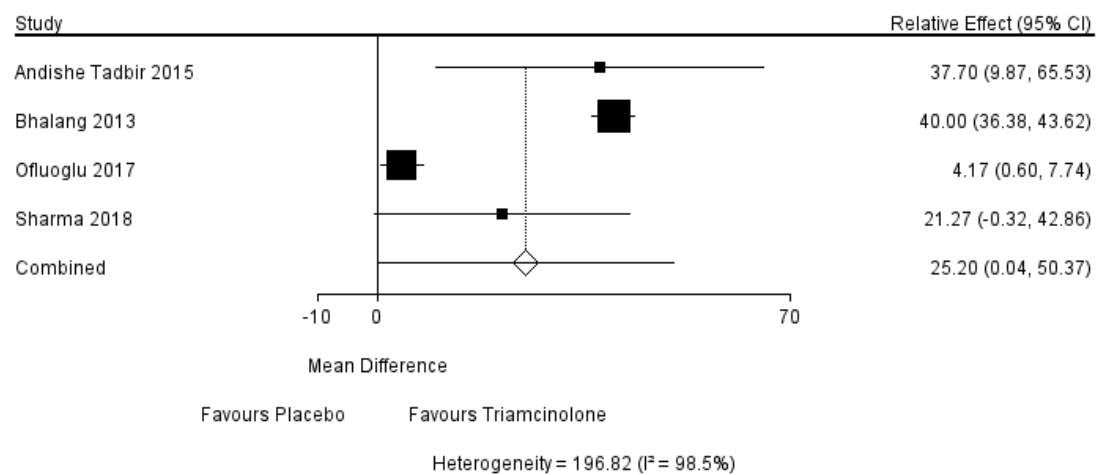
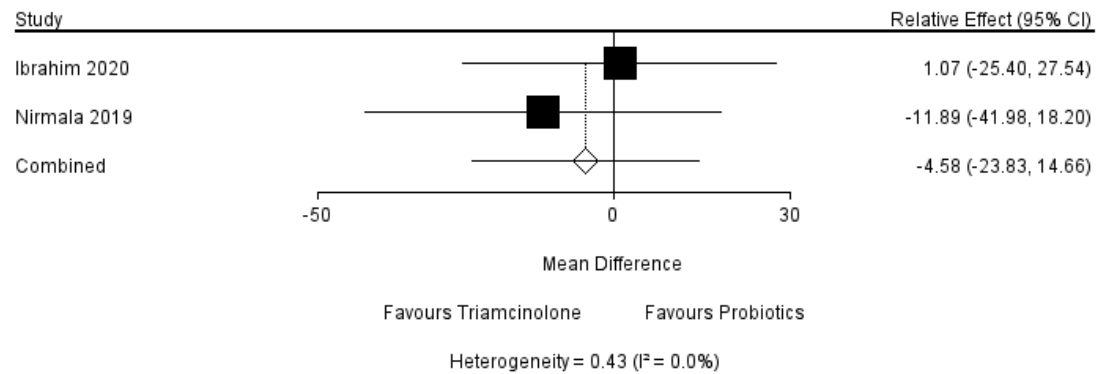


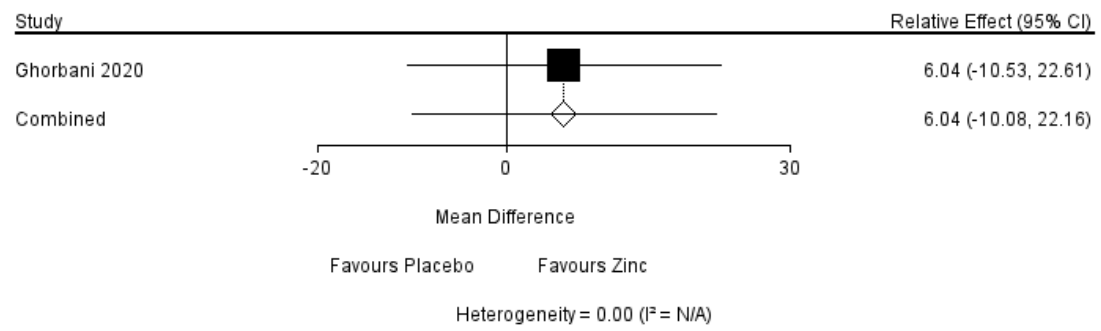












Comparison	NO. of included study	Heterogeneity (I ²)	Combined effect [MD (95%CI)]
Allicin vs			
Placebo	1	NA	17.40 (2.57, 32.23)
Aloe vs			
Placebo	3	99.4%	18.99 (-5.32, 43.30)
Triamcinolone	1	NA	-10.00 (-13.42, -6.58)
Amlexanox vs			
Glycyrrhiza	1	NA	14.80 (-3.05, 32.65)
Laser	1	NA	-7.30 (-25.60, 11.00)
Placebo	5	95%	44.09 (17.28, 70.90)
Triamcinolone	1	NA	-8.03 (-10.60, -5.46)
Benzydamine vs			
Placebo	1	NA	20.85 (-7.04, 48.74)
Triamcinolone	1	NA	-0.42 (-19.71, 18.87)
Quercetin	1	NA	-15.27 (-29.86, -0.68)
Doxycycline	1	NA	-0.42 (-19.71, 18.87)
Berberine gelatin vs			
Placebo	1	NA	16.21 (10.09, 22.33)
Chitosan vs			
Placebo	1	NA	33.15 (-26.21, 92.51)
Cryotherapy vs			
Placebo	1	NA	1.23 (-25.58, 28.04)
Curcumin vs			
Placebo	1	NA	1.95 (-5.93, 9.83)
Triamcinolone	4	75.7%	5.72 (-6.58, 18.03)
Dexamethasone vs			
Placebo	1	NA	32.06 (10.02, 54.10)
Diosmectite vs			
Placebo	1	NA	15.39 (7.40, 23.38)
Doxycycline vs			
Placebo	1	NA	21.27 (1.13, 41.41)
Triamcinolone	1	NA	0 (-0.01, 0.01)
Glycyrrhiza vs			
Laser	1	NA	-22.10 (-37.32, -6.88)
Placebo	4	89.3%	35.99 (8.45, 63.53)
Laser vs			
Placebo	4	94.7%	31.46 (-12.48, 75.41)
Triamcinolone	1	NA	-7.84 (-44.44, 28.76)
Probiotics vs			
Triamcinolone	2	0%	-4.58 (-23.83, 14.66)
Placebo	2	16.3%	10.48 (3.53, 17.43)
Triamcinolone vs			
Triester Glycerol Oxide	1	NA	-7.69 (-11.00, -4.38)
Placebo	4	98.5%	25.20 (0.04, 50.37)
Triester Glycerol Oxide vs			
Placebo	1	NA	11.86 (8.63, 15.09)
Zinc vs			
Placebo	1	NA	6.04 (-10.08, 22.16)

MD, mean difference; CI, confidence interval; NA, not applicable.

6. Subgroup Discussion

The 51 RCTs studied for the size-reducing effect had different durations of local intervention and were examined at different times during the trial. The size-reducing effect is discussed separately according to the different examination times.

Day 1

1. Consistency Model

1.1 Summary estimates

Glycyrrhiza	-14.16 (-176.75, 151.03)	-30.05 (-70.88, 13.06)
14.16 (-151.03, 176.75)	Laser	-16.19 (-175.48, 143.23)
30.05 (-13.06, 70.88)	16.19 (-143.23, 175.48)	Placebo

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3
Glycyrrhiza	0.54	0.42	0.04
Laser	0.44	0.14	0.42
Placebo	0.03	0.44	0.53

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	14.87 (0.80, 28.99)

1.4 Convergence Diagnostics

Parameter	PSRF	Number of chains	:	4
d.Placebo.Glycyrrhiza	1.00	Tuning iterations	:	20,000
d.Placebo.Laser	1.00	Simulation iterations	:	50,000
sd.d	1.00	Thinning interval	:	10
		Inference samples	:	10,000
		Variance scaling factor:	:	2.5

2. Inconsistency Model

2.1 Summary estimates

Glycyrrhiza	-20.64 (-189.90, 145.55)	-30.03 (-70.13, 10.42)
20.64 (-145.55, 189.90)	Laser	-8.58 (-173.98, 152.25)
30.03 (-10.42, 70.13)	8.58 (-152.25, 173.98)	Placebo

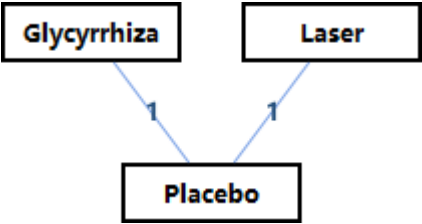
2.2 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	14.83 (1.06, 29.05)
Inconsistency Standard Deviation	14.67 (0.65, 29.11)

2.3 Convergence Diagnostics

Parameter	PSRF	Number of chains	:	4
d.Glycyrrhiza.Placebo	1.00	Tuning iterations	:	20,000
d.Placebo.Laser	1.00	Simulation iterations	:	50,000
sd.d	1.00	Thinning interval	:	10
sd.w	1.00	Inference samples	:	10,000
		Variance scaling factor:	:	2.5

3. Network structure



Day 2

1. Consistency Model

1.1 Summary estimates

Ailcin	-13.70 (-63.05, 33.47)	24.39 (-24.56, 76.19)	3.46 (-50.45, 52.71)	-3.42 (-74.82, 66.63)	-19.44 (-77.92, 41.05)
13.70 (-33.47, 63.05)	Aloe	38.04 (-7.69, 86.27)	17.32 (-33.58, 66.82)	11.16 (-58.87, 78.60)	-5.23 (-58.69, 47.65)
-24.39 (-76.19, 24.56)	-38.04 (-86.27, 7.69)	Amlenox	-20.67 (-74.21, 25.80)	-27.46 (-99.55, 39.81)	-43.54 (-105.04, 13.31)
-3.46 (-52.71, 50.45)	-17.32 (-66.82, 33.58)	20.67 (-25.80, 74.21)	Berberine gelatin	-6.51 (-75.23, 62.83)	-22.27 (-80.93, 39.89)
3.42 (-66.63, 74.82)	-11.16 (-78.60, 58.87)	27.46 (-39.81, 99.55)	6.51 (-62.83, 75.23)	Chitosan	-15.23 (-96.40, 64.14)
19.44 (-41.05, 77.92)	5.23 (-47.65, 58.69)	43.54 (-13.31, 105.04)	22.27 (-39.89, 80.93)	15.23 (-64.14, 96.40)	Curcumin
20.43 (-29.62, 72.96)	7.17 (-41.92, 55.98)	45.37 (-3.54, 98.77)	24.13 (-29.14, 74.88)	18.08 (-53.83, 86.75)	2.04 (-59.84, 62.81)
-21.65 (-68.28, 20.45)	-35.11 (-81.73, 3.81)	2.64 (-32.71, 36.02)	-17.98 (-68.83, 23.22)	-25.38 (-93.64, 40.83)	-41.14 (-101.38, 13.73)
-28.90 (-75.72, 22.05)	-42.53 (-89.37, 6.20)	-4.37 (-38.90, 35.59)	-25.72 (-75.87, 23.78)	-31.30 (-102.46, 37.53)	-48.00 (-106.99, 12.56)
17.72 (-16.34, 53.85)	4.05 (-29.23, 37.89)	42.46 (9.55, 77.85)	21.24 (-15.04, 56.95)	14.57 (-46.97, 77.06)	-0.93 (-50.49, 47.71)
14.27 (-30.08, 60.43)	0.78 (-33.48, 34.08)	38.95 (-1.04, 82.97)	17.93 (-27.47, 60.98)	11.33 (-55.84, 77.97)	-4.35 (-47.24, 37.64)
12.96 (-36.22, 62.11)	-0.75 (-44.57, 43.22)	37.34 (-8.80, 86.25)	16.58 (-32.09, 63.26)	10.08 (-59.02, 78.82)	-5.51 (-62.29, 46.12)

-20.43 (-72.96, 29.62)	21.65 (-20.45, 68.28)	28.90 (-22.05, 75.72)	-17.72 (-53.85, 16.34)	-14.27 (-60.43, 30.08)	-12.96 (-62.11, 36.22)
-7.17 (-55.98, 41.92)	35.11 (-3.81, 81.73)	42.53 (-6.20, 89.37)	-4.05 (-37.89, 29.23)	-0.78 (-34.08, 33.48)	0.75 (-43.22, 44.57)
-45.37 (-98.77, 3.54)	-2.64 (-36.02, 32.71)	4.37 (-35.59, 38.90)	-42.46 (-77.85, -9.55)	-38.95 (-82.97, 1.04)	-37.34 (-86.25, 8.80)
-24.13 (-74.88, 29.14)	17.98 (-23.22, 68.83)	25.72 (-23.78, 75.87)	-21.24 (-56.95, 15.04)	-17.93 (-60.98, 27.47)	-16.58 (-63.26, 32.09)
-18.08 (-86.75, 53.83)	25.38 (-40.83, 93.64)	31.30 (-37.53, 102.46)	-14.57 (-77.06, 46.97)	-11.33 (-77.97, 55.84)	-10.08 (-78.82, 59.02)
-2.04 (-62.81, 59.84)	41.14 (-13.73, 101.38)	48.00 (-12.56, 106.99)	0.93 (-47.71, 50.49)	4.35 (-37.64, 47.24)	5.51 (-46.12, 62.29)
Diosmectite	42.32 (-0.88, 90.17)	49.22 (-1.65, 99.57)	3.04 (-34.10, 39.16)	6.30 (-38.01, 50.00)	7.81 (-42.61, 58.57)
-42.32 (-90.17, 0.88)	Glycyrrhiza	7.31 (-29.69, 37.57)	-39.43 (-69.27, -16.29)	-35.99 (-75.90, -1.89)	-34.27 (-78.67, 5.74)
-49.22 (-99.57, 1.65)	-7.31 (-37.57, 29.69)	Laser	-46.76 (-79.70, -13.87)	-43.37 (-85.77, 0.68)	-41.94 (-88.73, 7.21)
-3.04 (-39.16, 34.10)	39.43 (16.29, 69.27)	46.76 (13.87, 79.70)	Placebo	3.16 (-22.34, 29.02)	4.63 (-27.46, 38.14)
-6.30 (-50.00, 38.01)	35.99 (1.89, 75.90)	43.37 (-0.68, 85.77)	-3.16 (-29.02, 22.34)	Triamcinolone	1.39 (-31.20, 36.15)
-7.81 (-58.57, 42.61)	34.27 (-5.74, 78.67)	41.94 (-7.21, 88.73)	-4.63 (-38.14, 27.46)	-1.39 (-36.15, 31.20)	Triester Glycerol Oxide

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12
Allicin	0.02	0.03	0.04	0.16	0.29	0.23	0.08	0.04	0.04	0.03	0.03	0.02
Aloe	0.01	0.01	0.01	0.02	0.05	0.11	0.18	0.17	0.15	0.13	0.09	0.06
Amlexanox	0.24	0.32	0.27	0.1	0.03	0.02	0.01	0.01	0	0	0	0
Berberine gelatin	0.03	0.03	0.05	0.28	0.28	0.16	0.06	0.03	0.03	0.02	0.02	0.01
Chitosan	0.11	0.05	0.05	0.15	0.1	0.09	0.06	0.05	0.04	0.05	0.08	0.17
Curcumin	0.01	0.01	0.02	0.04	0.06	0.09	0.1	0.07	0.07	0.09	0.14	0.31
Diosmectite	0	0.01	0.01	0.02	0.03	0.05	0.07	0.08	0.08	0.12	0.24	0.29
Glycyrrhiza	0.1	0.28	0.4	0.14	0.04	0.02	0.01	0	0	0	0	0
Laser	0.47	0.26	0.14	0.06	0.03	0.01	0.01	0.01	0	0	0	0
Placebo	0	0	0	0	0	0.02	0.06	0.12	0.19	0.29	0.25	0.05
Triamcinolone	0	0	0.01	0.01	0.03	0.07	0.16	0.23	0.24	0.15	0.08	0.02
Triester Glycerol Oxide	0.01	0.01	0.01	0.02	0.06	0.13	0.21	0.19	0.15	0.1	0.08	0.05

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	8.88 (0.88, 42.96)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Placebo.Allicin	1.00	
d.Placebo.Aloe	1.01	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.TriesterGlycerolOxide	1.01	
d.Triamcinolone.Curcumin	1.01	
sd.d	1.01	
		Number of chains : 4
		Tuning iterations : 20,000
		Simulation iterations : 50,000
		Thinning interval : 10
		Inference samples : 10,000
		Variance scaling factor: 2.5

2.Inconsistency Model

2.1 Summary estimates

Allicin	-14.52 (-42.92, 38.79)	22.84 (-23.1, 76.80)	2.89 (-48.30, 60.30)
Aloe	-37.87 (-87.21, 9.07)	37.87 (-9.07, 87.91)	17.62 (-31.40, 69.32)
Amlexanox	-17.82 (-69.32, 31.40)	20.51 (-29.88, 72.43)	-20.51 (-72.43, 29.88)
Berberine gelatin	-10.56 (-79.25, 65.96)	28.38 (-43.66, 104.38)	7.07 (-44.73, 82.59)
Chitosan	-10.56 (-79.25, 65.96)	46.15 (-34.98, 106.29)	25.54 (-35.99, 83.83)
Diosmectite	-34.83 (-81.42, 6.86)	2.90 (-33.08, 36.66)	-17.47 (-65.13, 28.99)
Glycyrrhiza	8.36 (-49.22, 57.57)	46.24 (-4.59, 97.81)	26.01 (-27.89, 80.44)
Laser	-20.82 (-71.40, 24.25)	-34.83 (-81.42, 6.86)	-17.47 (-65.13, 28.99)
Triamcinolone	-42.59 (-89.51, 5.36)	-4.11 (-40.29, 35.94)	-24.55 (-74.80, 26.47)
Triester Glycerol Oxide	4.40 (-27.39, 36.15)	42.18 (0.28, 77.91)	21.90 (-13.70, 60.12)
Curcumin	1.24 (-32.11, 34.54)	38.90 (-3.08, 83.54)	18.96 (-26.42, 63.12)
Placebo	-0.30 (-44.82, 44.46)	37.57 (-4.46, 87.06)	17.43 (-34.09, 66.44)

-1.81 (-79.70, 66.75)	-21.34 (-83.72, 42.59)	-22.04 (-72.79, 31.43)	20.82 (-24.25, 71.40)	2.79 (-21.85, 80.26)	-18.75 (-56.13, 21.71)	-15.52 (-61.13, 32.61)	-14.29 (-61.57, 39.25)
10.56 (-65.86, 79.25)	-8.21 (-61.72, 46.85)	-8.36 (-57.57, 43.22)	94.83 (-6.86, 81.42)	42.59 (-53.68, 88.51)	-4.40 (-38.15, 27.39)	-1.24 (-34.54, 32.11)	0.30 (-44.46, 44.82)
-28.38 (-104.36, 43.66)	-46.16 (-106.23, 14.98)	-46.24 (-97.81, 4.33)	-2.90 (-36.66, 33.09)	4.11 (-35.84, 40.39)	-42.19 (-77.91, -10.29)	-38.90 (-83.94, 3.08)	-37.57 (-87.06, 8.46)
-7.07 (-82.59, 64.79)	-25.94 (-83.81, 35.99)	-26.01 (-80.44, 27.89)	17.47 (-26.98, 65.13)	24.58 (-26.47, 74.80)	-21.90 (-60.12, 13.70)	-18.96 (-63.12, 26.42)	-17.43 (-66.44, 34.09)
Citrus	-18.52 (-82.08, 65.99)	-18.28 (-89.13, 57.87)	25.42 (-44.81, 97.91)	31.88 (-39.15, 107.17)	-14.66 (-76.69, 50.02)	-11.48 (-78.29, 58.89)	-10.05 (-80.46, 65.66)
18.52 (-65.99, 92.08)	Ginger	0.31 (-62.10, 62.69)	43.64 (-12.13, 103.03)	50.26 (-11.97, 109.79)	3.80 (-47.21, 53.48)	7.18 (-36.84, 49.05)	8.45 (-47.29, 63.85)
18.28 (-57.87, 89.71)	-0.31 (-62.49, 62.10)	Demerol	42.83 (-1.42, 91.64)	50.78 (-0.41, 99.02)	3.99 (-34.48, 40.79)	7.33 (-38.88, 52.39)	8.68 (-42.27, 58.83)
-25.42 (-97.81, 41.81)	-43.64 (-103.03, 12.19)	-42.93 (-91.64, 1.42)	Glycyrrhiza	6.58 (-29.44, 41.29)	-38.51 (-89.01, -13.13)	-36.01 (-76.48, 0.60)	-34.38 (-81.70, 6.40)
-31.88 (-107.17, 38.75)	-50.26 (-109.73, 11.97)	-50.78 (-99.02, 0.41)	-6.58 (-41.29, 29.44)	Laser	-41.02 (-94.48, 22.19)	-43.83 (-87.08, 0.39)	-42.35 (-90.66, 6.79)
14.66 (-50.02, 76.69)	-38.0 (-53.48, 47.81)	-3.99 (-40.79, 34.48)	39.51 (13.13, 69.01)	41.02 (-23.19, 94.48)	Placebo	3.10 (-23.20, 30.04)	4.54 (-29.74, 40.26)
11.48 (-58.89, 78.29)	-7.18 (-49.05, 36.84)	-7.33 (-52.39, 38.39)	36.01 (-0.60, 76.48)	43.83 (-0.39, 87.08)	-3.10 (-30.04, 23.20)	Triprolidine	1.46 (-33.76, 35.82)
10.05 (-65.66, 80.46)	-8.45 (-63.86, 47.89)	-8.68 (-56.83, 42.37)	34.38 (-6.40, 81.70)	42.35 (-47.3, 90.66)	-4.54 (-40.26, 29.74)	-1.46 (-35.92, 33.76)	Triacet-Glycerol-Citrate

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Glycyrrhiza, Laser, Placebo	3.60 (-41.97, 68.36)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	8.57 (0.49, 43.70)
Inconsistency Standard Deviation	25.73 (1.12, 51.05)

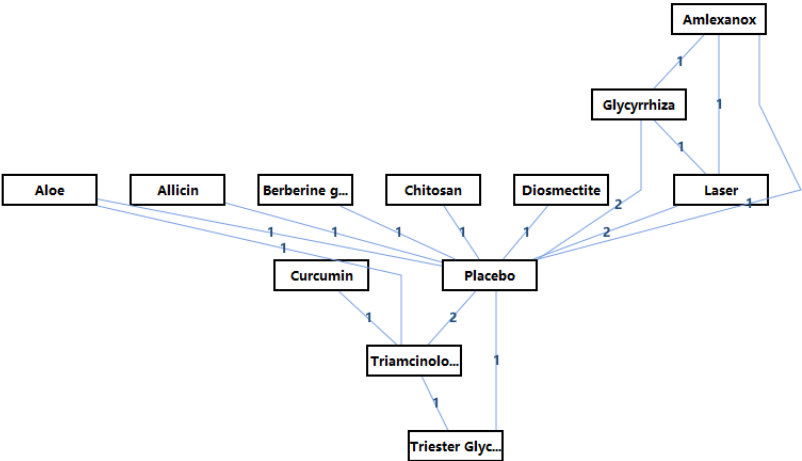
2.4 Convergence Diagnostics

Parameter	PSRF	
d.Allicin.Placebo	1.00	
d.Aloe.Triamcinolone	1.00	
d.Glycyrrhiza.Laser	1.01	
d.Placebo.Aloe	1.00	Number of chains : 4
d.Placebo.Amlexanox	1.00	Tuning iterations : 20,000
d.Placebo.Berberinegelatin	1.00	Simulation iterations : 50,000
d.Placebo.Chitosan	1.04	Thinning interval : 10
d.Placebo.Diosmectite	1.00	Inference samples : 10,000
d.Placebo.Glycyrrhiza	1.00	Variance scaling factor: 2.5
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
w.Glycyrrhiza.Laser.Placebo	1.01	
sd.d	1.01	
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Glycyrrhiza, Laser	9.29 (-28.30, 48.97)	-54.27 (-204.92, 99.93)	7.31 (-29.69, 37.57)	0.39

4. Network structure



Day 3

1. Consistency Model

1.1 Summary estimates

Aloe	38.19 (-85.41, 157.33)	36.97 (-100.17, 171.75)	64.36 (-79.42, 193.82)
-38.19 (-157.33, 85.41)	Amlexanox	-0.88 (-120.99, 122.12)	25.24 (-75.82, 124.28)
-36.97 (-171.75, 100.17)	0.88 (-122.12, 120.99)	Cyclotherapy	28.02 (-116.85, 159.94)
-64.36 (-138.82, 79.42)	-25.24 (-124.28, 75.82)	-28.02 (-159.94, 116.85)	Curcumin
-43.30 (-197.22, 114.54)	-5.34 (-105.16, 87.24)	-6.60 (-161.55, 148.07)	20.01 (-125.54, 157.17)
-28.19 (-139.91, 88.75)	9.91 (-89.38, 108.56)	8.51 (-108.21, 128.42)	36.27 (-86.66, 150.99)
-13.08 (-135.08, 132.49)	26.54 (-72.57, 141.46)	23.92 (-103.51, 170.48)	51.46 (-54.38, 168.26)
-14.19 (-106.28, 80.00)	23.84 (-52.09, 96.89)	22.38 (-72.48, 120.71)	49.71 (-54.05, 141.86)
-26.69 (-138.12, 86.20)	11.10 (-91.32, 108.98)	10.18 (-105.20, 130.41)	37.40 (-84.90, 148.55)
-69.57 (-183.04, 57.74)	-31.33 (-102.97, 45.89)	-32.55 (-146.25, 92.68)	-5.06 (-75.40, 63.26)
-99.84 (-236.93, 37.79)	-61.77 (-183.72, 58.04)	-63.09 (-201.00, 73.68)	-35.93 (-177.50, 99.41)

4330 (-114.54, 197.22)	28.19 (-88.75, 139.91)	13.08 (-132.49, 135.08)	14.19 (-80.00, 106.28)	26.69 (-86.20, 138.12)	69.57 (-57.74, 183.04)	99.84 (-37.79, 236.93)
534 (-87.24, 105.16)	-9.91 (-108.56, 89.38)	-26.54 (-141.46, 72.57)	-23.84 (-96.88, 52.09)	-11.10 (-108.98, 91.32)	31.33 (-45.88, 102.97)	61.77 (-58.04, 183.72)
660 (-148.07, 161.55)	-8.51 (-128.42, 108.21)	-23.92 (-170.48, 103.51)	-22.38 (-120.71, 72.48)	-10.18 (-130.41, 105.20)	32.55 (-92.66, 146.25)	63.09 (-73.68, 201.00)
-20.01 (-157.17, 125.54)	-36.27 (-150.99, 86.66)	-51.46 (-168.26, 54.38)	-49.71 (-141.86, 54.05)	-37.40 (-148.55, 84.90)	5.06 (-63.26, 75.40)	35.93 (-99.41, 177.50)
Dexamethasone	-14.88 (-153.05, 122.53)	-31.32 (-189.69, 101.88)	-28.72 (-150.52, 92.26)	-17.33 (-157.99, 121.40)	25.63 (-100.98, 143.49)	56.33 (-94.05, 212.52)
14.88 (-122.53, 153.05)	Glycyrrhiza	-15.72 (-139.37, 90.66)	-14.01 (-81.13, 54.60)	-1.21 (-96.48, 92.59)	41.18 (-59.82, 134.15)	71.17 (-45.35, 191.41)
31.32 (-101.88, 189.69)	15.72 (-90.66, 139.37)	Laser	2.30 (-82.61, 106.35)	14.46 (-93.73, 139.12)	57.09 (-24.93, 148.69)	87.14 (-35.77, 230.43)
28.72 (-92.26, 150.52)	14.01 (-54.60, 81.13)	-2.30 (-106.35, 82.61)	Placebo	1.263 (-55.50, 78.63)	54.85 (-22.59, 119.89)	85.02 (-10.24, 181.86)
17.33 (-121.40, 157.99)	1.21 (-92.59, 96.48)	-14.46 (-139.12, 93.73)	-12.63 (-78.63, 55.50)	Probiotics	42.73 (-60.68, 133.84)	72.26 (-41.47, 189.09)
-25.63 (-143.49, 100.98)	-41.18 (-134.15, 53.82)	-57.09 (-148.69, 24.93)	-54.85 (-119.89, 22.59)	-42.73 (-133.84, 60.68)	Triamcinolone	30.50 (-85.10, 154.44)
-56.33 (-212.52, 94.05)	-71.17 (-191.41, 45.35)	-87.14 (-230.43, 35.77)	-85.02 (-181.86, 102.4)	-72.26 (-189.09, 41.47)	-30.50 (-154.44, 85.10)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11
Aloe	0.01	0.03	0.03	0.04	0.05	0.05	0.07	0.08	0.1	0.17	0.37
Amlexanox	0.01	0.04	0.07	0.13	0.19	0.17	0.13	0.1	0.08	0.06	0.02
Cryotherapy	0.06	0.11	0.08	0.1	0.1	0.1	0.1	0.08	0.08	0.1	0.09
Curcumin	0.14	0.19	0.18	0.13	0.1	0.07	0.05	0.04	0.04	0.04	0.02
Dexamethasone	0.09	0.11	0.1	0.12	0.11	0.1	0.07	0.06	0.07	0.08	0.09
Glycyrrhiza	0.02	0.04	0.06	0.08	0.11	0.13	0.14	0.13	0.11	0.1	0.06
Laser	0.01	0.03	0.04	0.07	0.07	0.09	0.1	0.09	0.11	0.16	0.24
Placebo	0	0	0	0.02	0.04	0.08	0.15	0.24	0.26	0.17	0.04
Probiotics	0.01	0.04	0.06	0.09	0.11	0.13	0.14	0.13	0.13	0.11	0.06
Triamcinolone	0.08	0.27	0.27	0.16	0.09	0.05	0.03	0.02	0.01	0.01	0
Zinc	0.57	0.14	0.09	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	36.53 (16.67, 87.26)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Amlexanox.Dexamethasone	1.02	
d.Placebo.Aloe	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Cryotherapy	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Probiotics	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Curcumin	1.00	
sd.d	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

Inference samples : 10,000

Variance scaling factor: 2.5

2.Inconsistency Model

2.1 Summary estimates

Aloe	19.11 (-35.30, 91.12)	39.55 (-33.87, 107.94)	29.68 (-40.14, 117.69)	20.20 (-51.27, 106.48)	29.39 (-31.65, 86.17)	-3.75 (-82.85, 81.56)	14.37 (-34.17, 61.82)
-19.11 (-91.12, 35.30)	Amlexanox	17.96 (-59.29, 78.09)	10.16 (-43.43, 63.44)	-0.31 (-48.39, 49.87)	10.37 (-52.03, 55.44)	-24.44 (-90.95, 38.32)	-4.08 (-54.95, 28.91)
-39.55 (-107.84, 33.87)	-17.96 (-78.09, 59.29)	Cryotherapy	-7.56 (-81.75, 85.25)	-17.42 (-93.31, 73.94)	-8.81 (-71.59, 55.86)	-41.25 (-124.12, 49.05)	-23.64 (-75.70, 31.76)
-29.68 (-117.89, 40.14)	-10.16 (-63.44, 43.43)	7.56 (-85.25, 81.75)	Curcumin	-8.80 (-84.11, 62.07)	0.56 (-81.18, 63.09)	-34.33 (-103.13, 30.06)	-14.88 (-88.12, 40.82)
-20.20 (-106.48, 51.27)	0.31 (-49.87, 48.39)	17.42 (-73.94, 93.31)	8.80 (-62.07, 84.11)	Dexamethasone	10.19 (-74.14, 73.76)	-25.44 (-107.76, 52.52)	-4.97 (-77.45, 51.45)
-29.39 (-86.17, 31.65)	-10.37 (-55.44, 52.03)	8.81 (-55.86, 71.59)	-0.56 (-63.09, 81.18)	-10.19 (-73.76, 74.14)	Glycyrrhiza	-33.85 (-105.55, 45.70)	-15.31 (-48.43, 21.18)
3.75 (-81.56, 82.85)	24.44 (-38.32, 90.95)	41.25 (-49.05, 124.12)	34.33 (-30.06, 103.13)	25.44 (-52.52, 107.76)	33.85 (-45.70, 105.55)	Laser	46.21 (-46.38, 140.89)
-14.37 (-61.82, 34.17)	4.08 (-28.91, 54.95)	23.64 (-31.76, 75.70)	14.88 (-40.82, 88.12)	4.97 (-51.45, 77.45)	15.31 (-21.18, 48.43)	-46.21 (-140.89, 46.38)	Placebo
-28.98 (-84.35, 30.06)	-9.20 (-54.16, 52.98)	10.11 (-53.25, 71.11)	0.92 (-61.16, 81.71)	-8.59 (-72.27, 71.65)	0.86 (-46.33, 47.52)	-32.63 (-103.51, 45.91)	-13.96 (-46.30, 18.86)
-31.19 (-113.33, 25.73)	-11.65 (-58.33, 22.23)	5.31 (-85.60, 66.04)	-2.72 (-43.98, 30.16)	-12.04 (-81.30, 45.68)	-1.54 (-78.01, 45.30)	-37.45 (-98.37, 14.71)	-94.02 (-133.75, -30.18)
-100.09 (-166.94, -34.05)	-80.12 (-136.76, -85.59)	-61.70 (-136.33, 8.67)	-70.77 (-143.61, 16.48)	-78.98 (-152.83, 7.37)	-70.65 (-132.69, -12.11)	-105.03 (-186.21, -19.66)	-85.26 (-124.62, -36.60)

28.58 (-30.06, 84.35)	31.19 (-25.73, 113.33)	100.09 (34.05, 166.94)
9.20 (-52.98, 54.16)	11.65 (-22.23, 58.33)	80.12 (8.59, 136.76)
-10.11 (-71.11, 53.25)	-5.31 (-68.04, 55.60)	61.70 (-8.67, 136.33)
-0.92 (-81.71, 61.16)	2.72 (-30.16, 43.98)	70.77 (-16.48, 143.61)
8.59 (-71.65, 72.27)	12.04 (-45.68, 61.30)	78.98 (-7.37, 152.83)
-0.86 (-47.52, 46.33)	1.54 (-45.30, 78.01)	70.65 (12.11, 132.69)
32.63 (-45.91, 103.51)	37.45 (-14.71, 98.37)	105.03 (19.66, 186.21)
13.96 (-18.86, 46.30)	94.02 (30.18, 133.75)	85.26 (36.60, 134.62)
Probiotics	2.78 (-44.62, 78.82)	71.86 (12.05, 132.34)
-2.78 (-78.82, 44.62)	Triamcinolone	67.76 (-15.47, 130.03)
-71.86 (-132.34, -12.05)	-67.76 (-130.03, 15.47)	Zinc

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Amlexanox, Laser, Placebo, Triamcinolone	-27.88 (-122.82, 59.06)
Amlexanox, Placebo, Triamcinolone	76.53 (-8.08, 123.31)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	11.67 (0.98, 55.76)
Inconsistency Standard Deviation	67.12 (16.68, 100.02)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.00	
d.Amlexanox.Dexamethasone	1.19	
d.Amlexanox.Triamcinolone	1.01	
d.Placebo.Amlexanox	1.00	
d.Placebo.Cryotherapy	1.01	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Probiotics	1.01	
d.Placebo.Zinc	1.01	
d.Triamcinolone.Curcumin	1.01	
d.Triamcinolone.Laser	1.00	
w.Amlexanox.Placebo.Laser.Tria...	1.00	
w.Amlexanox.Placebo.Triamcinol...	1.00	
sd.d	1.01	
sd.w	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

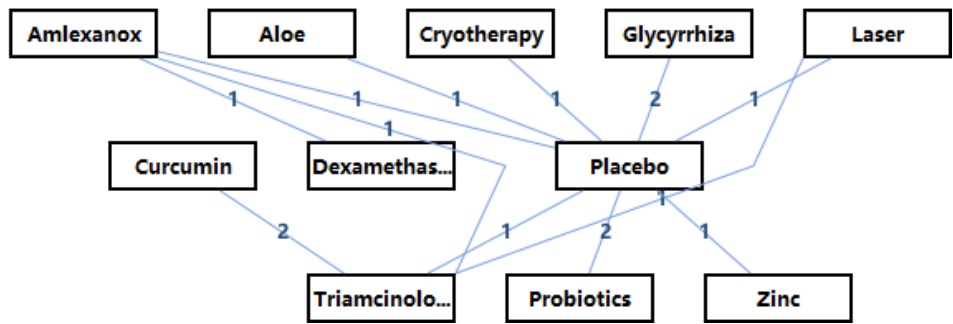
Inference samples : 10,000

Variance scaling factor: 2.5

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Amlexanox, Placebo	-3.24 (-73.90, 61.95)	-80.03 (-150.79, 36.17)	-23.84 (-96.88, 52.09)	0.17
Amlexanox, Triamcinolone	10.14 (-53.70, 74.47)	89.12 (-22.73, 152.94)	31.33 (-45.89, 102.97)	0.14
Laser, Placebo	82.29 (-60.65, 226.22)	-38.33 (-165.77, 80.37)	2.30 (-82.61, 106.35)	0.18
Laser, Triamcinolone	29.42 (-68.30, 126.55)	150.30 (-8.90, 309.08)	57.09 (-24.93, 148.69)	0.19
Placebo, Triamcinolone	100.84 (55.85, 147.26)	11.02 (-53.67, 49.37)	54.85 (-22.59, 119.89)	0.01

4. Network structure



Day 4

1. Consistency Model

1.1 Summary estimates

Allien	14.63 (-108.29, 133.33)	25.41 (-115.31, 172.80)	-5.19 (-151.54, 147.72)	-2.32 (-165.35, 158.56)	-13.88 (-145.68, 114.23)	-18.56 (-172.65, 129.70)	46.95 (-94.16, 197.67)	19.40 (-114.60, 154.81)
-14.63 (-133.33, 108.29)	Amlexanox	11.37 (-103.17, 127.86)	-19.08 (-136.15, 103.57)	-16.99 (-148.05, 113.56)	-27.47 (-124.23, 64.81)	-32.59 (-154.28, 86.94)	33.47 (-78.72, 151.35)	5.60 (-89.76, 101.33)
-25.41 (-172.80, 115.31)	-11.37 (-127.86, 103.17)	Benzodamine	-29.89 (-177.77, 117.81)	-28.69 (-187.29, 123.14)	-38.73 (-159.67, 69.28)	-43.70 (-194.77, 95.94)	22.18 (-86.46, 131.08)	-5.81 (-133.09, 116.87)
5.19 (-147.72, 151.54)	19.08 (-103.57, 136.15)	29.89 (-117.81, 177.77)	Berberine gillain	2.21 (-157.49, 158.60)	-8.41 (-146.26, 117.13)	-14.45 (-169.09, 138.11)	52.02 (-94.71, 202.76)	24.27 (-107.59, 156.61)
2.32 (-158.56, 165.35)	16.99 (-113.56, 148.05)	28.69 (-123.14, 181.29)	-2.21 (-158.60, 157.49)	Chitosan	-11.65 (-157.21, 132.40)	-16.01 (-180.53, 146.44)	51.18 (-105.34, 210.60)	22.31 (-120.39, 165.57)
13.68 (-114.23, 145.68)	27.47 (-64.81, 124.29)	38.73 (-69.28, 159.67)	8.41 (-117.13, 146.28)	11.65 (-132.40, 157.21)	Curcumin	-5.64 (-125.63, 133.96)	-16.01 (-180.53, 146.44)	51.18 (-105.34, 210.60)
18.56 (-129.70, 172.65)	32.59 (-86.84, 154.28)	43.70 (-95.94, 194.77)	14.45 (-138.11, 169.09)	16.01 (-146.44, 180.53)	5.64 (-125.63, 133.96)	Diclofenac	66.63 (-79.29, 217.37)	38.61 (-92.49, 170.16)
-46.95 (-197.67, 94.16)	-33.47 (-151.35, 78.72)	-22.18 (-131.08, 86.46)	-52.02 (-202.76, 94.71)	-51.18 (-210.60, 105.34)	-61.30 (-179.14, 47.45)	-66.63 (-217.37, 79.29)	Doxycycline	-27.81 (-156.47, 94.76)
-19.40 (-154.81, 114.60)	-5.60 (-101.33, 89.76)	5.81 (-116.87, 133.09)	-24.27 (-156.61, 107.59)	-22.31 (-165.57, 120.39)	-33.16 (-144.68, 74.74)	-38.61 (-170.16, 92.49)	27.81 (-94.76, 156.47)	Laser
19.93 (-85.93, 130.86)	34.68 (-20.72, 88.08)	45.62 (-49.84, 152.46)	15.88 (-85.74, 124.77)	17.90 (-103.62, 138.48)	7.03 (-70.13, 81.84)	2.30 (-104.81, 107.15)	67.70 (-28.64, 171.38)	40.11 (-36.50, 118.89)
-47.37 (-228.94, 130.28)	-32.95 (-192.07, 118.71)	-22.39 (-125.66, 85.11)	-51.89 (-233.57, 128.13)	-49.98 (-243.51, 135.97)	-60.34 (-220.75, 90.50)	-66.27 (-248.85, 114.44)	-0.00 (-152.86, 151.93)	-27.13 (-193.59, 135.33)
-30.78 (-157.23, 93.17)	-16.03 (-105.31, 67.90)	-5.15 (-102.31, 97.84)	-34.70 (-157.92, 93.15)	-32.82 (-172.74, 105.59)	-43.80 (-116.47, 20.79)	-49.76 (-178.77, 74.40)	17.51 (-80.08, 117.80)	-10.94 (-112.85, 91.77)
-14.09 (-161.01, 132.24)	0.09 (-115.99, 109.55)	10.66 (-118.03, 143.74)	-18.10 (-163.00, 127.11)	-16.32 (-173.94, 134.15)	-27.36 (-144.31, 83.50)	-33.24 (-182.47, 113.57)	33.88 (-98.11, 168.15)	5.16 (-122.30, 128.27)

-19.93 (-130.86, 85.93)	47.37 (-130.28, 228.94)	30.78 (-93.17, 157.23)	14.09 (-132.24, 161.01)
-34.68 (-88.08, 20.72)	32.95 (-118.71, 192.07)	16.03 (-67.90, 106.31)	-0.09 (-109.55, 115.99)
-45.62 (-152.46, 49.84)	22.39 (-85.11, 125.66)	5.15 (-97.84, 102.31)	-10.86 (-143.74, 118.03)
-15.88 (-124.77, 85.74)	51.89 (-128.13, 233.57)	34.70 (-93.75, 157.92)	18.10 (-127.11, 163.00)
-17.90 (-138.48, 103.62)	49.98 (-135.97, 243.51)	32.82 (-105.59, 172.74)	16.32 (-134.15, 173.34)
-7.03 (-81.84, 70.13)	60.34 (-90.50, 220.75)	43.80 (-20.79, 116.47)	27.36 (-83.50, 144.31)
-2.30 (-107.15, 104.81)	66.27 (-114.44, 248.85)	49.76 (-74.40, 178.77)	33.24 (-113.57, 182.47)
-67.70 (-171.38, 28.64)	0.00 (-151.93, 152.86)	-17.51 (-117.80, 80.88)	-33.89 (-188.15, 98.11)
-40.11 (-118.89, 36.50)	27.13 (-135.33, 193.59)	10.94 (-91.77, 112.85)	-5.16 (-128.27, 122.30)
Placebo	67.39 (-74.27, 214.42)	51.01 (-12.04, 118.39)	34.50 (-60.31, 136.84)
-67.39 (-214.42, 74.27)	Quercetin	-17.05 (-164.83, 127.47)	-33.39 (-203.08, 134.07)
-51.01 (-118.39, 12.04)	17.05 (-127.47, 164.83)	Thimerochlorine	-15.83 (-115.14, 81.26)
-34.50 (-136.84, 60.31)	33.39 (-134.07, 203.08)	15.83 (-81.26, 115.14)	Triester Glycerol Oxide

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13
Allicin	0.06	0.06	0.06	0.06	0.07	0.08	0.07	0.08	0.08	0.08	0.08	0.1	0.12
Amlexanox	0.03	0.05	0.08	0.1	0.12	0.13	0.14	0.13	0.09	0.06	0.04	0.03	0.01
Benzylamine	0.04	0.13	0.13	0.12	0.11	0.1	0.08	0.08	0.06	0.05	0.05	0.04	0.02
Berberine gelatin	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.12	0.14
Chitosan	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.08	0.1	0.18
Curcumin	0	0.01	0.02	0.03	0.05	0.07	0.08	0.1	0.12	0.12	0.14	0.14	0.12
Diosmectite	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.08	0.1	0.14	0.23
Doxycycline	0.23	0.18	0.14	0.1	0.08	0.07	0.06	0.04	0.03	0.02	0.02	0.02	0.01
Laser	0.07	0.09	0.1	0.1	0.1	0.1	0.1	0.09	0.08	0.06	0.04	0.04	0.02
Placebo	0	0	0	0	0.01	0.01	0.04	0.08	0.15	0.24	0.25	0.17	0.05
Quercetin	0.31	0.14	0.09	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.04	0.04
Triamcinolone	0.05	0.1	0.15	0.17	0.16	0.12	0.1	0.07	0.04	0.02	0.01	0.01	0
Triester Glycerol Oxide	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.05

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	46.52 (26.29, 91.77)

1.4 Convergence Diagnostics

Parameter	PSRF	<div>Number of chains : 4</div> <div>Tuning iterations : 20,000</div> <div>Simulation iterations : 50,000</div> <div>Thinning interval : 10</div> <div>Inference samples : 10,000</div> <div>Variance scaling factor: 2.5</div>
d.Benzylamine.Doxycline	1.00	
d.Benzylamine.Placebo	1.00	
d.Benzylamine.Quercetin	1.00	
d.Benzylamine.Triamcinolone	1.00	
d.Placebo.Allicin	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Curcumin	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Laser	1.00	
d.Placebo.TriesterGlycerolOxide	1.00	
sd.d	1.00	

2.Inconsistency Model

2.1 Summary estimates

Allicin	14.24 (-111.41, 137.57)	25.03 (-128.28, 178.16)	-4.52 (-159.50, 153.10)	-1.63 (-168.95, 162.59)	-15.19 (-156.57, 127.83)	-19.62 (-174.90, 137.87)	48.33 (-98.34, 201.34)
-14.24 (-137.57, 111.41)	Amlexanox	10.97 (-107.55, 128.90)	-18.73 (-140.09, 102.16)	-15.60 (-155.00, 116.29)	-28.96 (-136.53, 75.92)	-34.64 (-156.83, 88.02)	34.12 (-82.90, 148.91)
-25.03 (-178.16, 128.28)	Benzylamine	29.56 (-124.03, 179.21)	-29.56 (-179.21, 124.03)	-27.03 (-189.52, 136.25)	-39.58 (-161.29, 83.01)	-43.31 (-197.65, 101.71)	23.50 (-87.26, 139.72)
452 (-153.10, 159.50)	Berberine gelatin	27.03 (-136.25, 189.52)	-3.33 (-167.87, 162.21)	3.33 (-162.21, 167.87)	-10.11 (-154.66, 129.74)	-15.20 (-170.81, 139.97)	53.00 (-95.12, 204.81)
163 (-162.59, 168.95)	Chitosan	15.60 (-116.29, 155.00)	10.11 (-129.74, 154.66)	13.82 (-140.34, 161.04)	-13.82 (-161.04, 140.34)	-17.45 (-181.10, 147.32)	50.71 (-112.66, 218.39)
15.19 (-127.83, 156.57)	Curcumin	28.96 (-75.92, 136.33)	15.20 (-139.97, 170.81)	17.45 (-147.32, 181.10)	-5.14 (-144.77, 136.31)	-62.98 (-56.74, 183.55)	62.98 (-56.74, 183.55)
19.62 (-137.87, 174.90)	Diosmectite	34.64 (-88.02, 156.83)	15.20 (-139.97, 170.81)	17.45 (-147.32, 181.10)	5.14 (-136.31, 144.77)	67.13 (-80.15, 221.72)	67.13 (-80.15, 221.72)
-48.33 (-201.34, 98.34)	Doxycline	-34.12 (-148.91, 82.90)	-53.00 (-204.81, 95.12)	-50.71 (-218.39, 112.66)	-62.98 (-183.55, 56.74)	-67.13 (-221.72, 80.15)	29.21 (-100.74, 159.67)
-18.75 (-157.93, 115.94)		-4.76 (-101.83, 91.04)	-22.56 (-160.81, 110.84)	-20.29 (-176.66, 125.29)	-33.91 (-156.94, 81.43)	-38.10 (-172.96, 98.67)	29.21 (-100.74, 159.67)
20.59 (-91.01, 133.50)		35.19 (-19.92, 89.70)	46.12 (-57.92, 149.35)	17.18 (-92.39, 125.24)	7.88 (-80.06, 92.36)	1.32 (-108.84, 112.57)	68.89 (-32.28, 175.38)
-45.94 (-232.01, 142.21)		-32.22 (-186.67, 128.75)	-21.57 (-131.88, 86.60)	-51.58 (-236.70, 139.03)	-61.42 (-225.25, 98.20)	-65.92 (-253.94, 115.92)	1.57 (-150.59, 162.57)
-30.01 (-163.01, 98.81)		-16.42 (-108.37, 71.32)	-6.08 (-108.39, 97.44)	-35.25 (-165.69, 95.16)	-45.35 (-118.53, 24.07)	-50.31 (-182.54, 78.40)	18.01 (-82.84, 118.08)
-14.38 (-168.28, 135.69)		-0.41 (-115.64, 116.18)	10.39 (-126.56, 144.52)	-19.91 (-165.20, 127.10)	-28.73 (-153.31, 86.54)	-34.07 (-184.25, 113.60)	34.27 (-99.18, 167.25)

18.75 (-115.94, 157.93)	-2059 (-133.50, 91.01)	45.94 (-142.21, 232.01)	30.01 (-98.81, 163.01)	14.38 (-135.69, 168.28)
4.76 (-91.04, 101.83)	-35.19 (-89.70, 19.92)	32.22 (-128.75, 186.67)	16.42 (-71.32, 108.37)	0.41 (-116.18, 115.64)
-6.07 (-134.89, 126.36)	-46.12 (-149.35, 57.92)	21.57 (-86.60, 131.68)	6.08 (-97.44, 108.39)	-10.39 (-144.52, 126.56)
22.56 (-110.84, 160.81)	-17.18 (-125.24, 92.99)	51.58 (-139.03, 236.70)	35.25 (-95.16, 165.69)	19.91 (-127.10, 165.20)
20.29 (-125.29, 176.66)	-19.66 (-142.22, 106.58)	48.24 (-143.13, 247.17)	32.02 (-108.85, 180.07)	16.84 (-141.34, 174.52)
33.91 (-81.43, 156.94)	-7.88 (-92.36, 80.06)	61.42 (-98.20, 225.25)	45.35 (-24.07, 118.53)	28.73 (-86.54, 153.31)
38.10 (-98.67, 172.96)	-1.32 (-112.57, 108.84)	65.92 (-115.92, 253.94)	50.31 (-78.40, 182.54)	34.07 (-113.60, 184.25)
-29.21 (-159.67, 100.74)	-68.89 (-175.38, 32.28)	-1.57 (-162.57, 150.59)	-18.01 (-118.08, 82.84)	-34.27 (-167.25, 99.18)
Laser	-40.13 (-121.23, 37.62)	28.06 (-143.14, 194.84)	11.78 (-94.73, 119.10)	-4.63 (-133.32, 124.61)
40.13 (-37.62, 121.23)	Placebo	67.43 (-82.80, 215.71)	51.77 (-16.77, 125.45)	35.39 (-65.20, 138.28)
-28.06 (-194.84, 143.14)	-67.43 (-215.71, 82.80)	Quercetin	-15.38 (-161.40, 132.40)	-32.23 (-203.02, 143.53)
-11.78 (-119.10, 94.73)	-51.77 (-125.45, 16.77)	15.38 (-132.40, 161.40)	Triamcinolone	-16.43 (-118.37, 84.08)
4.63 (-124.61, 133.32)	-35.39 (-138.28, 65.20)	32.23 (-143.53, 203.02)	16.43 (-84.08, 118.37)	Triester Glycerol Oxide

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Curcumin, Placebo, Triamcinolone	0.78 (-85.57, 87.20)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	48.70 (27.52, 92.50)
Inconsistency Standard Deviation	45.97 (2.49, 106.18)

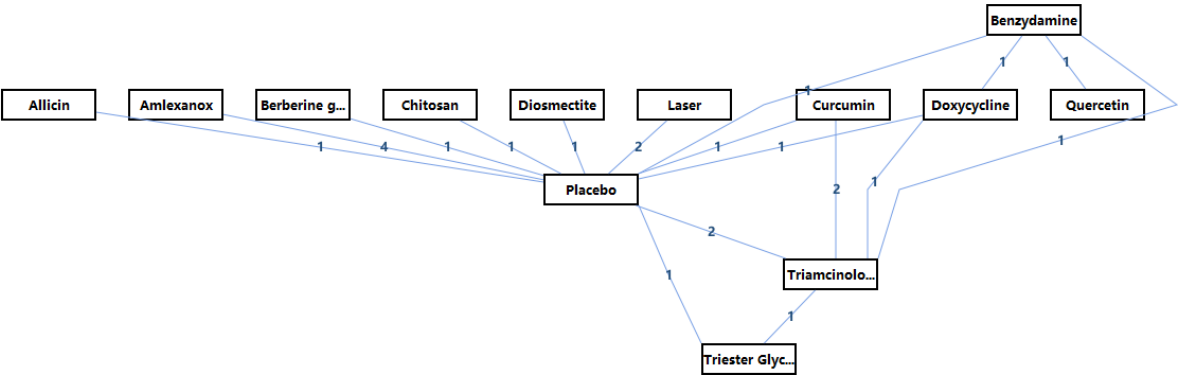
2.4 Convergence Diagnostics

Parameter	PSRF	
d.Allicin.Placebo	1.00	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Benzydamine.Doxycycline	1.00	
d.Benzydamine.Quercetin	1.00	
d.Benzydamine.Triamcinolone	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Benzydamine	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Laser	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
w.Curcumin.Placebo.Triamcinolo...	1.00	
sd.d	1.00	
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Benzydamine, Placebo	-72.90 (-176.97, 26.31)	10.29 (-114.57, 130.70)	-45.62 (-152.46, 49.84)	0.23
Benzydamine, Triamcinolone	31.20 (-69.80, 130.93)	-51.46 (-176.19, 82.66)	5.15 (-97.84, 102.31)	0.27
Curcumin, Placebo	-10.02 (-130.15, 112.82)	-5.08 (-120.90, 122.67)	-7.03 (-81.84, 70.13)	0.94
Curcumin, Triamcinolone	46.37 (-36.96, 135.10)	41.15 (-103.00, 185.63)	43.80 (-20.79, 116.47)	0.95
Placebo, Triamcinolone	51.33 (-31.39, 135.71)	56.45 (-90.55, 210.36)	51.01 (-12.04, 118.39)	0.94

4. Network structure



Day 5

1. Consistency Model

1.1 Summary estimates

Alice	1305 (-64.92, 88.43)	-1656 (-106.20, 67.88)	2120 (-88.41, 131.48)	927 (-66.32, 84.95)	615 (-77.48, 81.28)	-1885 (-86.31, 50.32)
	Amlexanox					
-1305 (-88.43, 64.92)		-2884 (-102.36, 38.42)	921 (-68.07, 87.94)	-372 (-66.13, 49.81)	-639 (-67.85, 45.74)	-3202 (-74.58, 14.28)
1656 (-67.88, 106.20)	2884 (-38.42, 102.36)	Curcumin	3825 (-64.60, 148.31)	2491 (-47.08, 103.01)	2193 (-53.63, 95.21)	-251 (-67.22, 70.56)
-2120 (-131.48, 88.41)	-921 (-67.94, 68.07)		Diosmetinone	-1304 (-107.16, 79.97)	-1579 (-116.22, 75.37)	-4105 (-130.22, 49.79)
-927 (-84.95, 66.32)	372 (-49.81, 56.13)	-2491 (-103.01, 47.08)	1304 (-79.97, 107.16)	Glycyrrhiza	-280 (-61.98, 48.35)	-2779 (-64.32, 10.89)
-615 (-81.28, 77.48)	639 (-45.74, 67.85)	-2193 (-95.21, 53.63)	1579 (-75.37, 116.22)	280 (-48.35, 61.98)	Laser	-2496 (-70.08, 29.55)
1885 (-50.32, 86.31)	3202 (-14.28, 74.58)	251 (-70.56, 67.22)	4105 (-49.79, 130.22)	2779 (-10.89, 64.32)	2496 (-29.55, 70.08)	Placebo
-345 (-81.59, 75.66)	937 (-51.75, 67.45)	-1998 (-96.65, 51.45)	1916 (-80.36, 115.57)	547 (-52.12, 62.40)	257 (-66.53, 62.89)	-2230 (-67.26, 22.82)
-1427 (-81.83, 53.69)	-143 (-51.32, 48.83)	-3097 (-84.24, 17.80)	769 (-84.67, 99.72)	-543 (-61.89, 48.05)	-840 (-67.32, 43.48)	-3373 (-76.79, 11.82)
-2417 (-129.59, 80.23)	-1157 (-104.64, 77.37)	-4097 (-150.51, 58.46)	-238 (-125.11, 117.78)	-1521 (-103.74, 69.05)	-1853 (-116.88, 67.67)	-4336 (-120.28, 33.67)

3.45 (-75.66, 81.59)	14.27 (-53.69, 81.83)	2417 (-80.23, 129.59)
-9.37 (-67.45, 51.75)	1.43 (-48.83, 51.32)	1157 (-77.37, 104.64)
19.98 (-51.45, 96.65)	30.97 (-17.80, 94.24)	4097 (-58.46, 150.51)
-19.16 (-115.57, 80.36)	-7.69 (-99.72, 84.67)	2.38 (-117.78, 125.11)
-5.47 (-62.40, 52.12)	5.43 (-48.05, 61.89)	15.21 (-69.05, 103.74)
-2.57 (-62.69, 66.53)	8.40 (-43.48, 67.32)	18.53 (-67.67, 116.88)
22.30 (-22.82, 67.26)	33.73 (-11.82, 76.79)	43.36 (-33.67, 120.28)
Probiotics	11.33 (-42.80, 65.10)	2111 (-69.51, 112.74)
-11.33 (-65.10, 42.80)	Triamcinolone	1007 (-78.37, 102.61)
-21.11 (-112.74, 69.51)	-10.07 (-102.61, 78.37)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10
Aloe	0.08	0.09	0.08	0.08	0.09	0.09	0.11	0.12	0.13	0.13
Amlexanox	0.04	0.14	0.17	0.17	0.16	0.13	0.1	0.06	0.03	0.01
Curcumin	0.02	0.03	0.04	0.05	0.06	0.08	0.1	0.12	0.17	0.33
Dexamethasone	0.31	0.15	0.09	0.07	0.06	0.06	0.06	0.06	0.06	0.09
Glycyrrhiza	0.05	0.11	0.13	0.14	0.14	0.15	0.12	0.09	0.05	0.01
Laser	0.06	0.1	0.11	0.12	0.12	0.13	0.12	0.11	0.08	0.05
Placebo	0	0	0	0.01	0.03	0.06	0.11	0.21	0.31	0.27
Probiotics	0.04	0.08	0.1	0.11	0.12	0.13	0.14	0.13	0.09	0.05
Triamcinolone	0.07	0.15	0.18	0.17	0.16	0.12	0.08	0.04	0.02	0
Zinc	0.33	0.15	0.09	0.07	0.06	0.06	0.06	0.06	0.05	0.06

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	33.43 (19.44, 62.54)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Amlexanox.Dexamethasone	1.00	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Placebo.Aloe	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Probiotics	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Curcumin	1.00	
sd.d	1.00	

2.Inconsistency Model

2.1 Summary estimates

Abe	3.32 (-75.78, 83.10)	-16.74 (-110.99, 70.28)	12.36 (-93.42, 118.62)	-13.83 (-101.68, 71.89)	-2.37 (-88.08, 76.10)	-18.45 (-83.23, 46.43)	13.89 (-76.28, 103.91)	14.63 (-49.73, 78.69)	24.30 (-73.32, 118.91)
-3.32 (-83.10, 75.78)	Ambulance	-21.39 (-100.44, 54.75)	9.10 (-61.95, 81.08)	-17.91 (-70.75, 38.25)	-5.58 (-63.69, 45.34)	-22.45 (-69.31, 29.32)	9.36 (-65.45, 90.23)	7.35 (-47.31, 62.73)	21.37 (-66.40, 109.00)
16.74 (-70.28, 110.99)	21.39 (-54.75, 100.44)	Cicumun	29.82 (-72.10, 138.02)	3.30 (-79.96, 91.75)	14.35 (-59.68, 89.67)	-1.53 (-73.42, 75.08)	31.04 (-42.77, 109.29)	29.64 (-15.53, 80.58)	41.42 (-60.57, 146.89)
-12.36 (-118.62, 93.42)	-9.10 (-81.08, 61.95)	-29.82 (-138.02, 72.10)	Deemethacone	-27.22 (-115.64, 65.04)	-14.61 (-109.66, 72.74)	-30.77 (-118.32, 57.33)	1.36 (-104.75, 106.46)	0.06 (-93.20, 93.44)	12.84 (-100.78, 122.83)
13.83 (-71.89, 101.68)	17.91 (-38.25, 70.75)	-3.30 (-91.75, 79.96)	27.22 (-65.04, 115.64)	Glycyrrhiza	12.31 (-53.09, 64.89)	-32.68 (-65.45, 3.49)	26.17 (-42.56, 96.38)	26.17 (-42.56, 96.38)	38.66 (-54.81, 131.27)
2.37 (-76.10, 88.08)	5.56 (-45.34, 63.69)	-14.35 (-89.67, 59.68)	14.61 (-72.74, 109.66)	-12.31 (-64.89, 53.09)	Laser	4.41 (-63.29, 96.57)	16.34 (-56.80, 96.15)	15.14 (-39.34, 75.07)	26.82 (-61.57, 121.17)
18.45 (-46.43, 83.23)	22.45 (-29.32, 69.31)	1.53 (-75.08, 73.42)	30.77 (-57.33, 118.32)	32.68 (-3.49, 69.45)	-4.41 (-96.57, 63.29)	Piacebo	16.77 (-26.67, 63.72)	29.87 (-72.72, 132.38)	43.03 (-28.15, 115.81)
-13.89 (-103.91, 76.28)	-9.36 (-90.23, 65.45)	-31.04 (-109.29, 42.77)	-1.36 (-106.46, 104.75)	-26.90 (-116.96, 54.85)	-16.34 (-96.15, 56.80)	-16.77 (-63.72, 26.67)	Probiotics	-1.84 (-61.20, 58.73)	9.78 (-89.72, 109.72)
-14.63 (-78.68, 49.73)	-7.35 (-62.73, 47.31)	-29.64 (-80.58, 15.53)	-0.06 (-93.44, 93.20)	-26.17 (-96.38, 42.56)	-15.14 (-75.07, 39.34)	-29.87 (-132.38, 72.72)	1.84 (-58.73, 61.20)	Triamcinolone	10.95 (-79.04, 103.77)
-24.30 (-118.91, 73.32)	-21.37 (-109.00, 66.40)	-41.42 (-146.89, 60.57)	-12.84 (-122.83, 100.78)	-38.66 (-131.27, 54.81)	-26.82 (-121.17, 61.57)	-43.03 (-115.81, 28.15)	-9.78 (-109.72, 89.72)	-10.95 (-103.77, 79.04)	Zinc

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Amlexanox, Glycyrrhiza, Placebo	-24.97 (-88.02, 19.55)
Amlexanox, Laser, Placebo	15.95 (-36.44, 110.28)
Amlexanox, Laser, Triamcinolone	0.54 (-55.45, 64.80)
Amlexanox, Laser, Placebo, Triamcinolone	1.13 (-55.54, 61.19)
Amlexanox, Laser, Placebo, Probiotics, Triamcinolone	10.65 (-42.90, 89.06)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	30.03 (14.97, 59.34)
Inconsistency Standard Deviation	34.85 (3.35, 87.39)

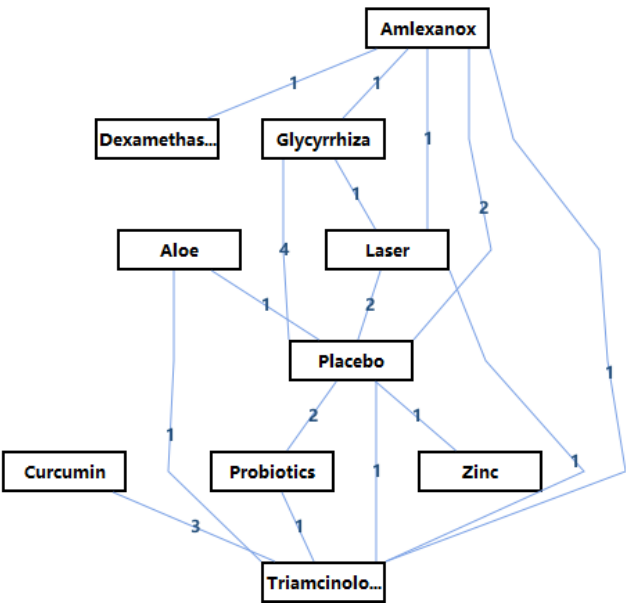
2.4 Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.00	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Amlexanox.Dexamethasone	1.00	
d.Amlexanox.Glycyrrhiza	1.00	
d.Glycyrrhiza.Laser	1.00	
d.Laser.Triamcinolone	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Probiotics	1.00	
w.Amlexanox.Glycyrrhiza.Placebo	1.00	
w.Amlexanox.Laser.Placebo	1.00	
w.Amlexanox.Laser.Triamcinolone	1.00	
w.Amlexanox.Laser.Triamcinolon...	1.00	
w.Amlexanox.Laser.Triamcinolon...	1.00	
sd.d	1.00	
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Amlexanox, Glycyrrhiza	-14.55 (-96.93, 66.57)	-1.23 (-69.58, 69.12)	-3.72 (-56.13, 49.81)	0.79
Amlexanox, Laser	10.24 (-59.68, 77.49)	-56.43 (-132.79, 18.07)	-6.39 (-67.85, 45.74)	0.17
Amlexanox, Placebo	-44.02 (-98.67, 9.64)	-16.18 (-76.22, 48.61)	-32.02 (-74.58, 14.28)	0.46
Amlexanox, Triamcinolone	8.69 (-74.93, 91.39)	-4.71 (-81.18, 69.16)	1.43 (-48.83, 51.32)	0.79
Glycyrrhiza, Laser	22.52 (-45.28, 91.87)	-53.33 (-132.35, 21.65)	-2.80 (-61.98, 48.35)	0.12
Laser, Placebo	-39.77 (-98.34, 36.30)	-24.69 (-87.00, 42.32)	-24.96 (-70.08, 29.55)	0.71
Laser, Triamcinolone	29.34 (-55.66, 115.59)	-5.56 (-74.37, 75.58)	8.40 (-43.48, 67.32)	0.52
Placebo, Probiotics	10.55 (-43.57, 65.00)	60.79 (-36.75, 151.55)	22.30 (-22.82, 67.26)	0.32
Placebo, Triamcinolone	35.39 (-47.22, 117.45)	31.70 (-30.73, 91.02)	33.73 (-11.82, 76.79)	0.93
Probiotics, Triamcinolone	-16.45 (-96.23, 63.34)	32.79 (-41.72, 105.53)	11.33 (-42.80, 65.10)	0.32

4. Network structure



Day 6

1. Consistency Model

1.1 Summary estimates

Alien	10.62 (-115.02, 141.93)	27.47 (-78.94, 133.87)	-1.06 (-127.34, 128.88)	16.04 (-123.64, 156.62)	-76.58 (-226.85, 75.07)	7.24 (-124.72, 134.20)
-10.62 (-141.93, 115.02)	Aloe	17.33 (-92.79, 122.57)	-12.28 (-142.02, 119.28)	5.97 (-134.45, 146.99)	-87.96 (-240.46, 67.43)	-3.31 (-137.94, 126.47)
-27.47 (-133.87, 78.94)	-17.33 (-122.57, 92.79)	Amlexanox	-28.99 (-133.51, 76.27)	-11.59 (-129.64, 105.09)	-104.27 (-232.08, 25.46)	-20.26 (-126.51, 84.91)
1.06 (-128.88, 127.34)	12.28 (-119.28, 142.02)	28.99 (-76.27, 133.51)	Berberine ginseng	16.98 (-121.13, 158.36)	-75.47 (-224.60, 77.28)	8.31 (-121.30, 133.73)
-16.04 (-156.62, 123.64)	-5.97 (-146.99, 134.45)	11.59 (-105.09, 129.64)	-16.98 (-158.36, 121.13)	Citric acid	-93.20 (-251.02, 70.67)	-8.81 (-150.16, 128.52)
76.58 (-75.07, 226.85)	87.96 (-67.43, 240.46)	104.27 (-25.46, 232.08)	75.47 (-77.28, 224.60)	93.20 (-70.67, 251.02)	Curcumin	83.96 (-67.54, 230.58)
-7.24 (-134.20, 124.72)	3.31 (-126.47, 137.94)	20.26 (-84.91, 126.51)	-8.31 (-133.73, 121.30)	8.81 (-128.52, 150.16)	-83.96 (-230.58, 67.54)	Dexamethasone
2.37 (-128.74, 129.38)	12.45 (-116.69, 141.42)	29.28 (-79.34, 132.96)	0.33 (-131.43, 130.79)	18.13 (-123.93, 156.45)	-75.10 (-228.50, 77.44)	8.05 (-122.98, 138.77)
-27.89 (-159.12, 104.53)	-17.56 (-146.96, 119.53)	-0.37 (-111.21, 112.61)	-29.80 (-159.05, 103.90)	-12.46 (-155.02, 133.16)	-104.20 (-284.35, 51.04)	-21.47 (-155.41, 116.26)
17.28 (-74.19, 106.72)	27.55 (-63.95, 120.59)	44.22 (-9.12, 97.63)	15.79 (-73.73, 105.29)	32.72 (-74.19, 136.88)	-59.55 (-177.74, 61.18)	23.83 (-67.01, 115.54)
-1.74 (-114.62, 105.10)	8.58 (-108.35, 122.61)	25.41 (-58.39, 107.82)	-3.05 (-114.99, 107.60)	14.16 (-110.94, 137.64)	-78.53 (-177.30, 20.89)	4.52 (-110.37, 117.64)
-2.17 (-125.08, 120.70)	7.56 (-115.17, 136.08)	24.95 (-76.76, 125.24)	-3.61 (-128.51, 121.82)	14.28 (-122.55, 148.81)	-79.47 (-206.41, 53.41)	4.87 (-122.34, 126.05)

-2.37 (-129.38, 128.74)	27.89 (-104.53, 159.12)	-17.28 (-106.72, 74.19)	1.74 (-105.10, 114.62)	2.17 (-120.70, 125.08)
-12.45 (-141.42, 116.69)	17.56 (-119.53, 146.96)	-27.55 (-120.59, 63.95)	-8.58 (-122.81, 108.35)	-7.56 (-136.08, 115.17)
-29.28 (-132.96, 79.34)	0.37 (-112.61, 111.21)	-44.22 (-97.63, 9.12)	-25.41 (-107.82, 58.39)	-24.95 (-125.24, 76.76)
-0.33 (-130.79, 131.43)	29.80 (-103.90, 159.05)	-15.79 (-105.29, 73.73)	3.05 (-107.60, 114.99)	3.61 (-121.62, 128.51)
-18.13 (-156.45, 123.93)	12.46 (-133.16, 155.02)	-32.72 (-136.98, 74.19)	-14.16 (-137.64, 110.94)	-14.26 (-148.81, 122.55)
75.10 (-77.44, 228.50)	104.20 (-51.04, 254.35)	59.55 (-61.18, 177.74)	78.53 (-20.89, 177.30)	79.47 (-53.41, 206.41)
-8.05 (-138.77, 122.98)	21.47 (-116.26, 155.41)	-23.83 (-115.54, 67.01)	-4.52 (-117.64, 110.37)	-4.87 (-126.05, 122.34)
Diosmectite	30.09 (-106.17, 161.28)	-15.12 (-108.35, 76.35)	3.98 (-111.06, 115.98)	4.51 (-125.14, 128.72)
-30.09 (-161.28, 106.17)	Laser	-45.27 (-139.60, 55.49)	-26.39 (-140.75, 93.45)	-25.62 (-151.09, 105.28)
15.12 (-76.35, 108.35)	45.27 (-55.49, 139.60)	Placebo	18.87 (-46.25, 86.53)	19.47 (-64.48, 103.92)
-3.98 (-115.58, 111.06)	26.39 (-93.45, 140.75)	-18.87 (-86.53, 46.25)	Triamcinolone	0.91 (-85.34, 85.89)
-4.51 (-128.72, 125.14)	25.62 (-105.28, 151.09)	-19.47 (-103.92, 64.48)	-0.91 (-85.89, 85.34)	Triester Glycerol Oxide

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12
Allicin	0.06	0.07	0.08	0.08	0.09	0.1	0.09	0.08	0.09	0.09	0.11	0.05
Aloe	0.1	0.11	0.11	0.1	0.1	0.09	0.08	0.08	0.06	0.06	0.07	0.03
Amlexanox	0.12	0.19	0.18	0.16	0.12	0.09	0.06	0.03	0.02	0.01	0.01	0
Berberine gelatin	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.1	0.11	0.05
Chitosan	0.19	0.11	0.09	0.08	0.07	0.07	0.06	0.06	0.05	0.07	0.09	0.05
Curcumin	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.06	0.12	0.67
Dexamethasone	0.09	0.1	0.1	0.1	0.1	0.09	0.08	0.08	0.08	0.08	0.08	0.04
Diosmectite	0.06	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.1	0.12	0.05
Laser	0.24	0.15	0.12	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.02
Placebo	0	0	0	0	0.02	0.06	0.12	0.2	0.26	0.21	0.11	0.01
Triamcinolone	0.02	0.05	0.08	0.11	0.12	0.13	0.13	0.11	0.1	0.09	0.05	0
Triester Glycerol Oxide	0.05	0.07	0.08	0.1	0.1	0.11	0.1	0.1	0.09	0.09	0.09	0.03

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	37.38 (15.59, 76.19)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Placebo.Allicin	1.00	
d.Placebo.Aloe	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Dexamethasone	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.TriesterGlycerolOxide	1.00	
d.Triamcinolone.Curcumin	1.00	
sd.d	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

Inference samples : 10,000

Variance scaling factor: 2.5

2.Inconsistency Model

2.1 Summary estimates

Allicin	11.02 (-116.41, 138.17)	26.38 (-81.98, 133.32)	-0.79 (-131.28, 129.26)	14.32 (-129.90, 156.87)	-77.66 (-228.47, 80.35)	6.76 (-124.28, 137.60)	-2.32 (-134.97, 128.16)
-11.02 (-138.17, 116.41)	Aloe	15.64 (-92.45, 118.23)	-13.02 (-140.21, 119.51)	4.33 (-134.66, 145.28)	-88.94 (-236.22, 64.72)	-3.98 (-133.20, 125.94)	-13.14 (-142.28, 115.91)
-26.38 (-133.32, 81.98)	-15.64 (-118.23, 92.45)	Amlexanox	-28.21 (-131.32, 79.57)	-11.61 (-128.42, 111.64)	-104.26 (-232.83, 35.63)	-19.35 (-125.36, 89.58)	-29.13 (-132.43, 78.73)
0.79 (-129.26, 131.28)	13.02 (-119.51, 140.21)	28.21 (-79.57, 131.32)	Berberine gelatin	15.94 (-123.28, 156.78)	-76.58 (-223.88, 77.08)	7.64 (-122.35, 140.77)	-0.99 (-130.73, 131.28)
-14.32 (-156.87, 129.90)	-4.33 (-145.26, 134.66)	11.61 (-111.64, 128.42)	-15.94 (-156.78, 123.28)	Chitosan	-91.50 (-253.93, 71.75)	-8.93 (-150.75, 131.94)	-17.35 (-158.01, 123.59)
-77.66 (-80.35, 228.47)	88.94 (-64.72, 236.22)	104.26 (-35.63, 232.83)	76.58 (-77.08, 223.88)	91.50 (-71.75, 233.93)	Curcumin	85.64 (-74.74, 236.95)	75.67 (-77.29, 223.91)
-6.76 (-137.60, 124.28)	3.98 (-125.94, 133.20)	19.35 (-89.58, 125.36)	-7.64 (-140.77, 122.35)	8.93 (-131.94, 150.75)	-85.64 (-236.95, 74.74)	Dexamethasone	-9.06 (-139.83, 120.66)
2.32 (-128.16, 134.97)	13.14 (-115.91, 142.28)	29.13 (-78.73, 132.43)	0.99 (-131.28, 130.73)	17.35 (-123.59, 158.01)	-75.67 (-223.91, 77.29)	9.06 (-120.66, 139.83)	Diosmectite
-27.16 (-165.93, 109.42)	-16.33 (-153.62, 115.27)	-0.49 (-114.89, 108.54)	-29.07 (-165.14, 107.03)	-12.50 (-156.59, 132.81)	-104.23 (-262.11, 52.96)	-20.49 (-158.08, 117.93)	-29.90 (-168.42, 104.95)
17.52 (-75.60, 110.39)	28.60 (-63.60, 120.12)	44.26 (-12.35, 95.21)	16.02 (-73.85, 107.74)	32.91 (-73.57, 141.03)	-59.66 (-176.85, 63.54)	24.42 (-67.05, 116.81)	15.42 (-76.81, 108.33)
-1.07 (-117.50, 113.23)	9.60 (-101.39, 120.61)	25.36 (-61.67, 106.44)	-2.35 (-113.55, 109.98)	13.77 (-112.56, 139.67)	-78.85 (-179.98, 23.50)	5.47 (-112.01, 118.98)	-3.66 (-119.12, 110.15)
-1.41 (-130.92, 124.43)	9.48 (-115.20, 132.44)	25.13 (-78.83, 124.35)	-3.17 (-129.49, 123.52)	13.17 (-126.36, 151.37)	-78.80 (-212.87, 55.41)	5.12 (-122.42, 134.34)	-4.08 (-133.47, 122.16)

27.16 (-109.42, 165.93)	-17.52 (-110.39, 75.60)	1.07 (-113.23, 117.50)	1.41 (-124.43, 130.92)
16.33 (-115.27, 153.62)	-28.60 (-120.12, 63.60)	-9.60 (-120.61, 101.39)	-9.48 (-132.44, 115.20)
0.49 (-108.54, 114.89)	-44.26 (-95.21, 12.35)	-25.36 (-106.44, 61.67)	-25.13 (-124.35, 78.83)
29.07 (-107.03, 165.14)	-16.02 (-107.74, 73.85)	2.35 (-109.98, 113.55)	3.17 (-123.52, 129.49)
12.50 (-132.81, 156.59)	-32.91 (-141.03, 73.57)	-13.77 (-139.67, 112.56)	-13.17 (-151.37, 126.36)
104.23 (-52.96, 262.11)	59.66 (-63.54, 176.85)	78.85 (-23.50, 179.98)	78.80 (-55.41, 212.67)
20.49 (-117.93, 159.08)	-24.42 (-116.81, 67.05)	-5.47 (-118.98, 112.01)	-5.12 (-134.34, 122.42)
29.90 (-104.95, 168.42)	-15.42 (-108.33, 76.81)	3.66 (-110.15, 119.12)	4.08 (-122.16, 133.47)
Laser			
45.02 (-53.44, 145.41)	Placebo	19.00 (-44.19, 85.78)	18.82 (-66.02, 107.07)
26.29 (-95.25, 144.49)		Triamcinolone	0.40 (-94.69, 85.99)
25.94 (-104.19, 156.16)	-18.82 (-107.07, 66.02)	-0.40 (-85.98, 84.69)	Triester Glycerol Oxide

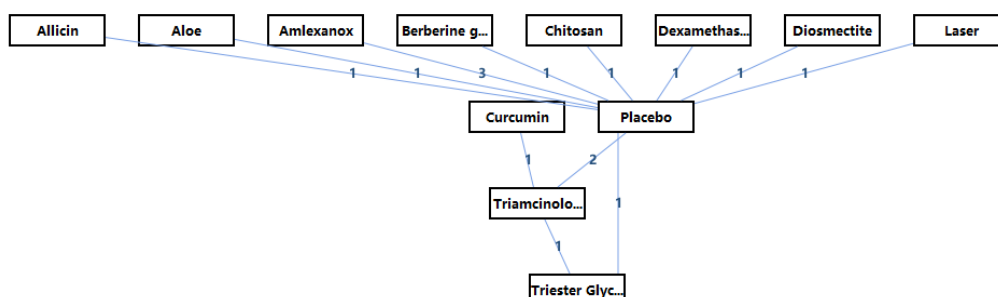
2.2 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	37.78 (15.91, 76.37)
Inconsistency Standard Deviation	40.92 (1.92, 79.05)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Alicin.Placebo	1.00	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Placebo.Aloe	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Dexamethasone	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Triamcinolone	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
sd.d	1.00	
sd.w	1.00	

3. Network structure



Day 7

1. Consistency Model

1.1 Summary estimates

Alice		22.98 (-72.30, 116.68)	7.61 (-67.80, 87.05)	17.51 (-32.36, 69.90)	30.72 (-41.26, 103.68)	1.51 (-53.91, 54.32)	-1.49 (-40.02, 38.76)	19.31 (-62.63, 98.64)	11.29 (-36.97, 57.19)	10.57 (-60.92, 82.67)
	Anhlexox		-14.83 (-123.11, 94.37)	-5.20 (-99.55, 92.58)	7.85 (-52.11, 69.04)	-21.04 (-115.09, 74.25)	-24.15 (-107.89, 62.93)	-3.80 (-118.51, 113.03)	-11.90 (-106.25, 83.03)	-12.90 (-116.33, 92.88)
-22.98 (-116.68, 72.30)			Cryohearp							
-7.61 (-87.05, 67.80)	14.83 (-94.37, 123.11)			9.45 (-67.42, 86.54)	22.95 (-69.11, 113.10)	-6.19 (-83.99, 69.68)	-8.97 (-74.43, 57.58)	11.29 (-89.63, 111.97)	3.13 (-73.53, 78.31)	2.09 (-85.42, 90.44)
-17.51 (-69.90, 32.36)	5.20 (-92.58, 99.55)	-9.45 (-86.54, 67.42)		Curcumin						
-30.72 (-103.68, 41.26)	-7.85 (-69.04, 52.11)	-22.95 (-113.10, 69.11)	-13.29 (-84.05, 62.43)		Dexamethasone					
-1.51 (-54.32, 53.91)	21.04 (-74.25, 115.09)	6.19 (-69.68, 83.99)	15.82 (-32.76, 68.40)	29.81 (-44.40, 102.89)		Liver	-2.75 (-42.46, 39.73)	17.52 (-62.75, 98.25)	9.18 (-36.24, 56.85)	8.54 (-61.04, 82.65)
1.49 (-38.76, 40.02)	24.15 (-62.93, 107.89)	8.97 (-57.58, 74.43)	18.81 (-22.56, 58.53)	31.99 (-30.21, 91.88)	2.75 (-39.73, 42.46)		Pancreo	20.48 (-57.48, 95.11)	12.40 (-27.35, 48.50)	11.27 (-48.66, 71.68)
-19.31 (-98.64, 62.63)	3.80 (-113.03, 118.51)	-11.29 (-111.97, 89.63)	-1.58 (-73.91, 70.79)	12.12 (-86.68, 108.89)	-17.52 (-98.25, 62.75)			Probiotics	-8.36 (-72.45, 57.30)	-9.85 (-103.78, 90.18)
-11.29 (-57.19, 36.97)	11.90 (-83.03, 106.25)	-3.13 (-78.31, 73.53)	6.45 (-23.82, 38.17)	19.79 (-53.26, 92.09)	-9.18 (-56.65, 36.24)		-12.40 (-48.50, 27.35)	8.36 (-57.30, 72.45)		
-10.57 (-82.67, 60.92)	12.90 (-92.88, 116.33)	-2.09 (-90.44, 85.42)	7.93 (-67.69, 79.71)	20.93 (-65.72, 105.32)	-8.54 (-82.65, 61.04)		-11.27 (-71.68, 48.66)	9.85 (-90.18, 103.78)	1.55 (-72.37, 71.30)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10
Aloe	0.02	0.03	0.05	0.08	0.1	0.12	0.13	0.14	0.17	0.15
Amlexanox	0.22	0.18	0.11	0.08	0.06	0.05	0.05	0.06	0.07	0.14
Cryotherapy	0.12	0.09	0.1	0.09	0.07	0.07	0.08	0.08	0.1	0.19
Curcumin	0.07	0.12	0.17	0.17	0.16	0.11	0.08	0.05	0.04	0.02
Dexamethasone	0.22	0.26	0.14	0.09	0.07	0.06	0.04	0.04	0.05	0.02
Laser	0.02	0.04	0.07	0.09	0.11	0.12	0.13	0.14	0.15	0.14
Placebo	0	0	0.01	0.04	0.08	0.15	0.22	0.24	0.18	0.06
Probiotics	0.22	0.12	0.12	0.09	0.07	0.06	0.06	0.06	0.08	0.13
Triamcinolone	0.02	0.06	0.11	0.16	0.18	0.16	0.13	0.1	0.06	0.02
Zinc	0.1	0.09	0.11	0.11	0.09	0.08	0.08	0.08	0.11	0.14

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	26.48 (14.59, 42.00)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Dexamethasone.Amlexanox	1.00	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Placebo.Aloe	1.00	
d.Placebo.Cryotherapy	1.00	
d.Placebo.Curcumin	1.00	
d.Placebo.Dexamethasone	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.Zinc	1.08	
d.Triamcinolone.Probiotics	1.00	
sd.d	1.00	

2.Inconsistency Model

2.1 Summary estimates

Aloe	33.62 (-71.30, 121.56)	19.16 (-62.12, 94.32)	25.93 (-27.75, 82.30)	42.01 (-36.59, 112.30)
-33.62 (-121.56, 71.30)	Amlexanox	-13.90 (-111.30, 95.87)	-7.61 (-92.14, 99.05)	8.79 (-45.54, 70.54)
-19.16 (-94.32, 62.12)	13.90 (-95.87, 111.30)	Cryotherapy	6.54 (-65.95, 87.87)	22.95 (-65.80, 106.17)
-25.93 (-82.30, 27.75)	7.61 (-99.05, 92.14)	-6.54 (-87.87, 65.95)	Curcumin	16.20 (-61.83, 84.07)
-42.01 (-112.30, 36.39)	-8.79 (-70.54, 45.54)	-22.95 (-106.17, 65.80)	-16.20 (-84.07, 61.83)	Dexamethasone
4.33 (-58.48, 76.81)	37.87 (-62.50, 129.84)	23.46 (-57.34, 110.14)	29.10 (-22.76, 99.13)	45.46 (-30.81, 131.12)
-9.80 (-53.15, 38.22)	23.17 (-64.26, 102.43)	9.08 (-54.18, 73.81)	15.75 (-21.20, 61.04)	31.69 (-28.40, 90.43)
-27.77 (-113.34, 54.29)	5.55 (-122.60, 109.33)	-8.91 (-114.44, 86.43)	-2.27 (-72.44, 67.74)	14.03 (-89.97, 104.05)
-11.68 (-59.88, 33.13)	13.71 (-93.74, 99.95)	-0.71 (-81.00, 72.53)	5.83 (-24.00, 36.04)	21.97 (-56.72, 89.39)
-20.29 (-110.20, 56.75)	15.54 (-120.92, 110.18)	-1.49 (-104.86, 84.59)	5.09 (-76.86, 76.53)	21.77 (-81.36, 103.23)

-4.33 (-76.81, 58.48)	9.80 (-89.22, 53.15)	27.77 (-54.29, 113.34)	11.68 (-331.3, 59.38)	20.29 (-56.75, 110.20)
-37.87 (-129.94, 62.50)	-23.17 (-102.43, 64.26)	-5.55 (-109.33, 122.60)	-13.71 (-98.95, 93.74)	-15.54 (-110.18, 120.92)
-23.46 (-110.14, 57.34)	-9.08 (-73.81, 54.18)	8.91 (-86.43, 114.44)	0.71 (-72.53, 81.00)	1.49 (-84.59, 104.86)
-29.10 (-99.13, 22.76)	-15.75 (-61.04, 21.20)	2.27 (-67.74, 72.44)	-5.83 (-36.04, 24.00)	-5.09 (-76.53, 76.86)
-45.46 (-131.12, 30.81)	-31.69 (-90.43, 28.40)	-14.03 (-104.05, 88.97)	-21.97 (-89.39, 56.72)	-21.77 (-103.23, 81.36)
Laser	2.31 (-34.42, 51.17)	32.76 (-47.72, 124.01)	22.53 (-24.80, 90.69)	21.50 (-61.85, 142.39)
-2.31 (-51.17, 34.42)	Placebo	18.04 (-53.35, 97.69)	28.55 (-17.58, 69.69)	8.90 (-49.65, 90.80)
-32.76 (-124.01, 47.72)	-18.04 (-97.69, 53.35)	Probiotics	-8.36 (-71.91, 55.53)	-7.36 (-103.84, 95.96)
-22.53 (-90.69, 24.80)	-28.55 (-69.69, 17.58)	8.36 (-55.53, 71.91)	Triamcinolone	1.04 (-68.99, 79.48)
-21.50 (-142.39, 61.85)	-8.90 (-90.80, 49.65)	7.36 (-95.96, 103.84)	-1.04 (-79.48, 68.99)	Zinc

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Aloe, Curcumin, Placebo, Triamcinolone	5.55 (-30.60, 51.07)
Curcumin, Laser, Placebo, Triamcinolone	6.31 (-29.65, 67.59)
Curcumin, Placebo, Triamcinolone	14.09 (-19.30, 61.60)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	24.40 (7.05, 41.92)
Inconsistency Standard Deviation	23.30 (1.93, 42.57)

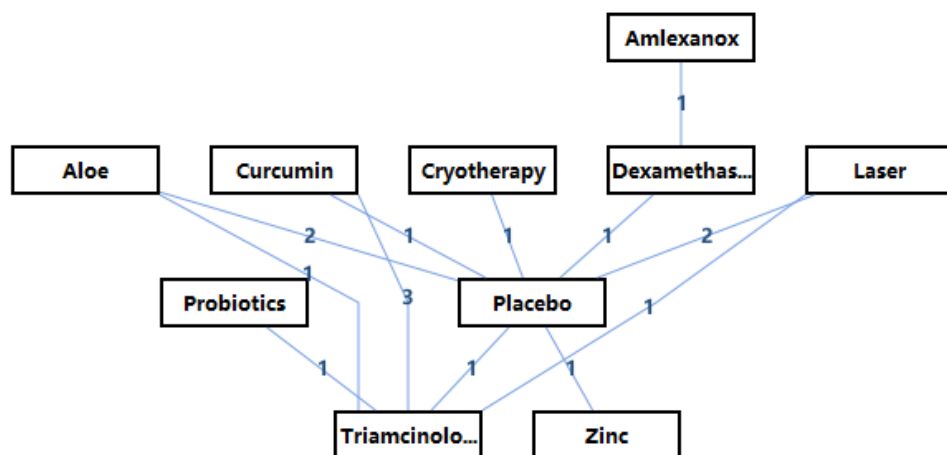
2.4 Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.01	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Curcumin.Triamcinolone	1.01	
d.Dexamethasone.Amlexanox	1.19	
d.Placebo.Cryotherapy	1.00	
d.Placebo.Curcumin	1.06	
d.Placebo.Dexamethasone	1.00	
d.Placebo.Zinc	1.68	
d.Triamcinolone.Laser	1.76	
d.Triamcinolone.Probiotics	1.00	
w.Aloe.Placebo.Curcumin.Triamc...	1.01	
w.Curcumin.Placebo.Laser.Triam...	1.12	
w.Curcumin.Placebo.Triamcinolo...	1.01	
sd.d	1.06	
sd.w	1.01	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Aloe, Triamcinolone	10.03 (-46.07, 70.52)	-9.03 (-74.33, 57.86)	11.29 (-36.97, 57.19)	0.61
Curcumin, Placebo	-2.09 (-60.34, 56.28)	-35.17 (-91.21, 21.28)	-18.81 (-58.53, 22.56)	0.37
Curcumin, Triamcinolone	-11.53 (-47.40, 20.19)	21.25 (-54.91, 92.39)	-6.45 (-38.17, 23.82)	0.37
Laser, Placebo	-1.56 (-49.22, 50.99)	-4.35 (-85.85, 79.11)	-2.75 (-42.46, 39.73)	0.95
Laser, Triamcinolone	7.43 (-63.13, 77.77)	11.55 (-52.61, 77.03)	9.18 (-36.24, 56.85)	0.94
Placebo, Triamcinolone	39.96 (-19.36, 97.87)	-2.85 (-56.38, 47.59)	12.40 (-27.35, 48.50)	0.24

4. Network structure



Day 10

1. Consistency Model

1.1 Summary estimates

Aloe	13.96 (-29.65, 55.90)	3.25 (-36.87, 47.86)	12.45 (-36.52, 60.32)	13.85 (-25.91, 53.36)	0.00 (-26.04, 26.61)	1.69 (-51.49, 55.64)	13.79 (-25.69, 53.29)
-13.96 (-55.90, 29.65)	Benzydamine	-9.56 (-50.22, 33.82)	-2.12 (-43.76, 40.48)	-0.37 (-30.60, 32.31)	-13.98 (-47.18, 20.09)	-10.43 (-60.34, 38.18)	-0.57 (-30.48, 32.00)
-3.25 (-47.86, 36.87)	9.56 (-33.82, 50.22)	Cryotherapy	8.31 (-40.40, 54.07)	10.44 (-29.11, 47.49)	-3.15 (-38.60, 26.33)	-2.21 (-55.58, 50.46)	10.42 (-29.48, 47.90)
-12.45 (-60.32, 36.52)	2.12 (-40.48, 43.76)	-8.31 (-54.07, 40.40)	Curcumin	1.42 (-34.98, 40.13)	-12.39 (-52.12, 27.94)	-9.03 (-56.31, 35.82)	1.50 (-26.29, 29.96)
-13.85 (-53.36, 25.91)	0.37 (-32.31, 30.60)	-10.44 (-47.49, 29.11)	-1.42 (-40.13, 34.98)	Doxycycline	-13.86 (-42.66, 14.13)	-11.12 (-57.56, 32.92)	0.03 (-26.40, 25.94)
-0.00 (-26.61, 26.04)	13.98 (-20.09, 47.18)	3.15 (-26.33, 38.60)	12.39 (-27.94, 52.12)	13.86 (-14.13, 42.66)	Placebo	1.72 (-43.99, 50.06)	13.79 (-14.33, 42.93)
-1.69 (-55.64, 51.49)	10.43 (-38.18, 60.34)	2.21 (-50.46, 55.58)	9.03 (-35.82, 56.31)	11.12 (-32.92, 57.56)	-1.72 (-50.06, 43.99)	Probiotics	11.45 (-25.77, 49.21)
-13.79 (-53.29, 25.69)	0.57 (-32.00, 30.48)	-10.42 (-47.90, 29.48)	-1.50 (-29.96, 26.29)	-0.03 (-25.94, 26.40)	-13.79 (-42.93, 14.33)	-11.45 (-49.21, 25.77)	Triamcinolone

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8
Aloe	0.05	0.05	0.06	0.07	0.11	0.17	0.25	0.25
Benzydamine	0.28	0.16	0.12	0.14	0.12	0.09	0.06	0.05
Cryotherapy	0.09	0.08	0.08	0.1	0.17	0.18	0.14	0.16
Curcumin	0.2	0.15	0.13	0.16	0.13	0.1	0.07	0.06
Doxycycline	0.15	0.22	0.23	0.18	0.11	0.06	0.03	0.02
Placebo	0.01	0.03	0.04	0.08	0.14	0.24	0.31	0.15
Probiotics	0.13	0.07	0.06	0.07	0.13	0.11	0.11	0.31
Triamcinolone	0.09	0.24	0.29	0.2	0.1	0.06	0.02	0

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	10.38 (0.44, 20.77)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Placebo.Aloe	1.00	Number of chains : 4
d.Placebo.Benzydamine	1.15	Tuning iterations : 20,000
d.Placebo.Cryotherapy	1.67	Simulation iterations : 50,000
d.Placebo.Doxycycline	1.27	Thinning interval : 10
d.Placebo.Triamcinolone	1.26	Inference samples : 10,000
d.Triamcinolone.Curcumin	1.00	Variance scaling factor: 2.5
d.Triamcinolone.Probiotics	1.00	
sd.d	1.01	

2.Inconsistency Model

2.1 Summary estimates

Aloe	26.37 (-19.12, 69.63)	0.52 (-41.67, 46.63)	20.10 (-30.64, 69.96)	21.36 (-21.09, 62.32)	0.02 (-26.07, 27.39)	9.32 (-46.39, 65.06)	21.39 (-20.86, 62.61)
-26.37 (-69.63, 19.12)	Benzydamine	-25.64 (-77.97, 27.56)	-6.82 (-47.81, 36.07)	-5.16 (-35.60, 26.67)	-26.05 (-62.30, 11.77)	-16.63 (-64.92, 33.82)	-5.12 (-35.69, 25.80)
-0.52 (-46.63, 41.67)	25.64 (-27.56, 77.97)	Cryotherapy	19.40 (-36.75, 73.93)	21.06 (-29.33, 67.48)	-0.54 (-37.73, 34.47)	8.98 (-54.23, 68.23)	21.16 (-28.45, 66.85)
-20.10 (-69.96, 30.64)	6.82 (-36.07, 47.81)	-19.40 (-73.93, 36.75)	Curcumin	1.73 (-36.30, 40.16)	-19.56 (-61.73, 23.43)	-10.75 (-57.04, 37.09)	1.66 (-26.46, 29.11)
-21.36 (-62.32, 21.09)	5.16 (-26.67, 35.60)	-21.06 (-67.48, 29.33)	-1.73 (-40.16, 36.30)	Doxycycline	-20.91 (-53.45, 12.42)	-12.71 (-56.36, 35.87)	0.04 (-27.09, 25.96)
-0.02 (-27.39, 26.07)	26.05 (-11.77, 62.30)	0.54 (-34.47, 37.73)	19.56 (-23.43, 61.73)	20.91 (-12.42, 53.45)	Placebo	9.30 (-40.48, 59.12)	21.25 (-12.39, 53.05)
-9.32 (-65.06, 46.39)	16.63 (-33.82, 64.92)	-8.98 (-68.23, 54.23)	10.75 (-37.09, 57.04)	12.71 (-35.87, 56.36)	-9.30 (-59.12, 40.48)	Probiotics	12.23 (-26.64, 49.63)
-21.39 (-62.61, 20.86)	5.12 (-25.80, 35.69)	-21.16 (-66.85, 28.45)	-1.66 (-29.11, 26.46)	-0.04 (-25.96, 27.09)	-21.25 (-53.05, 12.39)	-12.23 (-49.63, 26.64)	Triamcinolone

2.2 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	10.63 (0.61, 20.75)
Inconsistency Standard Deviation	10.50 (0.51, 20.74)

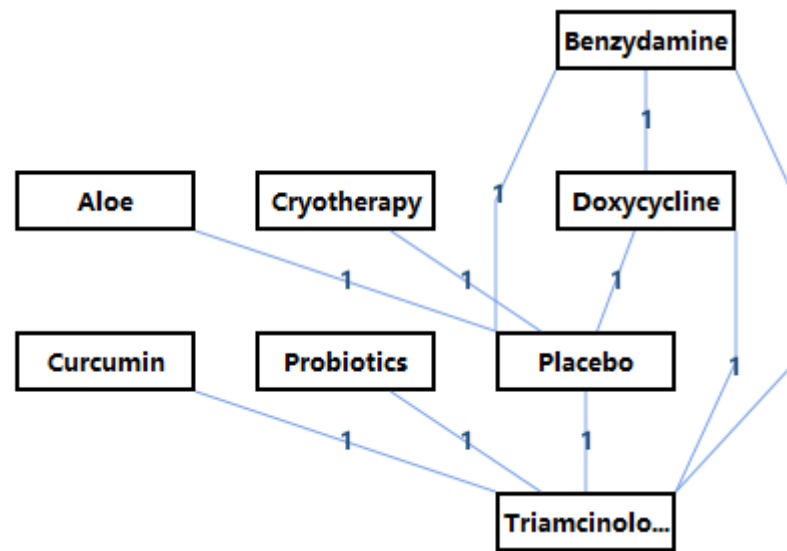
2. Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.00	Number of chains : 4
d.Benzydamine.Doxycycline	1.52	Tuning iterations : 20,000
d.Doxycycline.Triamcinolone	1.00	Simulation iterations : 50,000
d.Placebo.Benzydamine	1.34	Thinning interval : 10
d.Placebo.Cryotherapy	1.00	Inference samples : 10,000
d.Triamcinolone.Curcumin	1.00	Variance scaling factor: 2.5
d.Triamcinolone.Probiotics	1.00	
sd.d	1.00	
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Placebo, Triamcinolone	11.40 (-33.38, 50.39)	4.38 (-627.78, 629.87)	13.79 (-14.33, 42.93)	0.99

4. Network structure



Chapter S3 Symptom-reducing effect

1.Consistency Model

Summary estimates for Symptom-reducing effect

The estimate values for symptom-reducing effect are given as mean difference (MD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Mean	-1113 (-69.75, 47.06)	-048 (-51.98, 51.98)	-681 (-69.49, 57.85)	-733 (-75.31, 59.28)	-1521 (-67.00, 56.61)	435 (-63.41, 74.46)	878 (-53.20, 68.00)	-510 (-45.50, 52.19)	-624 (-74.41, 60.99)
1113 (-47.06, 69.75)	Alco	1104 (-26.53, 49.29)	446 (-46.64, 57.67)	364 (-54.99, 64.38)	-378 (-66.84, 59.91)	1557 (-43.06, 75.11)	1952 (-26.95, 67.12)	573 (-44.96, 54.53)	517 (-59.64, 63.57)
046 (-51.98, 51.98)	-1104 (-49.29, 26.53)	Amoxiclav	-604 (-49.98, 36.96)	-713 (-59.15, 45.02)	-1516 (-71.55, 42.48)	510 (-47.83, 56.04)	819 (-30.35, 48.31)	-515 (-39.52, 29.55)	-578 (-57.62, 44.66)
681 (-57.85, 69.49)	-446 (-57.67, 46.64)	604 (-36.96, 49.98)	Benzocaine	-133 (-63.47, 63.12)	-829 (-76.68, 57.75)	1127 (-52.03, 74.46)	1444 (-35.37, 65.93)	117 (-51.24, 53.76)	060 (-63.32, 62.90)
733 (-59.28, 76.31)	-364 (-64.38, 54.99)	713 (-45.02, 58.15)	133 (-63.12, 63.47)	Betterer pain	-791 (-78.66, 64.66)	1200 (-58.02, 62.88)	1563 (-43.16, 75.95)	228 (-58.73, 61.93)	147 (-67.67, 69.65)
1521 (-67.00, 67.00)	378 (-59.91, 66.94)	1516 (-42.48, 71.55)	829 (-57.75, 76.68)	791 (-64.66, 78.66)	Chinoin	1992 (-53.93, 83.32)	2357 (-41.96, 86.94)	974 (-56.05, 72.70)	929 (-63.25, 78.58)
-435 (-74.46, 63.41)	-1557 (-75.11, 43.06)	-510 (-58.04, 47.83)	-1122 (-74.46, 52.03)	-1200 (-62.88, 58.02)	-1992 (-93.32, 53.93)	Chlorothaliv	385 (-53.55, 60.13)	-978 (-72.01, 50.47)	-1064 (-80.90, 59.14)
-878 (-68.00, 53.20)	-1952 (-72.12, 26.95)	-819 (-48.31, 30.35)	-1444 (-65.83, 35.97)	-1563 (-75.95, 43.16)	-2357 (-86.94, 41.96)	-381 (-60.13, 53.95)	Cucurin	-1319 (-63.86, 34.96)	-1412 (-74.81, 46.31)
510 (-52.19, 65.20)	-573 (-54.53, 41.96)	515 (-29.62, 39.53)	-117 (-50.76, 51.24)	-228 (-61.93, 58.73)	-974 (-72.70, 55.05)	978 (-50.47, 72.01)	1319 (-34.96, 63.86)	Dexamethasone	-100 (-60.79, 58.99)
624 (-60.86, 74.41)	-517 (-63.37, 53.64)	578 (-44.66, 57.68)	-604 (-62.90, 63.32)	-147 (-69.65, 67.67)	-929 (-78.93, 63.25)	1064 (-58.14, 60.90)	1412 (-46.31, 74.81)	1007 (-59.93, 67.79)	Dexamethasone
1380 (-40.31, 67.06)	273 (-38.11, 42.59)	1341 (-16.87, 43.26)	707 (-35.26, 48.88)	614 (-47.12, 59.18)	-190 (-59.23, 56.75)	1851 (-36.62, 73.79)	2194 (-19.85, 64.81)	836 (-39.93, 59.47)	75 (-47.24, 60.81)
230 (-51.28, 57.04)	-856 (-50.29, 31.57)	207 (-26.50, 31.34)	-397 (-51.06, 41.89)	-515 (-59.03, 49.13)	-1285 (-70.28, 45.70)	703 (-48.88, 62.80)	1059 (-30.93, 54.27)	-278 (-45.77, 38.95)	-348 (-58.22, 50.02)
-2260 (-69.40, 46.50)	-2367 (-94.40, 27.91)	-2317 (-74.90, 31.19)	-2930 (-91.86, 35.12)	-3025 (-98.02, 38.57)	-3785 (-107.64, 34.45)	-1790 (-67.36, 55.52)	-1462 (-73.86, 48.19)	-2777 (-86.91, 32.53)	-2837 (-86.07, 40.42)
-888 (-58.79, 42.10)	-1967 (-56.44, 16.80)	-895 (-31.73, 14.74)	-1560 (-58.55, 27.47)	-1620 (-66.31, 34.94)	-2298 (-78.47, 39.41)	-3386 (-45.28, 48.70)	-048 (-37.26, 36.66)	-1400 (-51.54, 23.57)	-1494 (-65.76, 36.07)
-1342 (-101.20, 72.44)	-2428 (-105.48, 53.55)	-1326 (-88.22, 59.65)	-2006 (-101.17, 62.00)	-2104 (-108.15, 64.66)	-2855 (-120.37, 61.91)	-830 (-41.99, 42.94)	-473 (-62.45, 70.35)	-1859 (-99.83, 60.50)	-1927 (-108.16, 67.11)
2368 (-23.63, 71.40)	1251 (-21.63, 40.30)	2326 (4.15, 42.15)	1716 (-24.03, 57.33)	1608 (-31.45, 65.31)	808 (-44.73, 62.88)	2819 (-21.68, 80.09)	3175 (-3.69, 68.34)	1831 (-16.50, 52.81)	1741 (-31.22, 65.56)
1832 (-38.88, 77.09)	738 (-38.47, 52.86)	1811 (-19.40, 54.55)	1177 (-38.87, 64.16)	1076 (-46.05, 69.73)	314 (-57.41, 65.31)	2252 (-37.53, 64.26)	2648 (-21.04, 74.20)	1286 (-34.61, 60.46)	1207 (-44.86, 68.66)
-032 (-80.47, 81.21)	-1187 (-84.22, 61.96)	-045 (-68.52, 67.87)	-641 (-59.13, 44.18)	-793 (-89.00, 72.93)	-153 (-99.54, 68.35)	457 (-76.78, 85.38)	754 (-43.88, 81.64)	-602 (-73.57, 66.88)	-696 (-87.12, 75.67)
-267 (-71.14, 65.26)	-1375 (-71.36, 45.54)	-277 (-53.37, 48.34)	-883 (-72.51, 53.97)	-1003 (-75.82, 57.53)	-1821 (-89.10, 54.22)	221 (-68.39, 73.94)	557 (-52.32, 66.02)	-841 (-45.11, 51.65)	-851 (-75.81, 59.70)
-1131 (-96.64, 72.67)	-2259 (-98.43, 53.59)	-1174 (-82.70, 61.38)	-1800 (-46.56, 61.93)	-1933 (-102.53, 66.83)	-2701 (-116.27, 62.94)	-667 (-43.92, 41.44)	-332 (-77.49, 71.95)	-1691 (-94.24, 61.68)	-1737 (-102.73, 68.10)
-501 (-56.21, 46.14)	-1602 (-51.47, 18.38)	-498 (-29.39, 18.10)	-1121 (-52.26, 29.12)	-1239 (-63.00, 38.53)	-2031 (-75.42, 36.43)	-038 (-47.33, 47.38)	311 (-27.44, 34.40)	-1019 (-49.11, 28.52)	-1127 (-63.29, 40.42)
-061 (-64.30, 63.96)	-1217 (-64.83, 41.05)	-100 (-46.83, 44.17)	-718 (-64.49, 42.29)	-813 (-71.00, 54.56)	-1641 (-82.53, 52.68)	383 (-60.21, 66.49)	729 (-44.85, 59.78)	-633 (-80.21, 47.23)	-796 (-71.51, 56.74)
1385 (-53.92, 82.30)	257 (-58.36, 61.57)	1382 (-38.34, 65.86)	700 (-55.47, 69.16)	646 (-59.88, 75.09)	-134 (-72.17, 70.89)	1850 (-52.45, 89.74)	2182 (-37.45, 82.78)	875 (-52.20, 67.58)	768 (-61.58, 74.55)

-12.80 (-67.06, 40.31)	-2.30 (-57.04, 51.28)	22.60 (-46.50, 89.40)	8.88 (-42.10, 59.79)	13.42 (-72.54, 101.20)	-23.88 (-71.40, 23.63)	-18.32 (-77.09, 38.88)	0.32 (-81.21, 80.47)	2.67 (-46.56, 71.14)	11.31 (-72.67, 95.64)	5.01 (-46.14, 56.23)	0.81 (-63.96, 64.30)	-13.95 (-62.30, 53.92)
-2.73 (-42.52, 39.11)	8.56 (-31.57, 50.29)	33.67 (-27.91, 94.40)	19.67 (-16.60, 56.44)	24.26 (-53.55, 106.48)	-12.51 (-46.30, 21.63)	-7.28 (-52.86, 39.47)	11.87 (-61.96, 84.22)	13.76 (-45.54, 71.36)	22.59 (-53.39, 99.43)	16.02 (-19.38, 51.47)	12.17 (-41.05, 64.93)	-2.57 (-61.57, 59.56)
-13.41 (-43.26, 16.87)	-2.07 (-31.34, 26.50)	23.17 (-31.19, 74.90)	8.95 (-14.74, 31.73)	13.26 (-59.65, 88.22)	-23.28 (-42.15, -4.15)	-18.11 (-54.95, 19.40)	0.45 (-67.68, 82)	2.77 (-48.34, 53.37)	11.74 (-61.38, 82.70)	4.98 (-18.10, 23.39)	1.00 (-44.17, 46.93)	-13.62 (-65.86, 38.34)
-7.07 (-48.88, 35.26)	3.97 (-41.88, 51.06)	29.10 (-35.12, 91.89)	15.06 (-27.47, 59.35)	20.06 (-62.01, 101.17)	-17.18 (-57.33, 24.03)	-11.77 (-64.16, 38.87)	6.41 (-44.18, 59.13)	8.83 (-53.97, 72.51)	18.00 (-61.93, 96.26)	11.21 (-29.12, 52.26)	7.18 (-49.25, 64.49)	-7.00 (-69.16, 55.47)
-6.14 (-59.18, 47.12)	5.15 (-49.13, 59.03)	30.25 (-38.57, 99.02)	16.20 (-34.94, 68.31)	21.04 (-64.66, 108.15)	-1.66 (-65.31, 31.45)	-10.76 (-60.73, 48.05)	7.93 (-72.93, 89.00)	10.05 (-57.53, 75.62)	19.33 (-65.83, 102.53)	12.39 (-39.53, 63.00)	8.13 (-54.56, 71.00)	-6.46 (-75.09, 59.99)
1.90 (-56.75, 59.23)	12.85 (-45.70, 70.28)	37.85 (-34.95, 107.64)	23.98 (-32.41, 79.47)	28.55 (-61.91, 120.37)	-8.08 (-62.68, 44.73)	-3.14 (-65.31, 57.14)	15.53 (-89.35, 99.54)	18.21 (-54.22, 89.10)	27.01 (-62.04, 116.27)	20.31 (-38.43, 75.42)	18.41 (-52.89, 83.29)	1.34 (-70.89, 72.17)
-18.51 (-73.73, 36.62)	-7.03 (-62.80, 48.98)	17.90 (-55.52, 87.30)	3.98 (-48.70, 55.28)	8.90 (-42.94, 61.99)	-28.18 (-40.09, 21.68)	-22.52 (-84.26, 37.53)	-4.57 (-85.38, 76.78)	-2.21 (-73.94, 68.39)	6.67 (-41.44, 53.92)	0.58 (-47.98, 47.33)	-3.83 (-66.48, 60.21)	-18.50 (-89.74, 52.45)
-21.94 (-64.81, 19.83)	-10.59 (-54.27, 30.93)	14.62 (-48.19, 73.83)	0.48 (-30.66, 37.26)	4.72 (-70.35, 82.45)	-31.75 (-68.34, 3.69)	-26.48 (-74.20, 21.04)	-7.54 (-81.64, 63.98)	-5.57 (-66.02, 52.32)	3.32 (-71.95, 77.49)	-3.11 (-39.40, 27.44)	-7.28 (-59.76, 44.85)	-21.82 (-82.78, 37.45)
-8.86 (-50.47, 33.83)	2.78 (-38.96, 48.77)	27.77 (-32.53, 86.91)	14.00 (-23.57, 51.54)	18.88 (-60.50, 99.83)	-18.31 (-52.81, 16.50)	-12.86 (-60.46, 34.61)	6.02 (-66.86, 79.37)	8.41 (-51.66, 66.11)	16.01 (-61.68, 94.24)	10.19 (-28.52, 49.11)	6.33 (-47.23, 60.21)	-8.75 (-67.98, 52.20)
-7.53 (-60.81, 47.34)	3.48 (-50.02, 58.22)	28.37 (-40.42, 98.07)	14.94 (-38.07, 65.78)	19.37 (-67.11, 108.16)	-17.41 (-45.56, 31.22)	-12.07 (-68.66, 44.86)	6.96 (-75.67, 87.12)	8.51 (-59.70, 75.81)	17.37 (-68.10, 102.73)	11.27 (-40.42, 63.29)	7.06 (-56.74, 71.51)	-7.88 (-74.55, 61.58)
Dynamic	11.30 (-22.44, 43.57)	36.17 (-19.34, 90.43)	22.38 (-47.76, 50.25)	27.17 (-48.19, 103.87)	-10.00 (-34.51, 13.65)	-4.72 (-44.91, 35.41)	13.99 (-50.83, 79.24)	16.02 (-37.94, 68.53)	25.11 (-48.92, 97.55)	18.39 (-9.26, 46.67)	14.35 (-33.89, 61.84)	-0.71 (-53.33, 52.75)
-11.30 (-43.51, 22.44)	Dynamic	25.07 (-30.21, 79.20)	11.08 (-16.23, 38.16)	15.88 (-59.61, 92.11)	-2.11 (-44.22, 2.27)	-16.00 (-56.40, 25.25)	2.76 (-66.14, 71.12)	5.25 (-45.45, 57.80)	13.76 (-59.97, 87.11)	7.30 (-21.39, 36.03)	3.33 (-45.32, 50.78)	-11.45 (-60.11, 42.06)
-38.17 (-90.45, 19.34)	-25.07 (-79.20, 30.21)	Dynamic	-14.15 (-65.20, 39.06)	-9.53 (-95.34, 81.53)	-46.48 (-94.73, 3.77)	-40.82 (-90.20, 18.50)	-22.63 (-103.13, 59.67)	-20.12 (-87.61, 47.67)	-11.79 (-56.27, 74.71)	-17.95 (-49.46, 36.39)	-21.61 (-86.94, 44.52)	-36.23 (-104.82, 33.91)
-22.35 (-50.25, 6.76)	-11.08 (-38.16, 16.23)	14.15 (-38.06, 65.20)	Linear	4.53 (-67.96, 79.56)	-32.21 (-48.08, -16.39)	-28.83 (-62.81, 8.51)	-8.44 (-74.54, 58.20)	-6.07 (-56.28, 43.35)	2.78 (-88.75, 72.64)	-3.74 (-29.22, 18.50)	-7.81 (-51.89, 35.95)	-22.46 (-79.28, 28.18)
-27.17 (-103.67, 48.19)	-15.88 (-42.11, 59.61)	9.53 (-81.53, 95.36)	-4.53 (-79.66, 67.96)	Dynamic	-36.75 (-111.29, 35.20)	-31.86 (-112.07, 47.24)	-13.11 (-107.24, 82.42)	-10.61 (-98.37, 76.63)	-2.61 (-71.77, 68.59)	-8.35 (-79.41, 61.37)	-12.42 (-96.10, 69.89)	-27.04 (-117.14, 61.20)
10.00 (-13.65, 34.51)	21.10 (-237.44, 72)	46.49 (-3.77, 94.73)	32.21 (16.38, 48.08)	36.75 (-35.20, 111.29)	Dynamic	5.25 (-26.72, 37.76)	23.62 (-41.49, 88.72)	26.05 (-21.81, 73.10)	34.80 (-35.11, 104.24)	28.45 (10.36, 46.76)	24.69 (-17.95, 66.07)	9.53 (-38.55, 58.13)
4.72 (-35.41, 44.91)	16.00 (-25.55, 56.40)	40.82 (-18.56, 98.20)	26.83 (-8.51, 62.81)	31.86 (-47.24, 112.07)	-5.25 (-37.76, 26.72)	Dynamic	18.81 (-52.26, 89.91)	20.77 (-35.98, 77.43)	30.05 (-49.02, 106.89)	22.94 (-19.29, 60.68)	19.27 (-33.74, 72.95)	4.34 (-53.30, 63.20)
-13.99 (-79.24, 52.83)	-2.76 (-71.12, 65.14)	22.63 (-59.67, 103.13)	8.44 (-58.20, 74.54)	13.12 (-82.42, 107.24)	-23.82 (-88.72, 41.49)	-18.81 (-89.91, 52.26)	Dynamic	2.21 (-77.47, 82.40)	10.86 (-94.23, 105.86)	4.67 (-60.23, 70.61)	0.14 (-76.59, 79.24)	-14.43 (-94.23, 67.61)
-16.02 (-68.53, 37.84)	-5.25 (-57.80, 49.45)	20.12 (-47.67, 87.61)	6.07 (-43.35, 55.28)	10.61 (-76.63, 99.37)	-26.05 (-73.10, 21.13)	-20.77 (-77.43, 35.98)	-2.21 (-82.40, 77.47)	Dynamic	9.20 (-76.67, 94.61)	2.52 (-47.78, 53.88)	-1.40 (-64.41, 61.75)	-16.32 (-89.45, 51.89)
-25.11 (-71.55, 48.92)	-13.76 (-87.11, 59.97)	11.79 (-74.71, 95.27)	-2.78 (-72.64, 68.75)	2.61 (-68.59, 71.77)	-34.80 (-104.24, 35.11)	-30.06 (-105.89, 49.02)	-10.98 (-105.86, 84.23)	-9.20 (-94.61, 76.67)	Dynamic	-6.49 (-75.01, 61.49)	-10.67 (-89.82, 69.99)	-25.44 (-104.44, 61.69)
-18.39 (-46.67, 9.26)	-7.30 (-36.03, 21.39)	17.95 (-36.39, 69.46)	3.74 (-16.50, 23.22)	8.98 (-61.37, 79.41)	-28.46 (-46.76, -10.39)	-22.94 (-60.68, 13.29)	-4.67 (-70.61, 60.23)	-2.52 (-53.88, 47.78)	6.49 (-61.48, 75.01)	Dynamic	-4.01 (-46.35, 37.87)	-18.74 (-70.98, 32.54)
-14.35 (-61.84, 33.69)	-3.33 (-30.78, 45.32)	21.61 (-44.52, 86.94)	7.81 (-35.95, 51.89)	12.42 (-69.89, 96.10)	-24.80 (-66.07, 17.88)	-19.27 (-72.05, 33.74)	-0.14 (-79.24, 76.59)	1.40 (-61.75, 64.41)	10.67 (-69.89, 89.62)	4.01 (-37.87, 46.35)	Dynamic	-14.62 (-77.79, 48.99)
0.71 (-52.75, 53.33)	11.45 (-42.06, 65.01)	36.23 (-39.91, 104.82)	22.46 (-28.18, 73.28)	27.04 (-61.20, 117.14)	-9.53 (-98.13, 38.55)	-4.34 (-63.20, 53.50)	14.43 (-67.61, 94.23)	16.33 (-51.86, 83.45)	25.44 (-61.69, 110.44)	18.74 (-32.54, 70.98)	14.62 (-48.99, 77.79)	Dynamic

Rank probability

Rank 1 is best, rank N is worst.

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17
Allicin	0.05	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Aloe	0	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.07
Amlexanox	0	0.01	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.1	0.1	0.1	0.09	0.08	0.06	0.05	0.04
Benzylamine	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.06
Berberine gelatin	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
Chitosan	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05
Chlorhexidine	0.01	0.06	0.1	0.08	0.07	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04
Curcumin	0.04	0.07	0.08	0.09	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03
Dexamethasone	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.06	0.06
Diosmectite	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.05
Doxycycline	0	0	0	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1
Glycyrrhiza	0	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.05
Insulin-liposomal gel	0.24	0.15	0.1	0.08	0.06	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01
Laser	0.01	0.03	0.05	0.09	0.11	0.12	0.12	0.11	0.1	0.08	0.06	0.05	0.03	0.02	0.01	0.01	0
N-acetylcysteine	0.18	0.12	0.08	0.06	0.05	0.04	0.03	0.03	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.02
Placebo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.04	0.08
Probiotics	0	0	0	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.07
Quercetin	0.1	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03
Silver nitrate	0.06	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Sucralfate	0.15	0.12	0.08	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Triamcinolone	0	0.01	0.02	0.04	0.06	0.09	0.12	0.12	0.12	0.11	0.1	0.08	0.05	0.04	0.02	0.01	0.01
Triester Glycerol Oxide	0.03	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.04
Zinc	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05

Rank 18	Rank 19	Rank 20	Rank 21	Rank 22	Rank 23
0.04	0.04	0.04	0.04	0.04	0.04
0.07	0.06	0.06	0.06	0.06	0.05
0.02	0.01	0.01	0	0	0
0.05	0.05	0.04	0.05	0.05	0.03
0.05	0.05	0.05	0.05	0.07	0.08
0.05	0.05	0.06	0.06	0.09	0.16
0.03	0.03	0.03	0.04	0.03	0.01
0.02	0.02	0.01	0.01	0.01	0
0.05	0.05	0.04	0.04	0.06	0.07
0.1	0.09	0.08	0.06	0.04	0.02
0.04	0.03	0.02	0.01	0.01	0
0.01	0.01	0.01	0.01	0.01	0.01
0	0	0	0	0	0
0.02	0.02	0.03	0.03	0.04	0.05
0.13	0.19	0.21	0.18	0.1	0.03
0.07	0.08	0.08	0.09	0.11	0.09
0.03	0.03	0.03	0.04	0.06	0.08
0.04	0.03	0.03	0.03	0.04	0.04
0.02	0.02	0.03	0.03	0.04	0.05
0	0	0	0	0	0
0.04	0.03	0.03	0.03	0.03	0.03
0.05	0.05	0.06	0.07	0.09	0.13

Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	23.46 (18.29, 31.60)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Benzydamine.Quercetin	1.00
d.Chlorhexidine.Nacetylcysteine	1.00
d.Chlorhexidine.Sucralfate	1.00
d.Placebo.Allicin	1.00
d.Placebo.Berberinegelatin	1.00
d.Placebo.Chitosan	1.00
d.Placebo.Dexamethasone	1.00
d.Placebo.Diosmectite	1.00
d.Placebo.Glycyrrhiza	1.00
d.Placebo.InsulinliposomIgel	1.05
d.Placebo.Probiotics	1.00
d.Placebo.Silvernitrate	1.00
d.Placebo.Zinc	1.01
d.Triamcinolone.Aloe	1.00
d.Triamcinolone.Amlexanox	1.00
d.Triamcinolone.Benzydamine	1.01
d.Triamcinalone.Chlorhexidine	1.00
d.Triamcinolone.Curcumin	1.00
d.Triamcinolone.Doxycycline	1.01
d.Triamcinolone.Laser	1.01
d.Triamcinolone.Placebo	1.01
d.Triamcinolone. TriesterGlycerolOxide	1.00
sd.d	1.01

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor : 2.5

2.Inconsistency Model

Summary estimates for Symptom-reducing effect

The estimate values for symptom-reducing effect are given as mean difference (MD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

[illegible]

-11.14 (-47.45, 45.36)	-8.25 (-68.77, 49.84)	25.97 (-41.84, 96.46)	8.39 (-46.32, 62.92)	14.27 (-75.83, 102.11)	-24.84 (-71.69, 24.76)	-19.02 (-76.27, 39.73)	2.65 (-60.63, 64.95)	1.67 (-45.12, 69.95)	11.24 (-75.84, 96.85)	4.99 (-48.42, 59.79)	2.60 (-42.74, 69.77)	-8.04 (-77.79, 63.65)
-0.56 (-44.11, 43.38)	3.20 (-47.97, 45.49)	36.49 (-22.07, 94.79)	19.00 (-22.94, 57.23)	24.69 (-55.35, 103.55)	-13.46 (-48.45, 18.96)	-8.53 (-55.04, 38.69)	13.16 (-59.57, 87.34)	13.14 (-46.15, 70.98)	21.54 (-56.24, 98.04)	15.82 (-21.21, 52.08)	13.53 (-43.22, 67.14)	2.20 (-58.69, 64.59)
-9.31 (-45.43, 33.45)	-4.51 (-37.91, 27.48)	29.05 (-23.77, 83.08)	11.60 (-15.55, 40.54)	17.64 (-59.08, 94.08)	-24.04 (-44.21, -3.82)	-15.32 (-53.88, 25.26)	5.66 (-64.84, 77.92)	5.25 (-7.81, 59.15)	13.88 (-59.40, 87.25)	8.02 (-19.05, 39.22)	5.90 (-42.50, 57.22)	-5.22 (-59.56, 54.60)
-6.61 (-49.54, 36.97)	-2.58 (-60.35, 55.12)	30.76 (-32.60, 95.42)	13.50 (-35.61, 59.35)	18.96 (-63.75, 102.97)	-17.90 (-65.23, 29.20)	-13.80 (-67.29, 39.81)	7.62 (-42.49, 59.16)	6.54 (-56.85, 72.36)	15.46 (-64.44, 95.68)	10.28 (-31.53, 52.12)	8.21 (-49.53, 64.73)	-3.39 (-69.26, 64.98)
-3.13 (-57.95, 53.47)	0.49 (-59.60, 56.71)	34.21 (-33.48, 101.22)	16.93 (-38.30, 70.11)	22.41 (-66.61, 109.28)	-16.10 (-63.94, 31.59)	-10.39 (-67.92, 47.63)	10.88 (-70.67, 94.20)	10.52 (-59.02, 77.24)	19.33 (-68.82, 104.30)	13.19 (-38.73, 66.27)	11.24 (-55.02, 76.87)	-0.46 (-74.60, 71.04)
3.96 (-55.64, 65.10)	7.55 (-56.24, 67.86)	41.64 (-29.85, 113.55)	24.32 (-34.82, 79.39)	29.70 (-61.17, 123.46)	-8.40 (-61.76, 45.59)	-3.06 (-64.65, 57.55)	18.02 (-66.29, 103.64)	17.66 (-52.92, 88.11)	25.85 (-62.04, 114.71)	20.89 (-37.36, 77.60)	18.17 (-51.74, 86.93)	7.86 (-65.87, 81.60)
-16.31 (-72.42, 41.61)	-12.28 (-74.82, 48.36)	21.27 (-51.72, 92.90)	3.96 (-53.07, 57.90)	9.42 (-41.88, 61.60)	-28.83 (-81.27, 24.99)	-22.24 (-86.23, 38.89)	-1.69 (-83.14, 81.37)	-2.43 (-75.12, 69.77)	6.24 (-41.36, 53.97)	0.59 (-47.06, 48.34)	-2.22 (-64.60, 64.37)	-13.26 (-85.70, 61.65)
-19.22 (-64.18, 25.89)	-15.81 (-67.79, 31.01)	17.27 (-43.69, 78.93)	0.09 (-41.52, 40.46)	5.90 (-71.26, 84.71)	-32.48 (-71.20, 5.89)	-27.00 (-77.35, 22.75)	-5.81 (-78.58, 68.05)	-5.93 (-67.51, 55.13)	2.99 (-72.23, 77.55)	-3.10 (-33.83, 28.65)	-5.55 (-59.17, 47.69)	-16.59 (-80.51, 50.95)
-4.91 (-50.90, 46.52)	-0.98 (-48.58, 45.15)	32.72 (-29.13, 95.84)	15.38 (-27.29, 58.42)	21.26 (-61.11, 104.34)	-17.31 (-54.30, 21.11)	-11.56 (-48.39, 40.09)	9.81 (-67.01, 89.23)	8.92 (-52.78, 70.38)	18.07 (-61.80, 99.11)	11.88 (-29.06, 55.67)	9.93 (-47.71, 68.83)	-1.30 (-64.17, 64.86)
-4.74 (-60.00, 52.57)	-1.11 (-61.76, 59.05)	32.83 (-34.79, 101.93)	15.63 (-39.35, 68.57)	21.57 (-65.36, 109.38)	-17.04 (-64.24, 31.13)	-12.04 (-69.86, 45.68)	9.39 (-73.81, 91.30)	9.19 (-60.16, 76.01)	17.77 (-69.26, 104.16)	12.65 (-41.15, 64.43)	9.54 (-56.38, 75.66)	-1.13 (-72.04, 72.30)
Dog's bite	4.53 (-48.56, 43.16)	37.06 (-20.12, 94.46)	20.61 (-21.14, 53.27)	25.50 (-52.19, 102.86)	-9.58 (-34.51, 14.95)	-6.98 (-53.10, 34.94)	13.98 (-52.58, 79.83)	13.47 (-43.71, 69.31)	22.17 (-53.04, 95.71)	16.89 (-16.44, 47.63)	14.24 (-37.38, 63.99)	3.37 (-55.83, 63.59)
-4.53 (-45.16, 48.56)	Cryptic	33.96 (-23.04, 93.97)	16.14 (-14.70, 51.70)	22.03 (-59.39, 103.87)	-22.12 (-46.63, 1.73)	-11.24 (-53.89, 39.05)	10.57 (-61.89, 87.94)	9.70 (-45.30, 68.93)	18.59 (-56.57, 96.99)	12.75 (-21.26, 54.72)	10.52 (-43.49, 67.55)	-0.24 (-58.86, 61.48)
-37.06 (-44.46, 20.12)	-33.96 (-93.97, 23.04)	house, basement gr	-17.47 (-71.14, 35.45)	-12.01 (-100.86, 77.23)	-5.04 (-97.82, -1.73)	-44.34 (-101.74, 13.09)	-23.06 (-100.43, 59.89)	-23.67 (-91.87, 45.95)	-15.43 (-101.63, 71.34)	-20.70 (-73.83, 32.28)	-23.29 (-89.19, 42.18)	-33.84 (-102.21, 37.20)
-26.61 (-53.27, 21.14)	-16.14 (-51.70, 14.70)	17.47 (-35.45, 71.14)	User	5.75 (-69.66, 83.06)	-32.21 (-48.76, -14.99)	-27.17 (-66.13, 13.89)	-6.06 (-74.23, 64.81)	-5.97 (-59.51, 47.66)	2.29 (-71.25, 76.19)	-3.73 (-26.00, 19.54)	-6.09 (-53.37, 43.88)	-16.42 (-72.94, 42.22)
-26.50 (-102.96, 52.19)	-22.03 (-103.87, 58.39)	12.01 (-77.23, 100.86)	-5.75 (-43.06, 69.66)	Negative	-38.05 (-113.06, 36.44)	-32.74 (-115.57, 49.29)	-11.87 (-109.91, 85.60)	-11.70 (-102.69, 78.49)	-3.32 (-74.03, 64.08)	-8.71 (-79.51, 61.27)	-11.66 (-94.08, 72.82)	-22.19 (-111.94, 69.08)
9.59 (-14.95, 34.53)	22.12 (-1.73, 46.63)	50.04 (1.73, 97.82)	32.21 (4.89, 48.76)	38.05 (-36.44, 113.86)	Pseudo	5.60 (-27.57, 37.90)	26.64 (-59.35, 94.56)	26.14 (-21.64, 73.85)	34.62 (-36.56, 106.68)	28.24 (-1.97, 58.52)	25.79 (-24.25, 74.93)	16.00 (-34.63, 66.34)
6.98 (-34.94, 53.10)	11.24 (-39.05, 53.89)	44.34 (-13.09, 101.74)	27.17 (-13.85, 68.13)	32.74 (-49.29, 115.57)	-5.60 (-37.20, 27.57)	Phonics	21.27 (-59.85, 94.45)	20.59 (-38.91, 77.54)	28.98 (-45.15, 109.88)	23.84 (-14.70, 63.62)	21.50 (-34.48, 77.36)	10.87 (-49.60, 72.12)
-13.98 (-79.83, 32.58)	-10.57 (-87.94, 61.89)	23.06 (-58.88, 104.43)	6.06 (-64.81, 74.29)	11.87 (-85.66, 109.91)	-26.64 (-94.56, 39.35)	-21.27 (-94.45, 50.85)	Question	-0.99 (-82.58, 80.53)	7.93 (-86.56, 101.61)	2.64 (-69.52, 67.51)	0.24 (-76.53, 76.66)	-10.94 (-96.28, 74.37)
-13.47 (-68.31, 43.71)	-9.70 (-68.93, 45.30)	23.67 (-43.98, 91.87)	5.97 (-47.66, 59.51)	11.70 (-76.49, 102.89)	-26.14 (-73.85, 21.84)	-20.99 (-77.64, 36.91)	0.99 (-80.53, 82.50)	Shuttle	8.95 (-77.81, 95.52)	3.34 (-49.41, 55.96)	0.60 (-45.13, 66.60)	-10.23 (-80.40, 60.74)
-22.17 (-45.71, 53.04)	-18.98 (-96.99, 56.57)	15.43 (-71.34, 101.63)	-2.28 (-76.19, 71.25)	33.2 (-64.08, 74.03)	-34.62 (-106.66, 36.85)	-26.98 (-109.88, 48.15)	-7.93 (-101.61, 86.56)	-8.95 (-95.52, 77.81)	Success	-5.41 (-73.59, 62.75)	-8.07 (-88.35, 71.56)	-10.04 (-108.64, 69.73)
-16.88 (-47.83, 16.44)	-12.75 (-54.72, 21.26)	20.70 (-32.26, 73.83)	3.73 (-19.54, 26.00)	8.71 (-61.27, 79.51)	-23.84 (-56.52, 1.97)	-23.84 (-63.62, 14.78)	-2.64 (-67.51, 63.52)	-3.34 (-55.96, 49.11)	5.41 (-62.75, 73.59)	Therapeutic	-2.49 (-46.23, 40.75)	-13.53 (-49.10, 44.29)
-14.26 (-43.88, 37.38)	-10.62 (-67.56, 43.49)	23.29 (-42.18, 89.19)	6.09 (-43.88, 53.37)	11.66 (-72.82, 94.09)	-25.78 (-74.83, 24.25)	-21.50 (-77.35, 34.48)	-0.24 (-76.66, 75.53)	-0.60 (-66.60, 65.13)	8.07 (-71.56, 88.55)	2.49 (-46.75, 46.23)	Threat Exposure Code	-10.70 (-78.76, 60.83)
-3.37 (-65.59, 55.83)	0.24 (-61.46, 58.86)	33.84 (-37.30, 103.21)	16.42 (-42.22, 72.94)	22.19 (-69.08, 113.94)	-16.00 (-68.34, 34.63)	-10.87 (-72.12, 49.60)	10.94 (-74.37, 96.28)	10.23 (-60.74, 80.40)	19.04 (-69.72, 108.64)	13.52 (-44.29, 69.10)	10.70 (-60.83, 78.76)	Zinc

Inconsistency Factors

Cycle	Median (95% CI)
Aloe, Amlexanox, Placebo, Triamcinolone	0.50 (-14.31, 31.47)
Aloe, Amlexanox, Dexamethasone, Placebo, Triamcinolone	0.05 (-25.55, 26.18)
Aloe, Doxycycline, Placebo, Triamcinolone	-0.38 (-32.56, 15.35)
Aloe, Amlexanox, Glycyrrhiza, Placebo, Triamcinolone	1.70 (-9.46, 41.74)
Aloe, Amlexanox, Laser, Placebo, Triamcinolone	-0.10 (-22.51, 22.79)
Aloe, Placebo, Triamcinolone	-0.13 (-27.69, 24.14)
Aloe, Placebo, Triamcinolone	-0.13 (-27.69, 24.14)
Aloe, Placebo, Triamcinolone	-0.13 (-27.69, 24.14)
Amlexanox, Laser, Triamcinolone	0.01 (-25.66, 20.43)

Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	23.41 (17.97, 32.05)
Inconsistency Standard Deviation	6.74 (0.15, 37.28)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Allicin.Placebo	1.00
d.Aloe.Triamcinolone	1.00
d.Amlexanox.Dexamethasone	1.00
d.Amlexanox.Glycyrrhiza	1.01
d.Benzydamine.Doxyeycline	1.00
d.Benzydamine.Quercetin	1.00
d.Chlorhexidine.Nacetylsteyne	1.00
d.Chlorhexidine.Sucralfate	1.00
d.Glycyrrhiza.Laser	1.01
d.Placebo.Aloe	1.00
d.Placebo.Berberinegelatin	1.00
d.Placebo.Chitosan	1.00
d.Placebo.Diosmectite	1.00
d.Placebo.Insulinliposomalgel	1.00
d.placebo.Probiotics	1.00
d.Placebo.Silvernitrate	1.00
d.Placebo.Zinc	1.15
d.Triamcinolone.Amlexanox	1.01
d.Triamcinolone.Benzydamine	1.00
d.Triamcinolone.Chlorhexidine	1.00
d.Triamcinolone.Curcumin	1.00
d.Triamcinolone.TriesterGlycerolOxide	1.00
w.Aloe.Placebo.Amlexanox.Triamcinolone	1.01
w.Aloe.Placebo.Dexamethasone.Amlexanox.Triamcinolone	1.01
w.Aloe.Placebo.Doxycline.Triamcinolone	1.01
w.Aloe.Placebo.Glycyrrhiza.Amlexanox.Triamcinolone	1.02
w.Aloe.Placebo.Laser.Amlexanox.Triamcinolone	1.03
w.Aloe.Placebo.Triamcinolone	1.01
w.Aloe.Placebo.Triamcinolone	1.01
w.Aloe.Placebo.Triamcinolone	1.01
w.Amlexanox.Laser.Triamcinolone	1.01
sd.d	1.00
sd.w	1.03

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor : 2.5

3. Node-splitting analysis

Node-splitting analysis of inconsistency

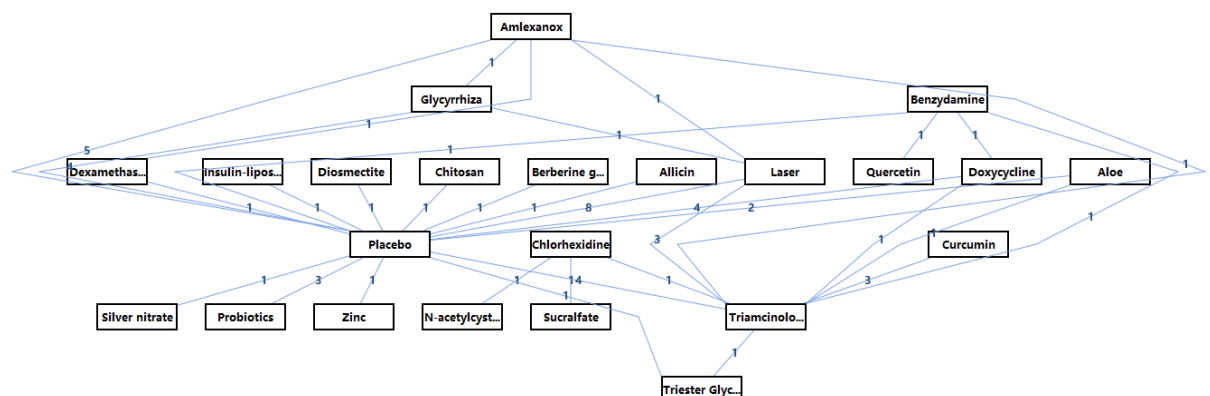
Inconsistency between direct and indirect estimates was estimated in the Node-Splitting Model. When P values is above 0.05 in a comparison, there is evidence of statistical inconsistency.

Name	Direct Effect	Indirect Effect	Overall	P-Value
Aloe, Triamcinolone	10.75 (-40.60, 60.29)	22.21 (-21.04, 64.30)	16.02 (-18.38, 51.47)	0.72
Amlexanox, Dexamethasone	-0.12 (-48.39, 48.02)	-11.31 (-64.58, 41.28)	-5.15 (-39.53, 29.62)	0.74
Amlexanox, Glycyrrhiza	-16.91 (-67.12, 32.29)	-3.20 (-38.03, 31.48)	-2.07 (-31.34, 26.50)	0.66
Amlexanox, Laser	8.18 (-43.87, 59.96)	7.79 (-17.34, 33.33)	8.95 (-14.74, 31.73)	0.99
Amlexanox, Placebo	-33.36 (-55.45, -12.01)	-7.72 (-39.82, 22.76)	-23.26 (-42.15, -4.15)	0.17
Amlexanox, Triamcinolone	42.21 (-4.58, 87.65)	-7.76 (-33.96, 19.47)	4.98 (-18.10, 29.39)	0.07
Benzydamine, Doxycycline	-0.13 (-49.50, 48.84)	-18.79 (-71.52, 36.16)	-7.07 (-48.88, 35.26)	0.6
Benzydamine, Placebo	-12.10 (-60.76, 37.64)	-20.69 (-67.17, 25.07)	-17.16 (-57.33, 24.03)	0.8
Benzydamine, Triamcinolone	-0.28 (-49.39, 48.65)	24.33 (-23.53, 73.33)	11.21 (-29.12, 52.26)	0.46
Dexamethasone, Placebo	-13.05 (-63.34, 36.72)	-24.48 (-77.06, 27.32)	-18.31 (-52.81, 16.30)	0.75
Doxycycline, Triamcinolone	0.03 (-49.01, 48.53)	23.59 (-8.72, 56.12)	18.39 (-9.26, 46.67)	0.4
Glycyrrhiza, Laser	24.22 (-25.07, 74.40)	8.48 (-20.95, 38.30)	11.08 (-16.23, 38.16)	0.57
Laser, Placebo	-34.75 (-53.20, -16.15)	-30.79 (-59.83, -1.68)	-32.21 (-48.08, -16.39)	0.8
Laser, Triamcinolone	-5.25 (-35.21, 24.96)	-7.16 (-36.01, 22.01)	-3.74 (-23.22, 16.50)	0.92
Placebo, Triamcinolone	18.98 (-5.22, 43.91)	44.45 (16.19, 73.39)	28.45 (10.36, 46.76)	0.18

4. Network structure

Network structure of sensitivity analysis

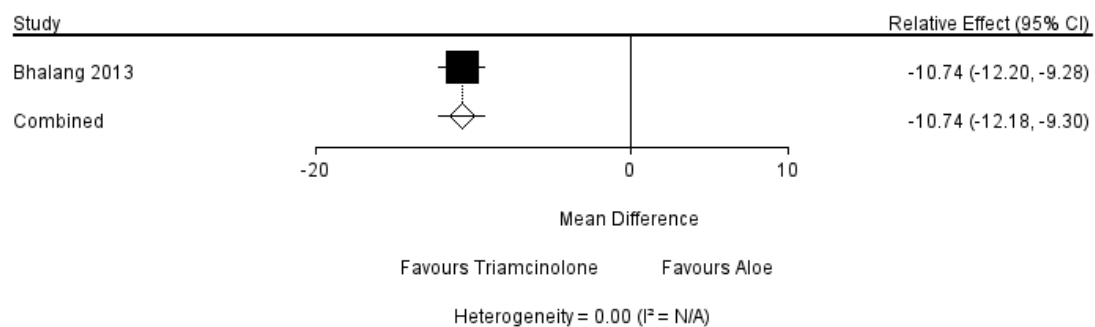
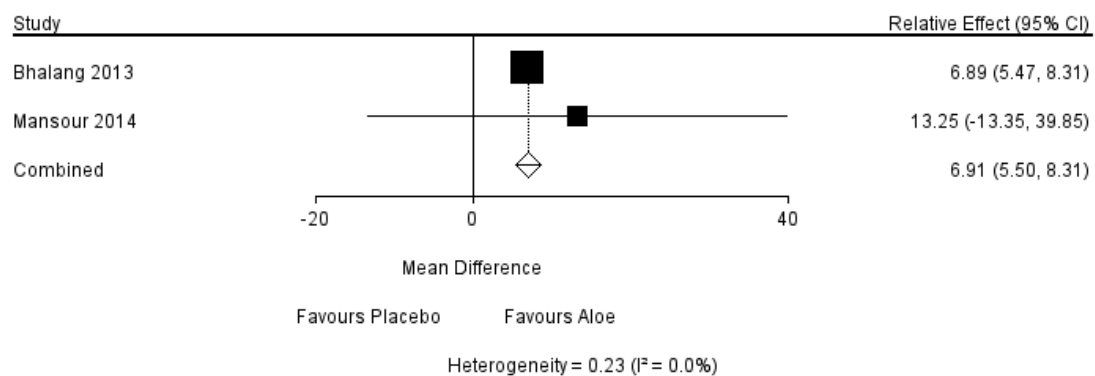
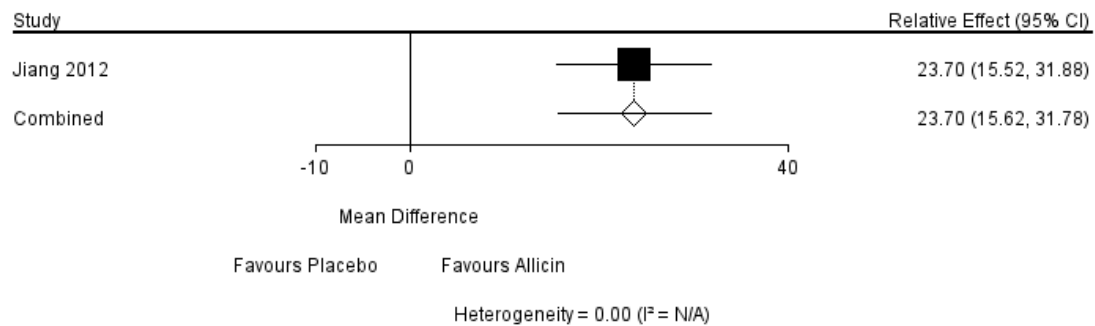
46 RCTs involving 23 local interventions were included in the sensitivity analysis considering the symptom-reducing effect.

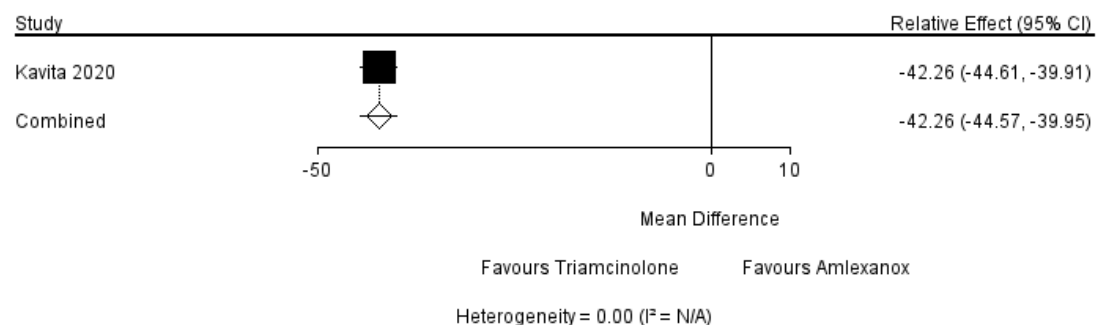
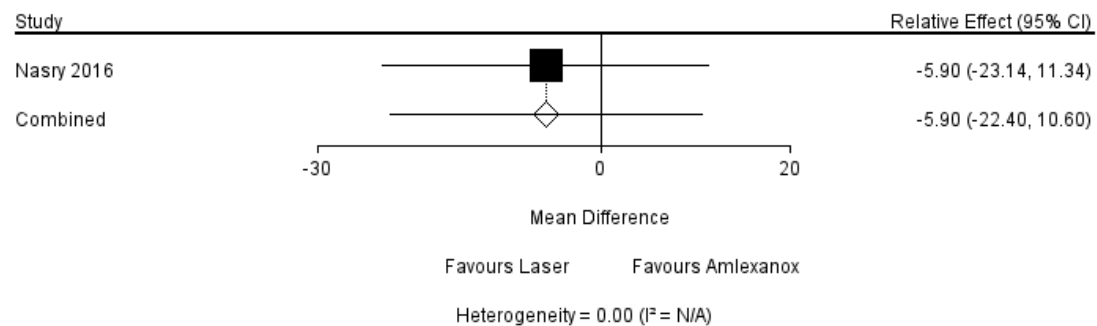
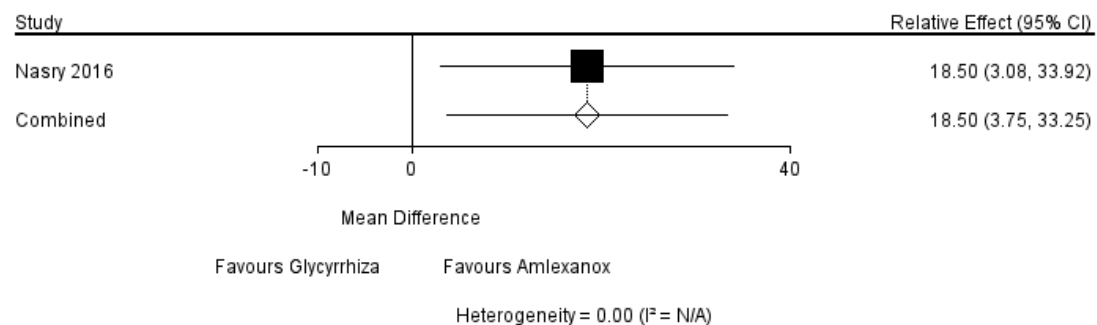
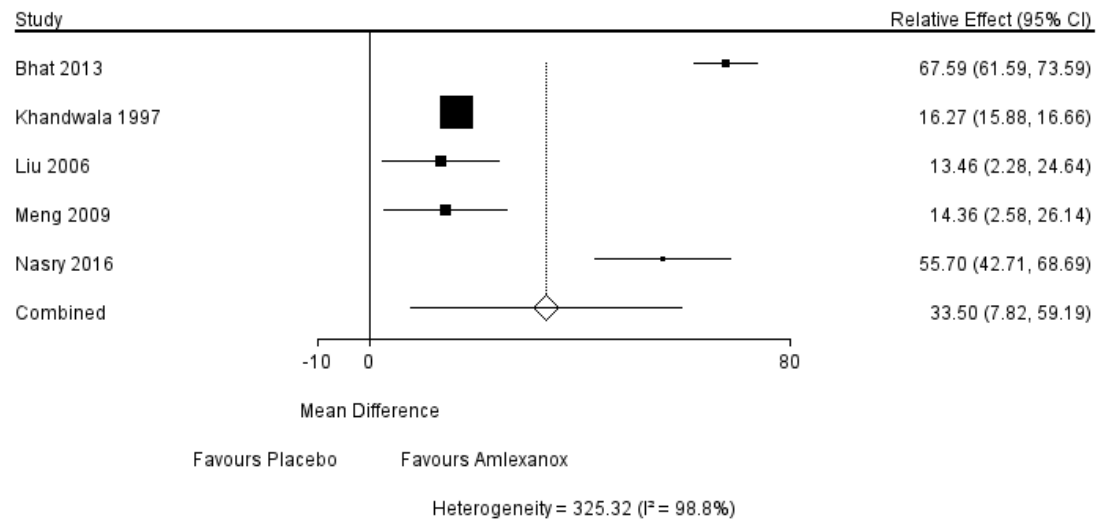


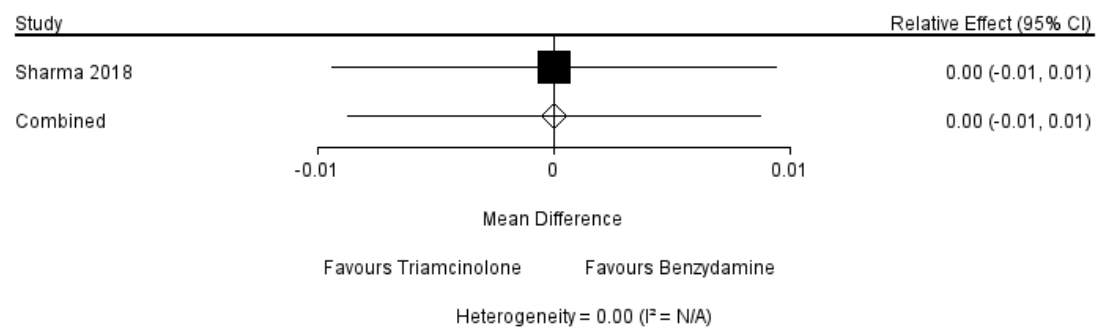
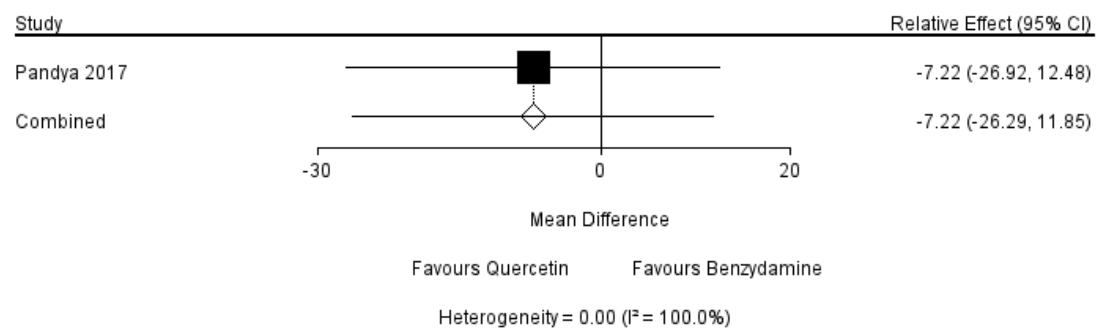
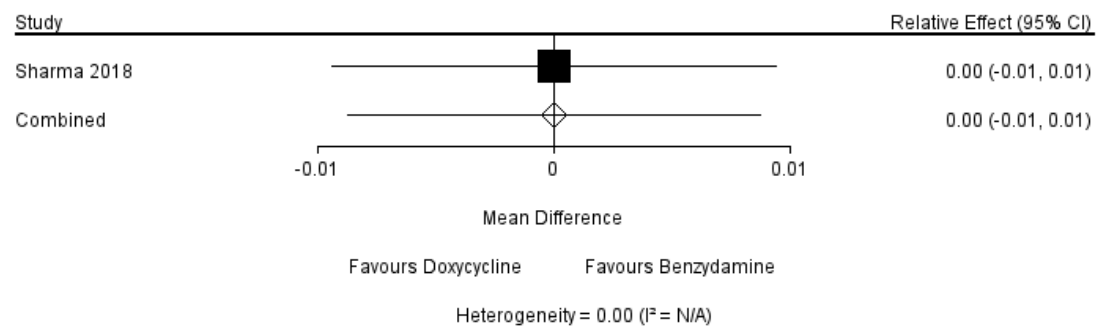
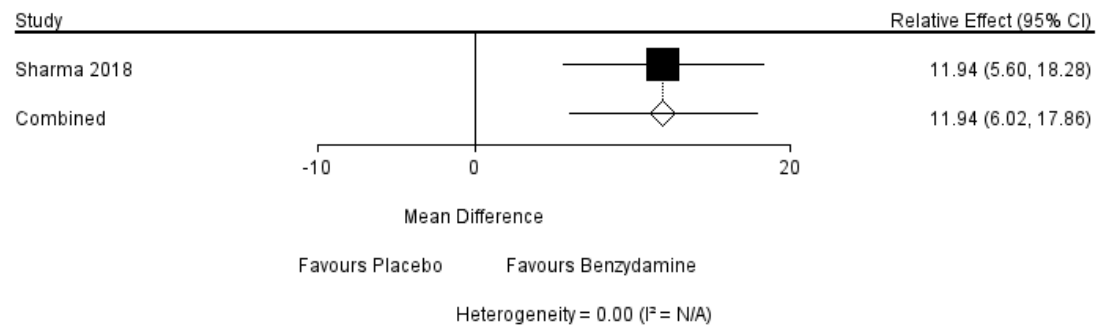
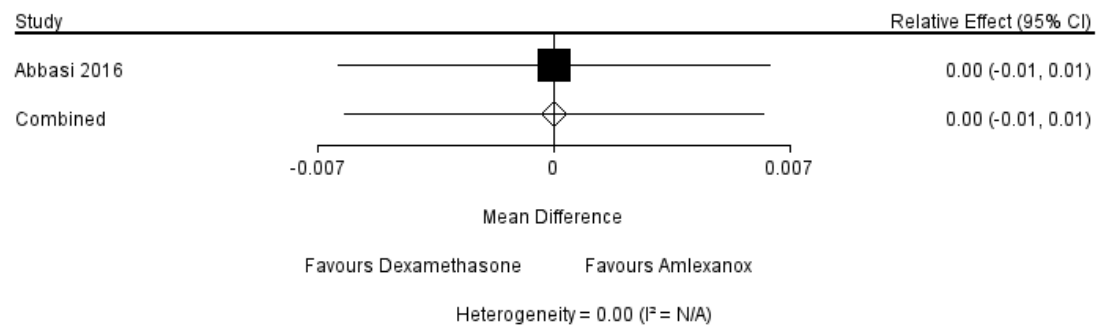
5. Pairwise meta-analysis

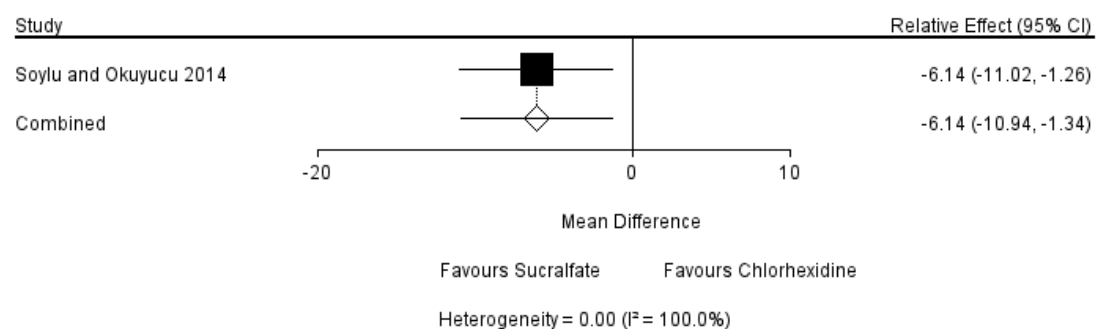
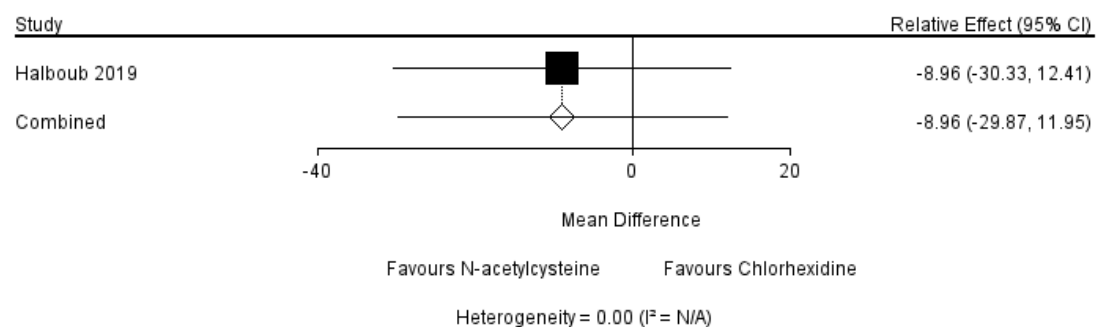
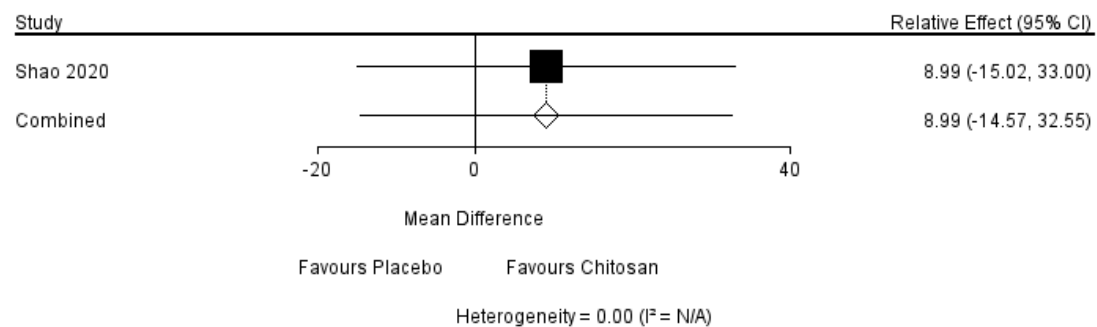
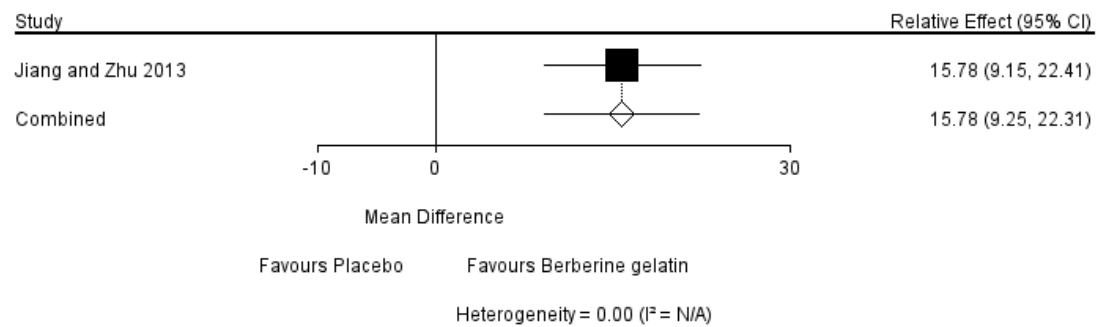
Pairwise meta-analysis of symptom-reducing effect

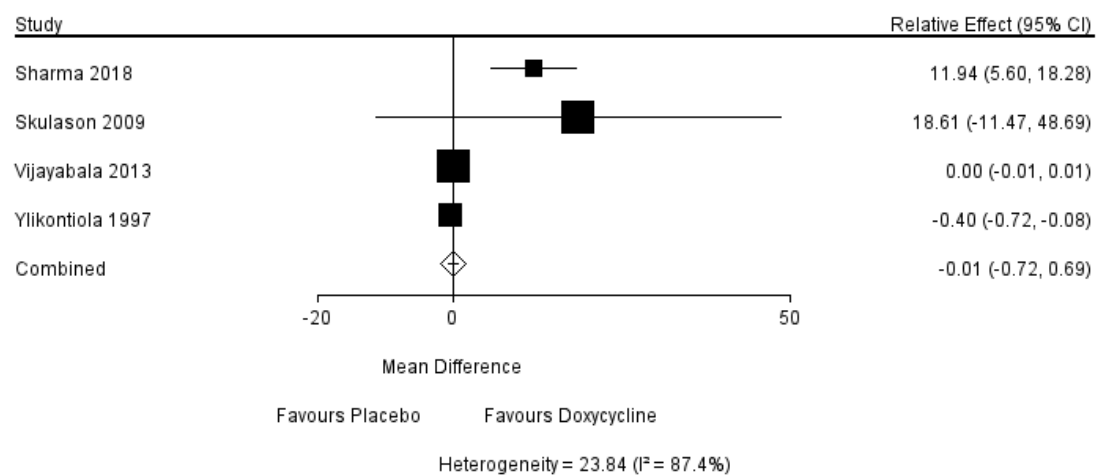
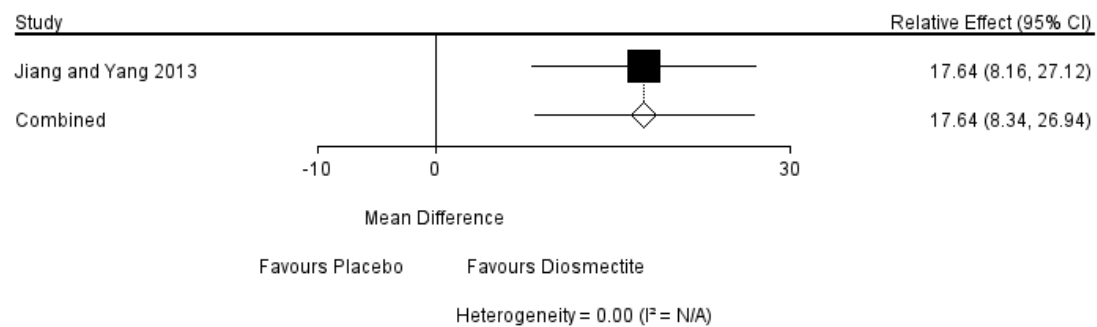
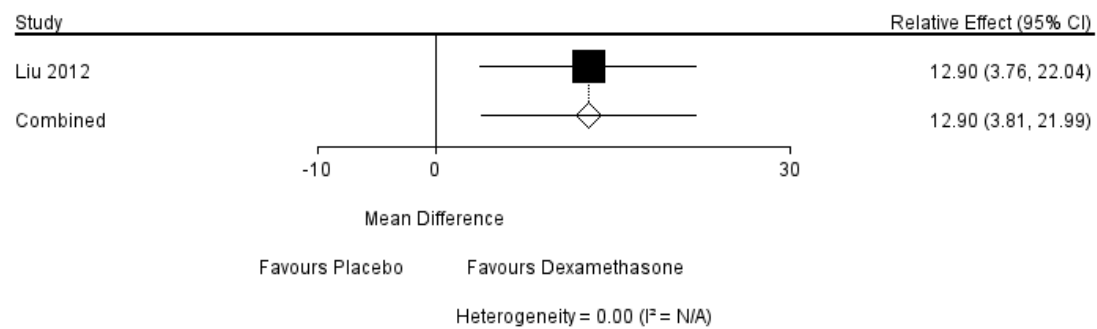
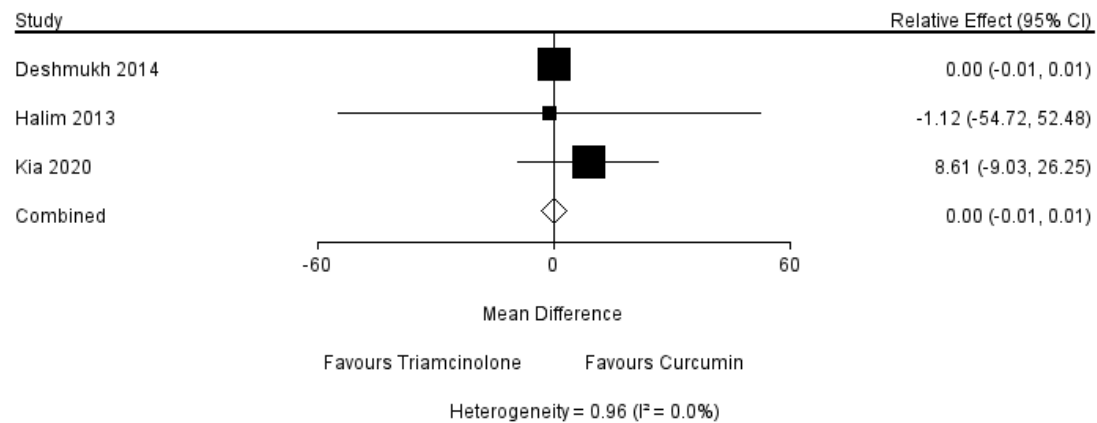
Symptom-reducing effect were measured by mean difference (MD) and 95% confidence interval (CI).

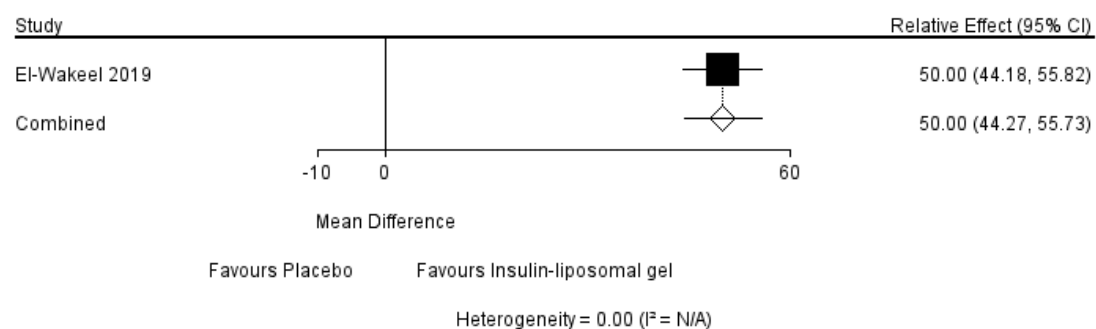
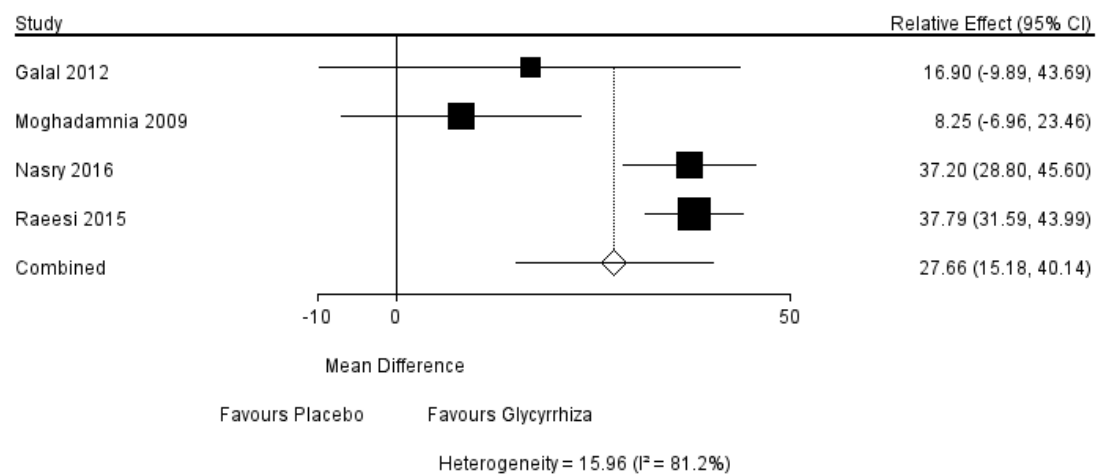
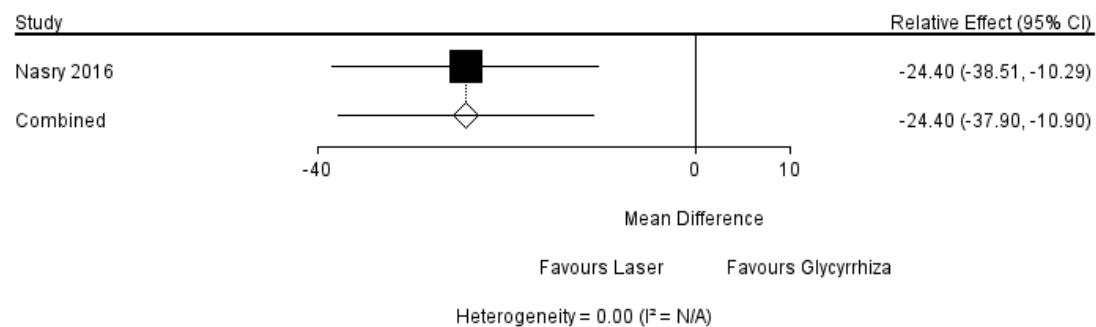
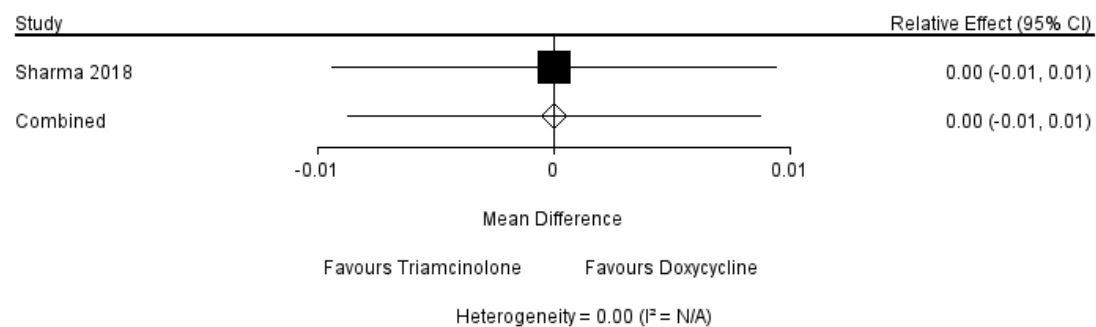


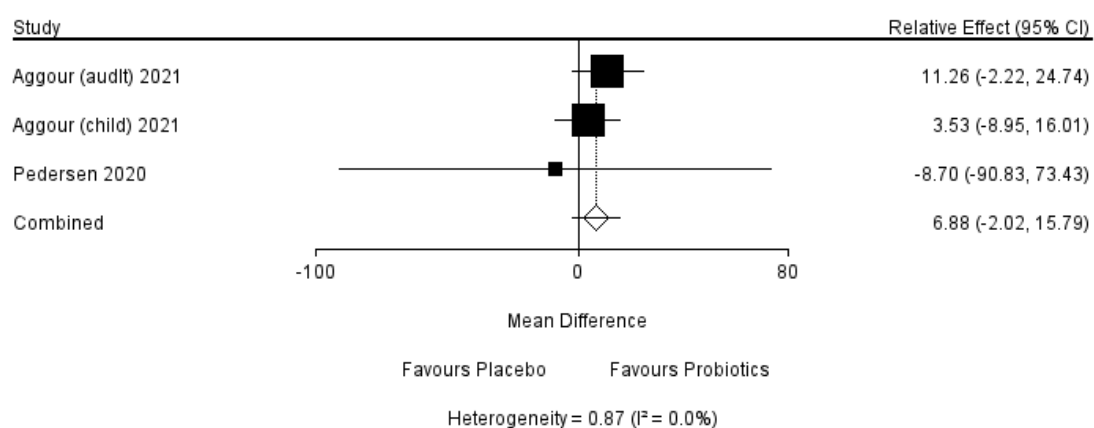
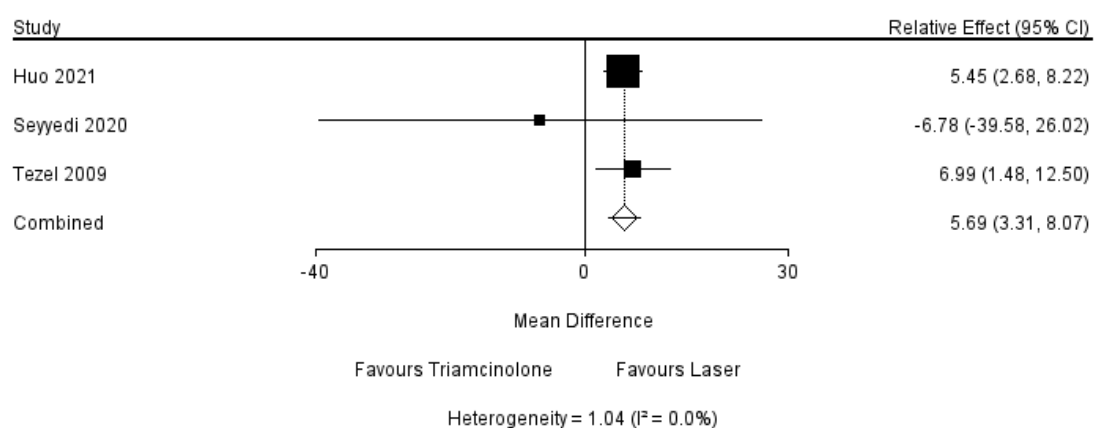
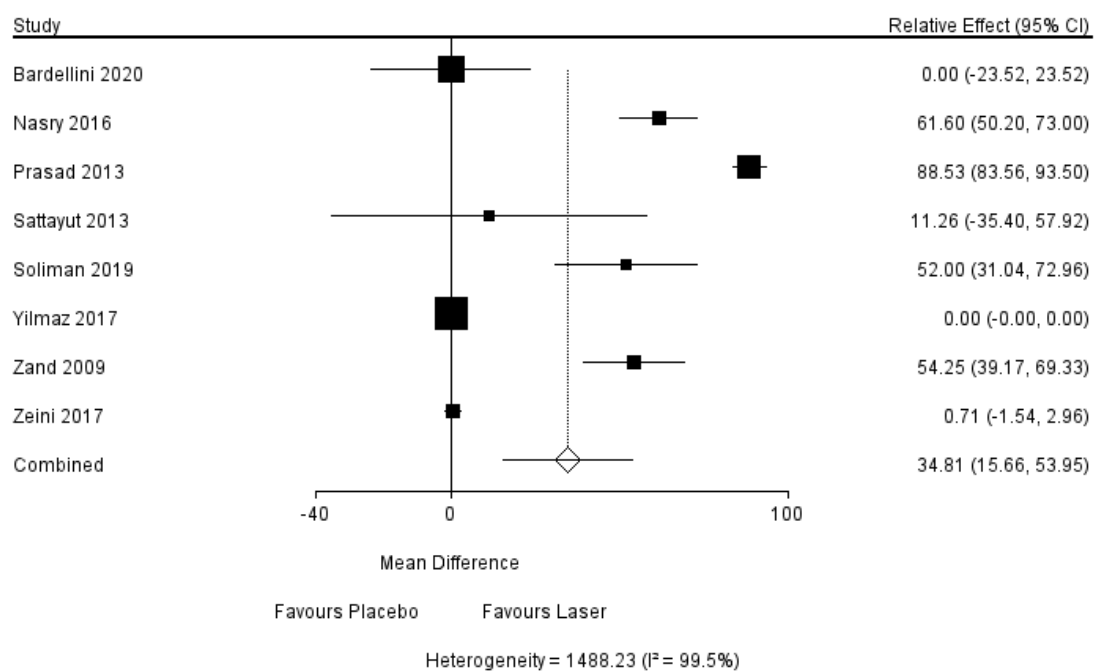


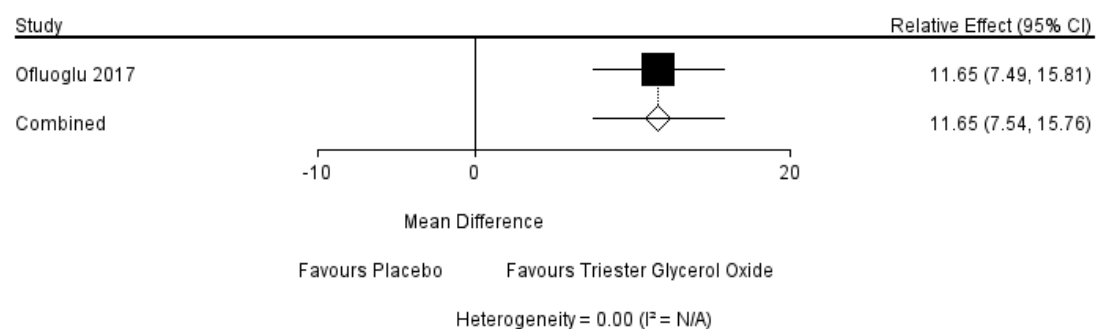
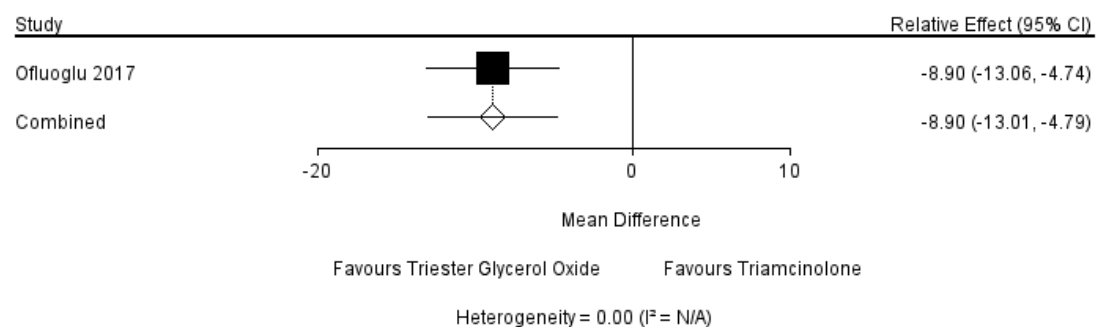
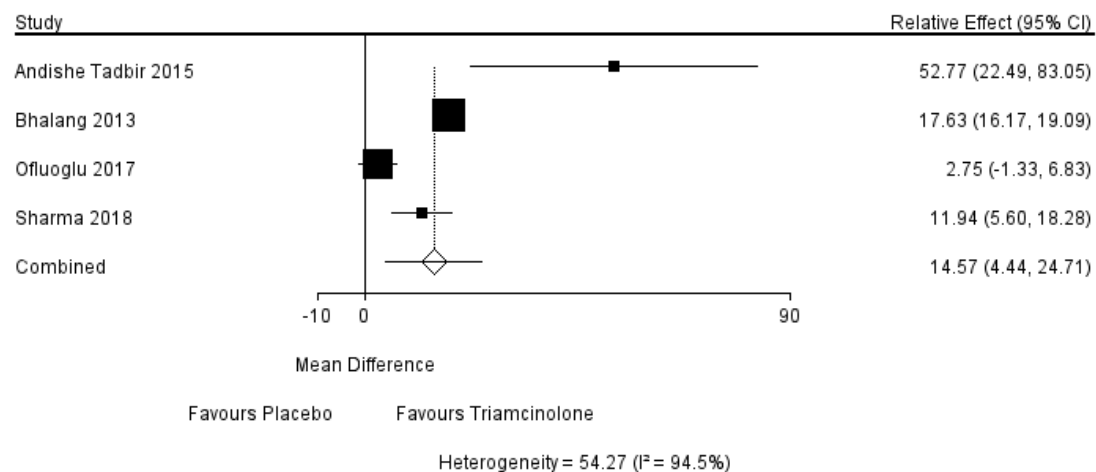
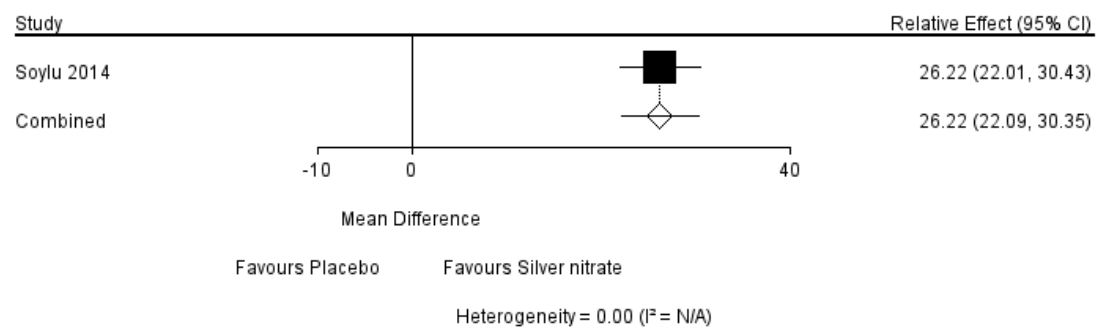


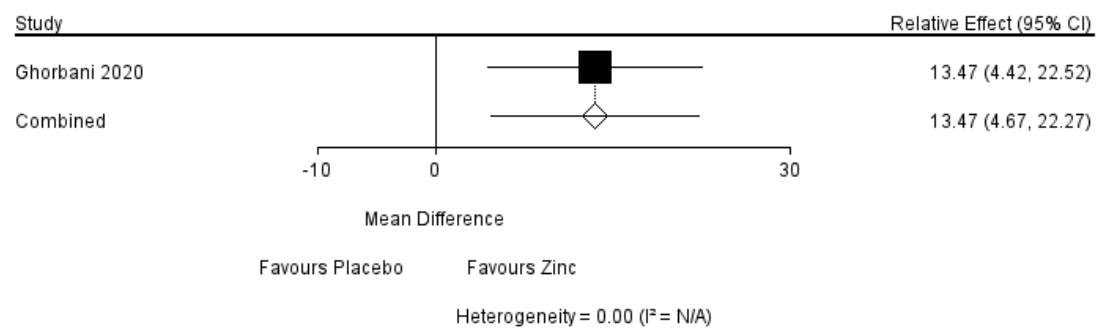












Comparison	NO. of included study	Heterogeneity (I ²)	Combined effect [SMD (95%CI)]
Allicin vs			
Placebo	1	NA	23.70 (15.62, 31.78)
Aloe vs			
Placebo	2	0%	6.91 (5.50, 8.31)
Triamcinolone	1	NA	-10.74 (-12.18, -9.30)
Amlexanox vs			
Placebo	5	99%	33.50 (7.82, 59.19)
Glycyrrhiza	1	NA	18.50 (3.75, 33.25)
Laser	1	NA	-5.90 (-22.40, 10.60)
Triamcinolone	1	NA	-42.26 (-44.57, -39.95)
Dexamethasone	1	NA	0.00 (-0.01, 0.01)
Benzydamine vs			
Placebo	1	NA	11.94 (6.02, 17.86)
Doxycycline	1	NA	0.00 (-0.01, 0.01)
Quercetin	1	NA	-7.22 (-26.29, 11.85)
Triamcinolone	1	NA	0.00 (-0.01, 0.01)
Berberine gelatin vs			
Placebo	1	NA	15.78 (9.25, 22.31)
Chitosan vs			
Placebo	1	NA	8.99 (-14.57, 32.55)
Chlorhexidine vs			
N-acetylcysteine	1	NA	-8.96 (-29.87, 11.95)
Sucralfate	1	NA	-6.14 (-10.94, -1.34)
Curcumin vs			
Triamcinolone	3	0%	0.00 (-0.01, 0.01)
Dexamethasone vs			
Placebo	1	NA	12.90 (3.81, 21.99)
Diosmectite vs			
Placebo	1	NA	17.64 (8.34, 26.94)
Doxycycline vs			
Placebo	4	87.4%	-0.01 (-0.72, 0.69)
Triamcinolone	1	NA	0.00 (-0.01, 0.01)
Glycyrrhiza vs			
Laser	1	NA	-24.40 (-37.90, -10.90)
Placebo	4	81.2%	27.66 (15.18, 40.14)
Insulin-liposomal gel vs			
Placebo	1	NA	50.00 (44.27, 55.73)
Laser vs			
Placebo	8	99.5%	34.81 (15.66, 53.95)
Triamcinolone	3	0%	6.99 (1.85, 12.13)
Probiotics vs			
Placebo	3	0%	6.88 (-2.02, 15.79)
Silver nitrate vs			
Placebo	1	NA	26.22 (26.09, 30.35)
Triamcinolone vs			
Placebo	4	94.5%	14.57 (4.44, 24.71)
Triester Glycerol Oxide	1	NA	-8.90 (-13.01, -4.79)
Triester Glycerol Oxide vs			
Placebo	1	NA	11.65 (7.54, 15.76)
Zinc vs			
Placebo	1	NA	13.47 (4.67, 22.27)

MD, mean difference; CI, confidence interval; NA, not applicable.

6. Subgroup Discussion

The 56 RCTs studied for the symptom-reducing effect had different durations of local intervention and were examined at different times during the trial. The size-reducing effect is discussed separately according to the different examination times.

Day 0

1. Consistency Model

1.1 Summary estimates

Aloe	60.01 (-45.60, 159.40)	-10.79 (-107.87, 83.10)	5.38 (-94.80, 102.16)
-60.01 (-159.40, 45.60)	Laser	-70.96 (-115.42, -26.81)	-54.41 (-133.09, 20.80)
10.79 (-83.10, 107.87)	70.96 (26.81, 115.42)	Placebo	16.74 (-60.78, 92.32)
-5.38 (-102.16, 94.80)	54.41 (-20.80, 133.09)	-16.74 (-92.32, 60.78)	Triamcinolone

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4
Aloe	0.1	0.3	0.28	0.33
Laser	0.85	0.12	0.03	0
Placebo	0	0.18	0.35	0.47
Triamcinolone	0.05	0.41	0.35	0.2

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	44.73 (25.24, 86.33)

1.4 Convergence Diagnostics

Parameter	PSRF	Number of chains	:	4
d.Placebo.Aloe	1.00	Tuning iterations	:	20,000
d.Placebo.Laser	1.00	Simulation iterations	:	50,000
d.Placebo.Triamcinolone	1.00	Thinning interval	:	10
sd.d	1.00	Inference samples	:	10,000
		Variance scaling factor:		2.5

2.Inconsistency Model

2.1 Summary estimates

Aloe	63.25 (-46.01, 172.29)	-8.69 (-111.98, 93.09)	2.84 (-99.39, 109.45)
-63.25 (-172.29, 46.01)	Laser	-71.93 (-117.97, -24.56)	-51.07 (-139.54, 34.18)
8.69 (-93.09, 111.98)	71.93 (24.56, 117.97)	Placebo	27.06 (-112.79, 179.88)
-2.84 (-109.45, 99.39)	51.07 (-34.18, 139.54)	-27.06 (-179.88, 112.79)	Triamcinolone

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Laser, Placebo, Triamcinolone	4.62 (-68.95, 94.10)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	46.49 (25.57, 88.78)
Inconsistency Standard Deviation	41.76 (1.80, 92.60)

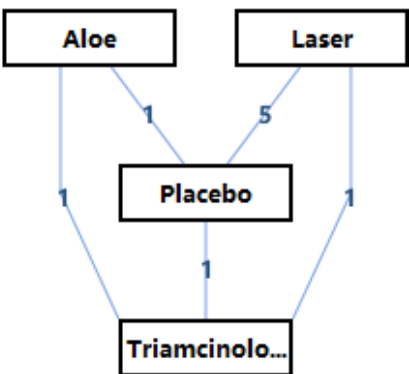
2.4 Convergence Diagnostics

Parameter	PSRF	Number of chains : 4
d.Aloe.Placebo	1.00	Tuning iterations : 20,000
d.Laser.Triamcinolone	1.00	Simulation iterations : 50,000
d.Placebo.Laser	1.00	Thinning interval : 10
w.Laser.Placebo.Triamcinolone	1.00	Inference samples : 10,000
sd.d	1.00	Variance scaling factor: 2.5
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Laser, Placebo	-73.56 (-125.70, -22.42)	-43.34 (-201.05, 115.96)	-70.96 (-115.42, -26.81)	0.67
Laser, Triamcinolone	-40.77 (-154.72, 70.35)	-72.62 (-197.56, 52.79)	-54.41 (-133.09, 20.80)	0.66
Placebo, Triamcinolone	2.43 (-112.79, 118.03)	34.31 (-92.49, 158.95)	16.74 (-60.78, 92.32)	0.66

4. Network structure



Day 1

1. Consistency Model

1.1 Summary estimates

Curcumin	-0.37 (-96.16, 97.91)	-23.52 (-121.32, 77.32)	35.77 (-75.63, 148.25)	44.11 (-24.98, 111.65)	-26.08 (-106.28, 55.32)	-10.56 (-120.97, 103.79)	-1.24 (-56.79, 55.56)
0.37 (-97.91, 96.16)	Doxycycline	-22.54 (-101.25, 51.93)	36.79 (-58.43, 131.02)	44.49 (-24.94, 108.29)	-25.74 (-80.55, 29.01)	-9.82 (-102.66, 83.38)	-0.72 (-83.26, 77.19)
23.52 (-77.32, 121.32)	22.54 (-51.93, 101.25)	Glycyrrhiza	59.22 (-34.92, 152.48)	67.71 (-1.53, 133.22)	-3.13 (-57.59, 52.06)	13.12 (-80.52, 104.59)	22.47 (-60.22, 99.57)
-35.77 (-148.25, 75.63)	-36.79 (-131.02, 58.43)	-59.22 (-152.48, 34.92)	Insulin-liposomal gel	8.30 (-79.64, 92.53)	-62.07 (-137.87, 14.99)	-46.23 (-152.78, 61.73)	-36.81 (-135.30, 56.99)
-44.11 (-111.65, 24.98)	-44.49 (-108.29, 24.94)	-67.71 (-133.22, 1.53)	-8.30 (-92.53, 79.64)	Laser	-70.45 (-107.84, -28.77)	-54.50 (-137.91, 35.31)	-45.11 (-88.94, -1.39)
26.08 (-55.32, 106.28)	25.74 (-29.01, 80.55)	3.13 (-52.06, 57.59)	62.07 (-14.99, 137.87)	70.45 (28.77, 107.84)	Placebo	15.94 (-59.36, 92.86)	25.28 (-35.00, 83.01)
10.56 (-103.79, 120.97)	9.82 (-83.38, 102.66)	-13.12 (-104.59, 80.52)	46.23 (-61.73, 152.78)	54.50 (-35.31, 137.91)	-15.94 (-92.86, 59.36)	Silver nitrate	9.15 (-89.92, 103.20)
1.24 (-55.56, 56.79)	0.72 (-77.19, 83.26)	-22.47 (-99.57, 60.22)	36.81 (-56.99, 135.30)	45.11 (1.39, 88.94)	-25.28 (-83.01, 35.00)	-9.15 (-103.20, 89.92)	Triamcinolone

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8
Curcumin	0.05	0.11	0.18	0.17	0.15	0.11	0.1	0.13
Doxycycline	0.04	0.09	0.19	0.18	0.2	0.15	0.09	0.06
Glycyrrhiza	0.01	0.03	0.06	0.1	0.13	0.17	0.2	0.3
Insulin-liposomal gel	0.37	0.27	0.13	0.09	0.06	0.04	0.02	0.02
Laser	0.47	0.37	0.11	0.03	0.01	0	0	0
Placebo	0	0	0.01	0.03	0.11	0.25	0.37	0.23
Silver nitrate	0.05	0.07	0.13	0.13	0.14	0.14	0.12	0.21
Triamcinolone	0.01	0.06	0.19	0.26	0.2	0.14	0.11	0.05

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	33.57 (18.72, 66.78)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Laser.Placebo	1.00	Number of chains : 4
d.Laser.Triamcinolone	1.00	Tuning iterations : 20,000
d.Placebo.Doxycycline	1.00	Simulation iterations : 50,000
d.Placebo.Glycyrrhiza	1.00	Thinning interval : 10
d.Placebo.Insulinliposomalgel	1.00	Inference samples : 10,000
d.Placebo.Silvernitrate	1.00	Variance scaling factor: 2.5
d.Triamcinolone.Curcumin	1.00	
sd.d	1.00	

2.Inconsistency Model

2.1 Summary estimates

Curcumin	-1.01 (-97.93, 98.18)	-23.17 (-119.67, 73.70)	33.83 (-76.96, 146.31)	43.94 (-27.10, 115.41)	-26.28 (-106.73, 57.30)	-10.71 (-122.07, 100.07)	-0.75 (-54.60, 55.29)
1.01 (-98.18, 97.93)	Doxycycline	-21.97 (-99.46, 53.67)	34.47 (-58.00, 130.14)	45.24 (-22.76, 111.78)	-25.57 (-79.97, 27.68)	-9.36 (-101.74, 82.54)	0.45 (-80.83, 80.36)
23.17 (-73.70, 119.67)	21.97 (-53.67, 99.46)	Glycyrrhiza	57.99 (-34.90, 152.79)	67.35 (-0.81, 131.27)	-3.43 (-55.87, 50.90)	12.43 (-82.33, 108.22)	22.44 (-56.96, 101.81)
-33.83 (-146.31, 76.96)	-34.47 (-130.14, 58.00)	-57.99 (-152.79, 34.90)	Insulin-liposomal gel	10.23 (-75.90, 94.54)	-60.82 (-137.64, 15.77)	-44.96 (-153.51, 61.54)	-35.10 (-132.96, 60.61)
-43.94 (-115.41, 27.10)	-45.24 (-111.78, 22.76)	-67.35 (-131.27, 0.81)	-10.23 (-94.54, 75.90)	Laser	-70.72 (-109.05, -29.71)	-55.52 (-138.86, 33.38)	-44.83 (-88.31, 0.54)
26.28 (-57.30, 106.73)	25.57 (-27.68, 79.97)	3.43 (-50.90, 55.87)	60.82 (-15.77, 137.64)	70.72 (29.71, 109.05)	Placebo	16.19 (-60.01, 91.33)	25.95 (-33.34, 83.79)
10.71 (-100.07, 122.07)	9.36 (-82.54, 101.74)	-12.43 (-108.22, 82.33)	44.96 (-61.54, 153.51)	55.52 (-33.38, 138.86)	-16.19 (-91.33, 60.01)	Silver nitrate	10.45 (-86.44, 107.98)
0.75 (-55.29, 54.60)	-0.45 (-80.36, 80.83)	-22.44 (-101.81, 56.96)	35.10 (-60.61, 132.96)	44.83 (-0.54, 88.31)	-25.95 (-83.79, 33.34)	-10.45 (-107.98, 86.44)	Triamcinolone

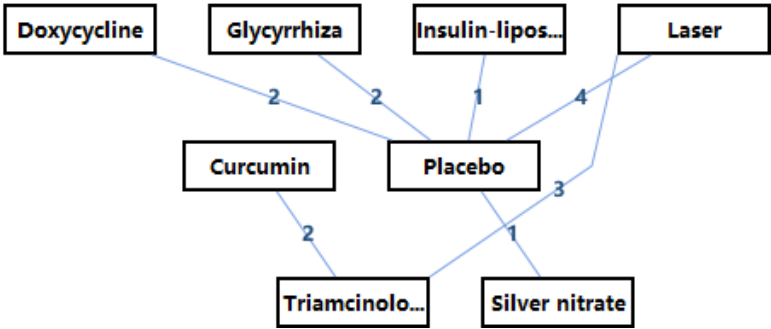
2.2 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	33.45 (18.80, 66.98)
Inconsistency Standard Deviation	48.39 (2.30, 92.92)

2.3 Convergence Diagnostics

Parameter	PSRF	
d.Curcumin.Triamcinolone	1.00	Number of chains : 4
d.Laser.Placebo	1.00	Tuning iterations : 20,000
d.Placebo.Doxycycline	1.00	Simulation iterations : 50,000
d.Placebo.Glycyrrhiza	1.00	Thinning interval : 10
d.Placebo.Insulinliposomalgel	1.02	Inference samples : 10,000
d.Placebo.Silvernitrate	1.00	Variance scaling factor: 2.5
d.Triamcinolone.Laser	1.00	
sd.d	1.00	
sd.w	1.00	

4. Network structure



Day 2

1. Consistency Model

1.1 Summary estimates

Alien		3.40 (-.89.94, 97.62)	9.51 (-.83.70, 101.89)	3.74 (-.93.95, 105.03)	6.08 (-.96.67, 105.08)	19.35 (-.89.84, 128.27)	15.07 (-.92.09, 125.59)	-2.61 (-.98.28, 94.89)	26.29 (-.56.93, 107.58)	-12.57 (-.92.44, 67.22)	56.63 (-.42.74, 155.52)
	Alice		6.20 (-.81.94, 90.51)	-0.23 (-.92.93, 96.77)	2.31 (-.94.38, 99.30)	15.66 (-.78.25, 110.04)	11.39 (-.85.34, 105.51)	-5.58 (-100.22, 96.05)	22.71 (-.5415, 96.85)	-16.06 (-.90.42, 54.32)	52.59 (-.41.81, 146.80)
		-9.51 (-101.89, 83.70)	-6.20 (-.90.51, 81.94)	-5.76 (-.95.41, 86.37)	-3.42 (-.96.59, 90.19)	9.20 (-.87.72, 111.65)	4.95 (-.91.35, 106.57)	-11.60 (-103.14, 79.50)	16.40 (-.54.39, 89.18)	-22.11 (-.84.57, 39.12)	47.10 (-.46.17, 139.35)
		-3.74 (-105.03, 93.95)	0.23 (-.96.77, 92.63)	5.76 (-.86.37, 95.41)	1.39 (-.98.18, 99.64)	15.13 (-.94.57, 124.29)	11.00 (-.96.27, 119.35)	-5.45 (-103.22, 90.01)	22.57 (-.59.82, 101.90)	-16.35 (-.98.78, 61.26)	53.13 (-.50.55, 151.51)
		-6.08 (-105.08, 96.67)	-2.31 (-.99.30, 94.38)	3.42 (-.90.19, 96.59)	-1.39 (-.99.64, 98.18)	13.40 (-.96.90, 124.19)	9.47 (-.98.86, 120.83)	-7.91 (-106.05, 89.84)	20.58 (-.62.06, 105.53)	-18.48 (-101.37, 62.23)	50.88 (-.51.85, 149.69)
		-19.35 (-128.27, 89.84)	-15.66 (-110.04, 78.25)	-9.20 (-111.65, 87.72)	-15.13 (-124.29, 94.57)	-13.40 (-124.19, 96.90)	-3.87 (-103.26, 93.09)	-21.28 (-129.26, 85.89)	7.04 (-.86.29, 98.46)	-31.41 (-124.57, 57.78)	37.63 (-71.27, 144.35)
		-15.07 (-125.58, 92.09)	-11.39 (-105.51, 85.34)	-4.95 (-106.57, 91.35)	-11.00 (-119.35, 96.27)	3.87 (-.93.69, 103.26)	Curcumin	-17.04 (-127.45, 88.97)	11.43 (-.83.21, 102.61)	-26.85 (-119.65, 61.10)	41.30 (-.67.99, 146.83)
		2.61 (-.94.89, 98.28)	5.58 (-.86.05, 100.22)	11.60 (-79.50, 103.14)	5.45 (-.90.01, 103.22)	7.91 (-.89.84, 106.05)	21.28 (-.85.89, 129.26)	Disinfectant	28.11 (-.51.30, 107.09)	-10.93 (-.91.09, 70.94)	58.58 (-.40.87, 160.24)
		-26.29 (-107.58, 56.93)	-22.71 (-.96.85, 54.15)	-16.40 (-.89.18, 54.39)	-22.57 (-101.90, 59.82)	-20.58 (-105.53, 62.06)	-7.04 (-.98.46, 86.29)	-11.43 (-102.61, 83.21)	Doxycycline	-38.99 (-.95.11, 17.90)	30.38 (-.50.84, 109.62)
		12.57 (-.67.22, 92.44)	16.06 (-.54.32, 90.42)	22.11 (-.39.12, 84.57)	16.35 (-.61.26, 98.78)	18.48 (-.62.23, 101.37)	31.41 (-.57.78, 124.57)	26.85 (-.61.10, 119.65)	10.93 (-.70.94, 91.09)	Glycyrrhiza	69.13 (-11.98, 149.48)
		-56.63 (-155.52, 42.74)	-52.59 (-146.80, 41.81)	-47.10 (-139.35, 46.17)	-53.13 (-151.51, 50.55)	-50.68 (-149.69, 51.85)	-37.63 (-144.35, 71.27)	-41.30 (-146.83, 67.99)	-58.58 (-160.24, 40.87)	-30.38 (-109.62, 50.84)	Insulin-lysosomal gel
		-29.49 (-105.91, 50.27)	-25.25 (-.92.58, 45.15)	-19.54 (-79.89, 42.15)	-25.17 (-100.87, 55.25)	-22.68 (-103.82, 55.87)	-9.82 (-.92.50, 76.63)	-14.09 (-.97.34, 74.23)	-31.11 (-107.00, 45.11)	-2.86 (-.54.31, 50.47)	27.64 (-.50.14, 103.60)
		-34.56 (-165.85, 90.71)	-31.16 (-148.57, 86.08)	-24.50 (-152.37, 94.27)	-30.67 (-160.78, 95.77)	-28.81 (-160.42, 101.28)	-16.21 (-.85.68, 53.57)	-19.47 (-139.62, 99.23)	-37.14 (-166.50, 89.64)	-8.54 (-125.04, 102.10)	22.37 (-110.27, 145.21)
		6.22 (-.64.16, 76.51)	9.95 (-.52.65, 74.05)	16.28 (-.43.76, 75.25)	10.06 (-.58.15, 81.57)	12.41 (-.60.24, 85.16)	25.60 (-.56.45, 108.22)	21.33 (-.59.51, 107.67)	4.59 (-.64.75, 73.85)	32.47 (-.94.0, 73.44)	62.85 (-.6.66, 132.31)
		-13.22 (-.95.10, 67.89)	-9.42 (-70.88, 54.10)	-3.68 (-76.70, 64.27)	-9.37 (-.88.99, 74.07)	-7.17 (-.91.53, 74.67)	6.23 (-.64.54, 77.41)	1.58 (-.69.17, 73.02)	-14.80 (-.96.80, 64.63)	12.73 (-.46.42, 69.79)	43.60 (-.38.94, 122.50)
		-14.46 (-108.70, 78.86)	-10.58 (-.93.87, 73.83)	-4.99 (-.90.65, 79.91)	-10.68 (-104.10, 83.98)	-8.83 (-106.12, 88.51)	4.33 (-.87.33, 99.20)	0.65 (-.92.87, 98.14)	-16.63 (-107.63, 76.71)	11.50 (-.63.35, 86.18)	42.77 (-.56.01, 136.19)
		-28.43 (-124.59, 71.60)	-25.03 (-119.07, 70.44)	-19.51 (-110.16, 73.63)	-25.38 (-123.16, 80.33)	-22.95 (-122.65, 78.43)	-9.38 (-117.58, 102.05)	-13.45 (-120.23, 98.01)	-30.48 (-128.99, 67.54)	-3.04 (-.82.75, 80.78)	27.71 (-70.59, 129.03)

29.49 (-50.27, 105.91)	34.56 (-30.71, 165.85)	-6.22 (-76.51, 64.16)	13.22 (-67.89, 95.10)	14.46 (-78.86, 108.70)	28.43 (-71.60, 124.59)
25.25 (-45.15, 92.58)	31.16 (-86.08, 148.57)	-9.96 (-74.05, 52.65)	9.42 (-54.10, 70.88)	10.58 (-73.83, 93.87)	25.03 (-70.44, 119.07)
19.54 (-42.15, 79.89)	24.50 (-34.27, 152.37)	-16.28 (-75.25, 43.76)	3.68 (-64.27, 76.70)	4.99 (-79.91, 90.65)	19.51 (-73.63, 110.16)
25.17 (-55.25, 100.87)	30.67 (-95.77, 160.78)	-10.06 (-81.57, 58.15)	9.37 (-74.07, 88.99)	10.68 (-83.98, 104.10)	25.38 (-80.33, 123.16)
22.69 (-55.87, 103.82)	28.81 (-101.28, 160.42)	-12.41 (-85.16, 60.34)	7.17 (-74.67, 91.53)	8.83 (-88.51, 106.12)	22.95 (-78.43, 122.65)
9.82 (-76.63, 92.50)	16.21 (-53.57, 85.68)	-25.60 (-108.22, 56.45)	-6.23 (-77.41, 64.54)	-4.33 (-99.20, 87.33)	9.99 (-102.05, 117.58)
14.09 (-74.23, 97.34)	19.47 (-99.23, 139.62)	-21.33 (-107.67, 59.51)	-1.58 (-73.02, 69.17)	-0.65 (-98.14, 92.87)	13.45 (-98.01, 120.23)
31.11 (-45.11, 107.00)	37.14 (-89.64, 166.50)	-4.59 (-73.85, 64.75)	14.80 (-64.63, 96.80)	16.63 (-76.71, 107.63)	30.48 (-67.54, 128.99)
2.86 (-50.47, 54.31)	8.54 (-102.10, 125.04)	-32.47 (-73.44, 9.40)	-12.73 (-69.79, 46.42)	-11.50 (-86.18, 63.35)	3.04 (-80.78, 82.75)
41.82 (-57.5, 87.94)	47.78 (-64.27, 164.05)	6.31 (-32.85, 46.47)	25.60 (-28.76, 83.09)	26.77 (-45.24, 100.51)	41.47 (-39.25, 119.63)
-27.64 (-103.60, 50.14)	-22.37 (-145.21, 110.27)	-62.85 (-132.31, 6.66)	-43.60 (-122.50, 38.94)	-42.77 (-136.19, 56.01)	-27.71 (-129.03, 70.59)
Laser	5.89 (-101.97, 117.71)	-35.33 (-68.12, -0.74)	-16.00 (-60.86, 31.63)	-14.36 (-81.77, 55.86)	-0.64 (-78.36, 76.07)
-5.89 (-117.71, 101.97)	N-acetylcysteine	-40.81 (-149.04, 65.00)	-21.80 (-121.29, 76.19)	-19.88 (-138.34, 97.45)	-6.16 (-136.72, 120.53)
35.33 (0.74, 68.12)	40.81 (-85.00, 149.04)	Placebo	19.69 (-21.03, 61.57)	21.17 (-41.69, 83.57)	35.36 (-36.44, 104.58)
16.00 (-31.63, 60.86)	21.80 (-76.19, 121.29)	-19.69 (-61.57, 21.03)	Triamcinolone	1.62 (-62.58, 63.40)	15.26 (-67.19, 97.45)
14.36 (-55.86, 81.77)	19.88 (-97.45, 138.34)	-21.17 (-73.57, 41.69)	-1.62 (-63.40, 62.58)	Triester Glycerol Oxide	14.37 (-80.76, 107.03)
0.64 (-76.07, 78.36)	6.16 (-120.53, 136.72)	-35.36 (-104.58, 36.44)	-15.26 (-97.45, 67.19)	-14.37 (-107.03, 80.76)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17
Allicin	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.08	0.1	0.13
Aloe	0.01	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08
Amlexanox	0.02	0.04	0.05	0.05	0.06	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.06	0.06	0.07	0.06	0.05
Berberine gelatin	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.09	0.1
Chitosan	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.08	0.11
Chlorhexidine	0.03	0.09	0.1	0.08	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.05	0.05	0.06	0.05
Curcumin	0.06	0.07	0.07	0.07	0.06	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.08
Diosmectite	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.08	0.11	0.14
Doxycycline	0.03	0.08	0.1	0.11	0.11	0.11	0.1	0.09	0.07	0.06	0.05	0.03	0.03	0.02	0.01	0.01	0
Glycyrrhiza	0	0	0	0	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.11	0.12	0.16	0.17	0.13
Insulin-liposomal gel	0.38	0.18	0.11	0.07	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Laser	0.02	0.07	0.11	0.14	0.14	0.13	0.11	0.09	0.07	0.05	0.03	0.02	0.01	0.01	0	0	0
N-acetylcysteine	0.22	0.13	0.08	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05
Placebo	0	0	0	0	0	0	0.01	0.02	0.04	0.07	0.11	0.16	0.2	0.2	0.13	0.06	0.01
Triamcinolone	0	0.01	0.02	0.04	0.07	0.09	0.11	0.12	0.13	0.12	0.1	0.07	0.06	0.04	0.02	0.01	0
Triester Glycerol Oxide	0.03	0.05	0.06	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04
Zinc	0.1	0.12	0.1	0.08	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	30.83 (18.70, 56.88)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Chlorhexidine.Nacetylcysteine	1.00	
d.Placebo.Allicin	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycline	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Insulinliposomalgel	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Aloe	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Laser	1.00	
d.Triamcinolone.Placebo	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
sd.d	1.00	
		Number of chains : 4
		Tuning iterations : 20,000
		Simulation iterations : 50,000
		Thinning interval : 10
		Inference samples : 10,000
		Variance scaling factor: 2.5

2.Inconsistency Model

2.1 Summary estimates

Allicin	0.57 (-91.04, 92.65)	-8.17 (-107.31, 95.14)	3.67 (-92.49, 97.91)	4.88 (-95.09, 102.50)	12.05 (-94.00, 122.61)	8.28 (-98.60, 112.96)
-0.57 (-92.65, 91.04)	Aloe	-8.52 (-102.22, 85.71)	3.12 (-89.10, 93.14)	5.19 (-89.16, 96.18)	11.50 (-83.21, 105.19)	7.28 (-87.59, 98.59)
8.17 (-95.14, 107.31)		Amlexanox	11.42 (-89.14, 110.47)	12.40 (-90.88, 113.48)	20.47 (-89.62, 124.61)	15.78 (-90.52, 119.68)
-3.67 (-97.91, 92.49)			Berberine gelatin	1.90 (-96.14, 98.24)	9.03 (-97.27, 115.03)	4.14 (-102.24, 111.37)
-4.88 (-102.50, 95.09)				Chitosan	6.86 (-101.00, 115.22)	3.20 (-103.89, 109.15)
-12.05 (-122.61, 94.00)					Chlorhexidine	-3.78 (-106.82, 91.86)
-8.28 (-112.96, 98.60)						Curcumin
1.87 (-94.40, 99.94)						
-25.84 (-103.01, 54.72)						
19.94 (-69.38, 110.60)						
-56.54 (-151.60, 41.49)						
-8.69 (-98.69, 82.35)						
-28.04 (-157.85, 101.79)						
6.05 (-59.80, 75.65)						
-5.80 (-88.67, 76.05)						
-11.85 (-106.97, 81.91)						
-28.21 (-123.86, 67.75)						

-1.87 (-99.94, 94.40)	25.84 (-54.72, 103.01)	-19.94 (-110.60, 69.38)	56.54 (-41.49, 151.60)	8.69 (-82.35, 98.69)	28.04 (-101.79, 157.85)	-6.05 (-75.65, 59.80)	5.80 (-76.05, 88.67)	11.85 (-61.91, 106.97)	28.21 (-67.75, 123.86)
-2.00 (-97.54, 89.75)	25.44 (-49.10, 95.41)	-20.74 (-106.27, 60.02)	56.17 (-34.45, 145.55)	7.93 (-73.10, 85.31)	27.13 (-93.20, 148.34)	-6.70 (-70.69, 52.44)	5.28 (-55.58, 65.43)	11.58 (-70.57, 92.55)	28.13 (-64.25, 118.20)
5.75 (-96.63, 105.31)	33.39 (-53.63, 115.76)	-11.95 (-79.42, 50.41)	64.62 (-37.48, 162.01)	16.09 (-45.77, 76.53)	36.02 (-93.54, 160.43)	-12.46 (-94.50, 70.77)	14.31 (-64.68, 89.91)	19.35 (-77.14, 112.88)	36.44 (-65.67, 133.41)
-4.90 (-100.25, 88.79)	22.38 (-58.52, 99.36)	-23.50 (-113.16, 65.79)	52.67 (-43.14, 149.39)	5.21 (-83.88, 94.18)	24.07 (-106.64, 153.77)	-9.75 (-78.11, 57.83)	2.33 (-75.62, 84.44)	8.22 (-83.80, 104.89)	24.71 (-69.38, 121.42)
-6.86 (-105.30, 91.45)	20.54 (-61.47, 101.78)	-24.72 (-116.87, 67.47)	51.33 (-46.18, 149.55)	3.27 (-87.18, 95.98)	23.13 (-109.46, 152.42)	-11.54 (-82.46, 59.63)	0.97 (-80.90, 84.76)	6.58 (-85.99, 103.77)	22.70 (-75.87, 123.42)
-13.80 (-124.83, 81.54)	13.57 (-80.29, 104.97)	-32.52 (-130.35, 64.35)	44.70 (-63.74, 151.02)	-4.11 (-95.73, 90.90)	16.03 (-52.07, 85.50)	-18.62 (-102.47, 64.01)	-5.34 (-77.90, 64.41)	-0.05 (-94.59, 93.31)	16.57 (-92.96, 121.28)
-9.68 (-115.92, 96.24)	17.45 (-72.45, 106.93)	-27.84 (-125.10, 66.00)	48.96 (-58.09, 154.57)	-0.15 (-87.26, 90.18)	19.75 (-99.46, 142.65)	-13.99 (-95.92, 67.11)	-2.01 (-69.78, 69.58)	3.89 (-88.40, 99.75)	20.91 (-86.47, 125.09)
Diuretic	27.44 (-52.00, 106.47)	-18.22 (-108.64, 71.45)	58.73 (-35.87, 153.82)	10.18 (-76.43, 99.96)	29.54 (-102.57, 163.99)	-4.78 (-73.08, 63.50)	7.82 (-71.26, 90.56)	13.19 (-76.00, 108.44)	30.27 (-66.63, 125.15)
-27.44 (-106.47, 52.00)	Doxycycline	-45.06 (-119.85, 25.08)	30.71 (-47.09, 109.95)	-17.02 (-86.86, 51.87)	2.23 (-114.31, 120.71)	-32.08 (-74.10, 7.39)	-19.57 (-77.20, 42.34)	-13.61 (-88.15, 62.31)	2.95 (-77.09, 80.75)
18.22 (-71.45, 108.64)	45.06 (-25.08, 119.85)	Glycyrrhiza	77.22 (-15.05, 168.39)	28.80 (-26.28, 84.53)	48.38 (-73.96, 170.94)	17.31 (-28.07, 61.19)	26.09 (-37.52, 94.50)	31.66 (-54.47, 118.29)	48.20 (-42.08, 141.04)
-58.73 (-153.82, 35.87)	-30.71 (-108.95, 47.09)	-77.22 (-168.39, 15.05)	Inulin-liposomal gel	-48.23 (-137.98, 42.27)	-28.13 (-157.14, 100.25)	-62.97 (-131.39, 5.72)	-50.82 (-128.96, 30.35)	-44.46 (-137.86, 48.74)	-28.57 (-124.37, 69.17)
-10.18 (-99.96, 76.43)	17.02 (-51.87, 86.86)	-28.80 (-84.53, 26.28)	48.23 (-42.27, 137.98)	Laser	20.35 (-98.03, 136.11)	-28.53 (-97.33, 43.83)	-2.44 (-58.54, 56.23)	3.56 (-76.77, 82.97)	19.57 (-67.55, 110.40)
-29.54 (-165.99, 102.57)	-2.23 (-120.71, 114.31)	-48.38 (-170.94, 73.96)	28.13 (-100.25, 157.14)	-20.35 (-136.11, 98.03)	N-acetylcysteine	-34.42 (-145.38, 75.47)	-21.71 (-123.43, 80.01)	-15.49 (-139.26, 105.04)	0.63 (-132.36, 128.30)
4.78 (-63.50, 73.08)	32.08 (-7.39, 74.10)	-17.31 (-61.19, 28.07)	62.97 (-5.72, 131.39)	28.53 (-43.83, 97.33)	34.42 (-75.47, 145.38)	Placebo	12.29 (-29.47, 58.66)	18.50 (-42.97, 82.61)	34.99 (-33.54, 101.57)
-7.82 (-90.56, 71.26)	19.57 (-42.34, 77.20)	-26.09 (-94.50, 37.52)	50.82 (-30.55, 128.86)	2.44 (-56.23, 58.54)	21.71 (-80.01, 123.43)	-12.29 (-58.66, 29.47)	Triamcinolone	5.57 (-57.38, 69.33)	22.09 (-60.36, 104.20)
-13.19 (-108.44, 76.00)	13.61 (-62.31, 88.15)	-31.66 (-118.29, 54.47)	44.46 (-48.74, 137.66)	-3.56 (-82.97, 76.77)	15.49 (-105.04, 139.26)	-18.50 (-82.61, 42.97)	-5.57 (-69.33, 57.38)	Triester Glycerol Olate	16.90 (-78.33, 106.91)
-30.27 (-125.15, 66.63)	-2.95 (-80.75, 77.09)	-48.20 (-141.04, 42.08)	28.57 (-69.17, 124.37)	-19.57 (-110.40, 67.55)	-0.63 (-128.30, 132.36)	-34.99 (-101.57, 33.54)	-22.09 (-104.20, 60.36)	-16.90 (-106.91, 78.33)	Zinc

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Glycyrrhiza, Laser, Placebo, Triamcinolone	2.55 (-55.03, 60.50)
Laser, Placebo, Triamcinolone	9.41 (-48.09, 83.17)
Laser, Placebo, Triamcinolone	9.41 (-48.09, 83.17)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	30.07 (17.32, 57.49)
Inconsistency Standard Deviation	31.46 (2.78, 74.72)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Allicin.Placebo	1.00	
d.Aloe.Triamcinolone	1.01	
d.Amlexanox.Glycyrrhiza	1.00	
d.Chlorhexidine.Nacetylcysteine	1.00	
d.Laser.Amlexanox	1.03	
d.Placebo.Aloe	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Insulinliposomalgel	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Laser	1.01	
d.Triamcinolone.TriesterGlycerol...	1.00	
w.Glycyrrhiza.Laser.Triamcinolon...	1.00	
w.Laser.Placebo.Triamcinolone	1.01	
w.Laser.Placebo.Triamcinolone	1.01	
sd.d	1.01	
sd.w	1.01	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

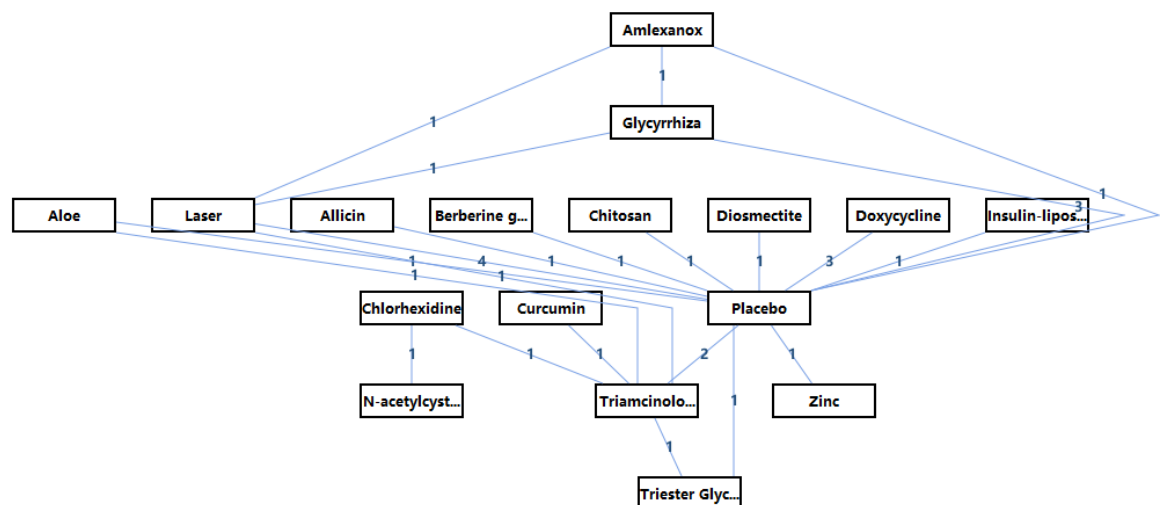
Inference samples : 10,000

Variance scaling factor: 2.5

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Glycyrrhiza, Laser	22.17 (-50.35, 96.69)	47.47 (-14.03, 106.87)	41.82 (-5.75, 87.94)	0.55
Laser, Placebo	-48.05 (-80.34, -14.42)	1.37 (-53.56, 56.74)	-35.33 (-68.12, -0.74)	0.11
Laser, Triamcinolone	12.25 (-61.23, 86.57)	-34.09 (-94.67, 28.70)	-16.00 (-60.86, 31.63)	0.29
Placebo, Triamcinolone	7.80 (-41.33, 55.90)	55.55 (-27.48, 139.67)	19.69 (-21.03, 61.57)	0.29

4. Network structure



Day 3

1. Consistency Model

1.1 Summary estimates

Aloe	-9.13 (-73.82, 57.44)	58.24 (-24.84, 139.41)	29.60 (-52.29, 110.36)	-13.20 (-101.11, 78.74)	-3.36 (-83.68, 76.37)	22.86 (-43.10, 85.01)	0.27 (-69.07, 69.50)	61.60 (-19.68, 140.69)	46.86 (-13.22, 105.60)	-14.13 (-68.67, 39.93)
	Artichoke	66.83 (-8.92, 143.52)	38.96 (-35.34, 114.71)	-4.16 (-66.53, 59.51)	5.40 (-71.43, 78.71)	31.59 (-29.19, 87.67)	9.23 (-54.96, 69.92)	70.28 (-6.97, 142.83)	56.14 (4.09, 104.54)	-4.96 (-50.43, 37.96)
-58.24 (-139.41, 24.84)	-66.83 (-143.52, 8.92)	Chlorella	-28.43 (-117.18, 59.80)	-70.95 (-168.23, 28.69)	-61.12 (-155.95, 30.59)	-35.39 (-114.68, 41.83)	-57.86 (-143.61, 23.86)	3.43 (-90.19, 92.85)	-10.93 (-82.32, 59.07)	-71.92 (-142.56, -1.15)
-29.60 (-110.36, 52.29)	-38.96 (-114.71, 35.34)	Curcumin	42.28 (-56.86, 139.10)	-42.28 (-139.10, 56.66)	-32.80 (-125.26, 57.32)	-6.75 (-85.53, 68.69)	-29.10 (-109.56, 49.50)	31.91 (-60.27, 122.99)	17.39 (-51.96, 86.16)	-43.73 (-112.15, 23.90)
13.20 (-78.74, 101.11)	4.16 (-59.51, 66.53)	Decamethasone	-10.06 (-104.54, 89.53)	10.06 (-89.53, 104.54)	Decoactive	35.63 (-50.23, 118.63)	13.62 (-78.11, 98.67)	74.78 (-25.07, 168.47)	59.96 (-19.85, 137.81)	-1.15 (-79.00, 73.21)
3.36 (-76.37, 83.68)	-5.40 (-78.71, 71.43)	61.12 (-30.59, 155.95)	32.80 (-57.32, 125.26)	-10.06 (-104.54, 89.53)	Decoactive	26.04 (-44.12, 95.62)	3.72 (-71.43, 78.24)	64.56 (-19.38, 147.67)	50.19 (-16.83, 118.73)	-10.83 (-69.15, 49.83)
-22.86 (-85.01, 43.10)	-31.59 (-87.67, 29.19)	35.39 (-41.83, 114.68)	6.75 (-88.69, 85.53)	-35.63 (-118.63, 50.29)	-26.04 (-95.62, 44.12)	Decoycline	-22.80 (-77.75, 34.90)	38.74 (-29.50, 108.94)	24.10 (-23.43, 72.37)	-36.76 (-71.84, 0.37)
-0.27 (-69.50, 69.07)	-9.23 (-69.92, 54.96)	57.86 (-23.86, 143.61)	29.10 (-49.50, 109.56)	-13.62 (-98.67, 78.11)	-3.72 (-76.24, 71.43)	22.80 (-34.90, 77.75)	Glycerin	60.89 (-10.83, 134.76)	46.81 (-6.24, 101.02)	-14.03 (-57.80, 29.48)
-61.60 (-140.69, 19.68)	-70.28 (-142.83, 6.97)	-3.43 (-92.85, 90.19)	-31.91 (-122.98, 60.27)	-74.78 (-168.47, 25.07)	-64.56 (-147.67, 19.38)	-38.74 (-108.94, 29.50)	-60.89 (-134.76, 10.83)	Insulin-liposomal gel	-14.35 (-82.01, 53.90)	-75.51 (-134.42, -14.96)
-46.86 (-105.60, 13.22)	-56.14 (-104.54, -4.09)	10.93 (-59.07, 82.32)	-17.39 (-86.16, 51.96)	-59.96 (-137.81, 19.85)	-50.19 (-118.73, 16.83)	-24.10 (-72.37, 23.43)	-46.81 (-101.02, 6.24)	14.35 (-53.90, 82.01)	Laser	-61.05 (-92.61, -29.60)
14.13 (-39.93, 66.67)	4.96 (-37.96, 50.43)	71.92 (1.15, 142.56)	43.73 (-23.90, 112.15)	1.15 (-73.21, 79.00)	10.83 (-49.83, 69.15)	36.76 (-0.37, 71.84)	14.03 (-29.48, 57.80)	75.51 (14.96, 134.42)	61.05 (29.60, 92.61)	Picacho
5.98 (-61.32, 73.53)	-2.75 (-64.12, 57.58)	63.64 (-15.11, 144.57)	36.06 (-42.88, 115.66)	-6.69 (-93.03, 79.84)	2.82 (-69.87, 75.09)	28.73 (-26.37, 83.25)	6.20 (-54.96, 65.87)	67.46 (-5.40, 140.36)	52.91 (1.21, 104.12)	-8.11 (-49.17, 34.11)
-6.45 (-85.81, 72.96)	-15.38 (-86.67, 57.50)	51.08 (-36.22, 142.43)	22.82 (-67.11, 111.76)	-19.19 (-116.97, 76.94)	-10.22 (-55.10, 76.12)	16.00 (-54.33, 84.00)	-6.85 (-78.39, 66.46)	54.63 (-29.53, 138.81)	40.64 (-26.14, 107.37)	-20.83 (-79.71, 37.56)
-77.39 (-178.97, 23.86)	-86.61 (-182.37, 7.55)	-19.81 (-78.48, 39.13)	-47.86 (-152.07, 54.57)	-90.71 (-203.98, 23.26)	-81.19 (-189.04, 25.72)	-55.15 (-152.31, 39.83)	-77.80 (-179.72, 20.96)	-16.38 (-125.12, 89.41)	-30.82 (-122.74, 57.69)	-92.29 (-183.49, -3.94)
-28.36 (-83.09, 23.71)	-37.42 (-82.40, 6.48)	29.49 (-33.83, 91.32)	1.27 (-60.03, 62.00)	-41.79 (-118.90, 36.15)	-31.54 (-100.86, 34.36)	-5.90 (-55.14, 40.25)	-28.11 (-83.69, 24.95)	33.05 (-35.86, 100.94)	18.51 (-15.44, 50.02)	-42.65 (-74.68, -12.28)
-47.12 (-126.67, 32.70)	-56.04 (-130.32, 18.89)	10.73 (-81.42, 104.71)	-17.53 (-106.36, 74.00)	-60.03 (-155.83, 39.79)	-50.40 (-138.56, 35.55)	-24.30 (-94.77, 45.56)	-46.96 (-122.90, 25.52)	14.70 (-71.00, 97.87)	0.22 (-68.49, 66.46)	-61.36 (-121.02, -0.88)

-5.98 (-7353, 61.32)	6.45 (-72.96, 85.81)	77.39 (-23.86, 178.97)	28.36 (-23.71, 83.09)	47.12 (-32.70, 126.67)
2.75 (-57.58, 64.12)	15.38 (-57.50, 88.67)	86.61 (-7.55, 182.37)	37.42 (-6.48, 82.40)	56.04 (-18.89, 130.32)
-63.64 (-144.57, 15.11)	-51.08 (-142.43, 36.22)	19.81 (-39.13, 78.46)	-29.49 (-91.32, 33.83)	-10.73 (-104.71, 81.42)
-36.06 (-115.66, 42.88)	-22.62 (-111.76, 67.11)	47.86 (-54.57, 152.07)	-1.27 (-62.00, 60.03)	17.53 (-74.00, 106.36)
6.69 (-79.84, 93.03)	19.19 (-76.94, 116.97)	90.71 (-23.26, 203.98)	41.79 (-36.15, 118.90)	60.03 (-39.79, 155.83)
-2.82 (-75.09, 69.87)	10.22 (-76.12, 95.10)	81.19 (-25.72, 189.04)	31.54 (-34.36, 100.98)	50.40 (-35.55, 138.56)
-28.73 (-83.25, 26.37)	-16.00 (-84.00, 54.33)	55.15 (-39.83, 152.31)	5.90 (-40.25, 55.14)	24.30 (-45.56, 94.77)
-6.20 (-65.87, 54.98)	6.95 (-66.46, 78.39)	77.80 (-20.96, 179.72)	28.11 (-24.95, 83.69)	46.96 (-25.52, 122.90)
-67.46 (-140.36, 5.40)	-54.63 (-138.61, 29.53)	16.38 (-69.41, 125.12)	-33.05 (-100.94, 35.86)	-14.70 (-97.87, 71.00)
-52.91 (-104.12, -1.21)	-40.64 (-107.37, 26.14)	30.82 (-57.69, 122.74)	-18.51 (-50.02, 15.44)	-0.22 (-66.46, 68.49)
8.11 (-34.11, 49.17)	20.63 (-37.56, 79.71)	92.29 (3.94, 183.49)	42.65 (12.28, 74.68)	61.36 (0.88, 121.02)
Probiotics	12.44 (-57.90, 84.39)	83.66 (-11.37, 181.98)	34.61 (-16.07, 86.79)	53.05 (-19.85, 127.95)
-12.44 (-84.35, 57.90)	Silver nitrate	71.34 (-33.85, 176.85)	21.78 (-43.40, 88.72)	39.93 (-42.00, 123.78)
-83.66 (-181.98, 11.37)	-71.34 (-176.85, 33.85)	Sucralfate	-49.17 (-135.75, 35.44)	-30.63 (-139.82, 78.64)
-34.61 (-86.79, 16.07)	-21.78 (-88.72, 43.40)	49.17 (-35.44, 135.75)	Triamcinolone	18.72 (-50.10, 86.48)
-53.05 (-127.95, 19.85)	-39.93 (-123.78, 42.00)	30.63 (-76.64, 139.82)	-18.72 (-66.48, 50.10)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16
Aloe	0	0	0.01	0.02	0.02	0.03	0.05	0.08	0.09	0.11	0.11	0.11	0.09	0.09	0.09	0.1
Amlexanox	0	0	0	0	0.01	0.01	0.02	0.04	0.06	0.09	0.11	0.13	0.14	0.14	0.17	0.08
Chlorhexidine	0.07	0.29	0.19	0.13	0.09	0.06	0.05	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0
Curcumin	0.05	0.06	0.09	0.09	0.1	0.1	0.09	0.09	0.08	0.06	0.05	0.04	0.03	0.03	0.03	0.02
Dexamethasone	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.05	0.05	0.06	0.07	0.07	0.07	0.08	0.12	0.3
Diosmectite	0	0.01	0.01	0.02	0.03	0.03	0.05	0.05	0.08	0.09	0.1	0.09	0.09	0.08	0.11	0.16
Doxycycline	0	0.01	0.03	0.06	0.08	0.12	0.14	0.16	0.13	0.1	0.07	0.04	0.02	0.01	0.01	0
Glycyrrhiza	0	0	0.01	0.01	0.02	0.03	0.04	0.07	0.1	0.12	0.13	0.12	0.11	0.09	0.08	0.07
Insulin-liposomal gel	0.24	0.19	0.18	0.12	0.08	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0	0	0	0
Laser	0.03	0.1	0.18	0.23	0.21	0.12	0.06	0.03	0.02	0.01	0	0	0	0	0	0
Placebo	0	0	0	0	0	0	0	0	0.01	0.02	0.06	0.15	0.23	0.27	0.2	0.07
Probiotics	0	0	0	0.01	0.01	0.02	0.03	0.05	0.07	0.1	0.12	0.12	0.12	0.12	0.11	0.11
Silver nitrate	0.01	0.01	0.03	0.03	0.05	0.06	0.07	0.08	0.1	0.1	0.1	0.08	0.07	0.07	0.07	0.08
Sucralfate	0.47	0.18	0.1	0.06	0.05	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0	0.01	0.01
Triamcinolone	0	0	0.02	0.05	0.13	0.21	0.23	0.17	0.1	0.05	0.02	0.01	0	0	0	0
Zinc	0.12	0.13	0.14	0.14	0.12	0.09	0.07	0.06	0.05	0.03	0.02	0.02	0.01	0.01	0.01	0.01

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	26.72 (16.53, 48.07)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Amlexanox.Dexamethasone	1.00	
d.Chlorhexidine.Sucralfate	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Insulinliposomalgel	1.03	
d.Placebo.Probiotics	1.00	
d.Placebo.Silvernitrate	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Aloe	1.00	
d.Triamcinolone.Amlexanox	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Laser	1.00	
d.Triamcinolone.Placebo	1.00	
sd.d	1.00	

Number of chains

:

4

Tuning iterations

:

20,000

Simulation iterations

:

50,000

Thinning interval

:

10

Inference samples

:

10,000

Variance scaling factor:

2.5

2.Inconsistency Model

2.1 Summary estimates

Aloe	-0.63 (-0.67, 65.06)	66.97 (-17.22, 147.56)	39.50 (-43.13, 120.18)	-4.82 (-98.01, 85.74)	3.40 (-76.52, 84.82)	30.21 (-35.25, 92.99)	7.73 (-61.80, 74.76)
0.63 (-65.06, 67.67)	Amlexanox	67.86 (-8.74, 142.50)	40.34 (-36.09, 111.87)	-4.18 (-65.17, 55.25)	4.30 (-68.23, 76.45)	31.08 (-27.05, 86.75)	8.86 (-52.78, 67.51)
-66.97 (-147.56, 17.22)		Chlorhexidine	-27.67 (-112.30, 60.21)	-71.84 (-169.01, 24.81)	-63.81 (-152.29, 30.14)	-36.49 (-116.24, 42.30)	-59.56 (-140.81, 23.44)
-39.50 (-120.18, 43.13)			Curcumin	-44.12 (-139.47, 53.31)	-35.67 (-124.35, 56.12)	-8.58 (-85.57, 66.74)	-31.44 (-110.59, 47.74)
4.82 (-85.74, 98.01)				Dexamethasone	8.68 (-85.34, 105.12)	35.31 (-46.23, 117.62)	12.66 (-72.21, 99.27)
-3.40 (-84.82, 76.52)					Diosmectite	26.30 (-41.97, 95.18)	3.80 (-69.68, 74.13)
-30.21 (-92.99, 35.25)						Doxycycline	-22.18 (-77.04, 30.93)
-7.73 (-74.76, 61.80)							Glycyrrhiza
-68.09 (-148.03, 14.06)							
-56.19 (-121.55, 5.93)							
7.19 (-47.63, 62.64)							
-0.52 (-70.85, 68.74)							
-13.42 (-92.52, 64.99)							
-86.89 (-186.08, 19.65)							
-28.73 (-100.57, 45.93)							
-54.30 (-135.63, 26.92)							

68.09 (-14.06, 148.03)	56.19 (-5.93, 121.55)	-7.19 (-62.64, 47.63)	0.52 (-68.74, 70.85)	13.42 (-64.99, 92.52)	86.89 (-19.65, 186.08)	28.75 (-45.93, 100.57)	54.30 (-26.92, 135.63)
69.15 (-6.32, 140.56)	57.62 (4.94, 111.06)	-6.30 (-50.34, 37.77)	1.21 (-59.34, 61.07)	14.46 (-56.69, 85.06)	86.45 (-9.78, 181.35)	38.35 (-5.33, 83.15)	55.02 (-20.30, 130.82)
1.61 (-90.99, 92.20)	-9.46 (-81.48, 59.55)	-7.414 (-143.66, -2.95)	-66.98 (-148.52, 16.54)	-53.91 (-141.59, 35.58)	19.22 (-37.90, 76.88)	-28.66 (-89.86, 32.53)	-12.07 (-103.71, 82.66)
29.01 (-61.39, 116.69)	18.16 (-52.88, 86.50)	-4.601 (-112.86, 21.72)	-38.15 (-117.37, 39.03)	-25.24 (-112.88, 62.55)	47.01 (-58.02, 150.14)	-1.36 (-59.09, 58.07)	15.38 (-77.14, 106.34)
72.77 (-23.04, 170.57)	61.64 (-18.88, 142.46)	-1.80 (-75.51, 76.17)	5.55 (-79.78, 92.52)	18.06 (-75.32, 114.96)	90.98 (-23.22, 204.87)	42.56 (-31.70, 120.26)	59.30 (-36.77, 158.03)
64.40 (-18.77, 146.90)	52.76 (-19.28, 126.30)	-10.71 (-69.36, 47.99)	-3.16 (-76.23, 68.52)	9.63 (-73.42, 92.23)	82.53 (-280.7, 187.00)	34.38 (-33.95, 101.87)	50.59 (-34.03, 135.09)
37.92 (-31.35, 107.53)	26.94 (-26.66, 81.16)	-37.11 (-70.89, -1.42)	-29.25 (-84.27, 24.32)	-16.59 (-83.04, 51.53)	55.62 (-43.26, 152.33)	7.60 (-40.60, 57.06)	24.09 (-44.29, 93.93)
60.24 (-10.31, 131.93)	49.26 (-9.15, 107.56)	-1.457 (-56.69, 27.09)	-6.94 (-66.32, 52.20)	6.01 (-64.22, 79.02)	78.25 (-22.81, 179.68)	30.15 (-22.74, 84.06)	46.86 (-25.69, 120.18)
Insulin-thiopyronal gel	-11.34 (-81.86, 59.06)	-7.522 (-132.46, -15.52)	-66.84 (-137.71, 3.49)	-54.53 (-134.33, 28.68)	18.39 (-91.13, 126.04)	-30.83 (-96.73, 39.62)	-13.35 (-97.20, 71.51)
11.34 (-59.06, 81.86)	Laser	-6.125 (-93.02, -28.02)	-56.02 (-113.39, 1.52)	-43.14 (-114.11, 27.67)	29.36 (-63.98, 120.81)	-19.26 (-54.50, 18.24)	-2.32 (-75.25, 71.60)
75.22 (15.52, 132.46)	61.25 (28.02, 93.02)	Placebo	7.78 (-34.66, 48.39)	20.41 (-36.01, 78.14)	93.05 (-0.58, 182.72)	51.67 (-5.55, 126.24)	61.51 (1.09, 121.53)
66.84 (-3.49, 137.71)	56.02 (-1.52, 113.39)	-7.78 (-48.39, 34.66)	Probiotics	12.95 (-58.15, 84.04)	85.89 (-16.53, 184.04)	36.89 (-14.58, 90.96)	53.38 (-19.57, 126.79)
54.53 (-28.66, 134.33)	43.14 (-27.67, 114.11)	-20.41 (-78.14, 36.01)	-12.95 (-84.04, 58.15)	Silver nitrate	72.50 (-38.93, 176.63)	24.37 (-42.72, 89.91)	40.73 (-42.03, 124.10)
-18.39 (-126.04, 91.13)	-29.36 (-120.81, 63.98)	-9.305 (-182.72, 0.89)	-85.89 (-184.04, 16.53)	-72.50 (-176.63, 33.83)	Succinylate	-48.24 (-132.24, 39.58)	-31.83 (-136.29, 80.66)
30.83 (-39.62, 96.73)	19.26 (-18.24, 54.50)	-5.167 (-126.24, 5.55)	-36.89 (-90.96, 14.58)	-24.37 (-89.91, 42.72)	48.24 (-39.58, 132.24)	Triamcinolone	16.64 (-52.41, 85.48)
13.35 (-71.51, 97.20)	2.32 (-71.60, 75.25)	-6.151 (-121.53, -1.09)	-53.38 (-126.79, 19.57)	-40.73 (-124.10, 42.03)	31.83 (-80.66, 136.29)	-16.64 (-85.48, 52.41)	Zinc

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Amlexanox, Laser, Placebo, Triamcinolone	-1.00 (-44.82, 37.53)
Amlexanox, Placebo, Triamcinolone	5.22 (-40.96, 72.30)
Amlexanox, Placebo, Triamcinolone	5.22 (-40.96, 72.30)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	25.89 (15.63, 48.04)
Inconsistency Standard Deviation	22.79 (0.64, 71.08)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.00	
d.Amlexanox.Dexamethasone	1.00	
d.Amlexanox.Triamcinolone	1.00	
d.Chlorhexidine.Sucralfate	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Insulinliposomalgel	1.00	
d.Placebo.Probiotics	1.00	
d.Placebo.Silvernitrate	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Laser	1.00	
w.Amlexanox.Placebo.Laser.Tria...	1.00	
w.Amlexanox.Placebo.Triamcinol...	1.00	
w.Amlexanox.Placebo.Triamcinol...	1.00	
sd.d	1.00	
sd.w	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

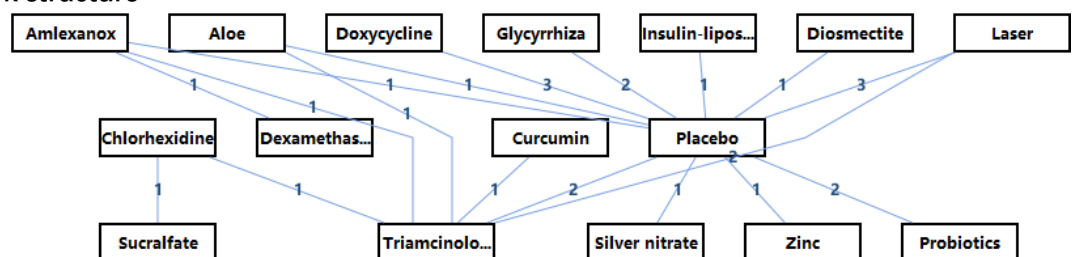
Inference samples : 10,000

Variance scaling factor: 2.5

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Amlexanox, Placebo	-5.71 (-70.72, 60.86)	-5.20 (-79.45, 69.55)	-4.96 (-50.43, 37.96)	1
Amlexanox, Triamcinolone	37.74 (-28.49, 101.58)	37.23 (-37.02, 111.53)	37.42 (-6.48, 82.40)	0.99
Laser, Placebo	-59.48 (-100.64, -19.03)	-63.88 (-128.46, -1.40)	-61.05 (-92.61, -29.60)	0.9
Laser, Triamcinolone	-20.04 (-66.88, 27.58)	-15.76 (-73.03, 42.86)	-18.51 (-50.02, 15.44)	0.9
Placebo, Triamcinolone	43.93 (-1.45, 90.98)	40.57 (-9.38, 91.52)	42.65 (12.28, 74.68)	0.93

4. Network structure



Day 4

1. Consistency Model

1.1 Summary estimates

Allison	-21.91 (-64.39, 21.05)	2.67 (-33.50, 38.84)	-11.32 (-56.24, 33.22)	-0.63 (-46.97, 45.48)	-13.03 (-55.68, 39.89)	5.56 (-45.85, 56.64)	-3.44 (-46.21, 41.16)	-4.90 (-50.44, 42.18)	8.71 (-27.46, 45.95)	-29.43 (-77.43, 18.97)
21.91 (-21.05, 64.39)	Aloe	24.59 (-6.92, 57.22)	10.56 (-28.69, 50.20)	21.07 (-21.44, 63.86)	8.96 (-39.61, 59.14)	27.57 (-18.55, 75.49)	18.70 (-18.25, 55.75)	17.55 (-26.59, 61.14)	30.93 (-2.94, 63.19)	-7.57 (-51.79, 37.65)
-2.67 (-38.84, 33.50)	-24.59 (-57.22, 6.92)	Antiseptox	-14.13 (-47.84, 19.93)	-3.69 (-38.63, 32.46)	-15.71 (-58.36, 28.48)	3.08 (-40.60, 47.36)	-6.14 (-39.10, 27.24)	-7.31 (-43.76, 29.78)	6.05 (-17.93, 31.09)	-32.45 (-70.10, 6.20)
11.32 (-33.22, 56.24)	-10.56 (-50.20, 28.69)	14.13 (-19.93, 47.84)	Benzodrine	10.62 (-32.91, 55.13)	-1.23 (-52.67, 49.07)	16.69 (-29.84, 66.66)	7.83 (-30.63, 47.06)	6.66 (-38.05, 51.60)	20.15 (-11.58, 51.53)	-18.19 (-64.25, 28.09)
0.63 (-45.48, 46.97)	-21.07 (-63.86, 21.44)	3.69 (-32.46, 38.63)	-10.62 (-55.13, 32.91)	Berthone gplatin	-11.99 (-62.17, 40.30)	6.45 (-46.37, 60.05)	-2.83 (-45.20, 40.91)	-3.74 (-50.45, 41.33)	9.85 (-28.21, 46.99)	-28.66 (-76.29, 18.62)
13.03 (-39.89, 65.68)	-8.96 (-59.14, 39.61)	15.71 (-28.48, 58.36)	1.23 (-49.07, 52.67)	11.99 (-40.30, 62.17)	Chicoan	18.69 (-38.67, 77.00)	9.33 (-40.60, 59.29)	8.39 (-44.65, 60.76)	21.78 (-24.08, 67.12)	-16.83 (-71.68, 36.52)
-5.56 (-58.64, 45.85)	-27.57 (-75.49, 18.55)	-3.08 (-47.36, 40.60)	-16.89 (-66.66, 29.84)	-6.45 (-60.05, 46.37)	-18.69 (-77.00, 38.67)	Chlotheadine	-9.34 (-55.05, 35.30)	-9.80 (-64.85, 41.30)	3.23 (-42.28, 46.57)	-34.92 (-89.92, 17.73)
3.44 (-41.16, 46.21)	-18.70 (-55.75, 18.25)	6.14 (-27.24, 39.10)	-7.83 (-47.06, 30.63)	2.83 (-40.91, 45.20)	-9.33 (-59.29, 40.60)	9.34 (-35.30, 55.05)	Curcumin	-0.78 (-46.11, 42.12)	12.42 (-21.04, 44.95)	-25.85 (-72.22, 18.54)
4.90 (-42.18, 50.44)	-17.55 (-61.14, 26.59)	7.31 (-29.78, 43.76)	-6.66 (-51.60, 38.05)	3.74 (-41.33, 50.45)	-8.39 (-60.76, 44.65)	9.80 (-41.30, 64.85)	0.78 (-42.12, 46.11)	Dioxydicte	13.28 (-25.37, 51.55)	-25.08 (-73.70, 22.82)
-8.71 (-45.95, 27.46)	-30.93 (-63.19, 2.94)	-6.05 (-31.09, 17.93)	-20.15 (-51.53, 11.58)	-9.85 (-46.99, 28.21)	-21.78 (-67.12, 24.08)	-3.23 (-46.57, 42.28)	-12.42 (-44.95, 21.04)	-13.28 (-51.55, 25.37)	Dioxydicte	-38.74 (-77.82, 1.67)
29.43 (-18.97, 77.43)	7.57 (-37.65, 51.79)	32.45 (-6.20, 70.10)	18.19 (-28.09, 64.25)	28.66 (-18.62, 76.29)	16.83 (-36.52, 71.68)	34.92 (-17.73, 89.32)	25.95 (-18.54, 72.22)	25.08 (-22.82, 73.70)	38.74 (-1.67, 77.82)	Cyrtophus
-13.09 (-60.69, 34.52)	-35.23 (-80.14, 10.16)	-10.84 (-47.51, 27.20)	-24.47 (-70.01, 20.60)	-13.90 (-59.56, 32.08)	-26.05 (-78.39, 27.00)	-7.75 (-60.59, 46.08)	-16.96 (-61.16, 27.38)	-17.87 (-65.52, 30.10)	-4.34 (-43.37, 34.69)	-42.86 (-90.94, 6.70)
-40.64 (-77.33, -3.55)	-63.17 (-94.25, -30.52)	-38.30 (-62.16, -14.39)	-52.51 (-86.33, -18.71)	-41.65 (-78.72, -4.50)	-54.09 (-97.44, -8.87)	-35.02 (-77.87, 8.95)	-44.31 (-76.15, -12.45)	-45.42 (-83.03, -7.56)	-32.03 (-58.17, -6.34)	-70.48 (-109.65, -32.13)
-21.33 (-85.93, 43.61)	-43.12 (-106.37, 18.38)	-18.46 (-78.02, 40.84)	-32.40 (-94.97, 29.36)	-22.25 (-88.47, 43.28)	-33.82 (-105.18, 35.68)	-15.39 (-55.18, 24.86)	-24.59 (-64.86, 34.91)	-25.25 (-92.68, 39.69)	-12.17 (-72.83, 46.50)	-50.78 (-117.62, 15.63)
22.84 (-9.96, 55.31)	0.89 (-27.33, 28.22)	25.47 (9.44, 41.54)	11.22 (-18.37, 41.40)	21.88 (-99.2, 54.54)	9.82 (-30.90, 50.48)	28.64 (-12.32, 70.15)	19.33 (-9.52, 48.42)	18.29 (-15.43, 50.91)	31.78 (12.33, 50.54)	-6.94 (-41.97, 27.14)
-6.72 (-66.09, 51.72)	-29.06 (-84.58, 25.10)	-4.29 (-56.05, 46.44)	-18.32 (-56.56, 19.80)	-8.00 (-66.79, 50.64)	-20.19 (-84.19, 44.82)	-1.17 (-63.71, 61.25)	-10.46 (-64.44, 43.95)	-11.62 (-70.12, 46.43)	1.73 (-47.93, 51.10)	-36.57 (-95.38, 22.15)
4.93 (-32.43, 40.86)	-17.32 (-46.41, 10.77)	7.51 (-16.21, 30.10)	-6.55 (-36.73, 23.99)	4.02 (-32.53, 40.47)	-8.29 (-51.93, 36.21)	10.72 (-26.37, 48.76)	15.41 (-22.95, 25.03)	0.35 (-37.15, 36.55)	13.66 (-9.54, 36.56)	-24.70 (-63.31, 13.07)
1.41 (-41.86, 44.83)	-20.40 (-59.58, 17.43)	4.51 (-29.26, 37.01)	-9.59 (-50.08, 30.69)	0.85 (-41.75, 43.37)	-11.10 (-60.17, 38.39)	7.40 (-39.51, 55.54)	-1.93 (-39.32, 36.16)	-2.98 (-47.52, 40.75)	10.51 (-23.78, 43.37)	-28.10 (-72.01, 17.05)
-41.74 (-89.11, 5.29)	-63.52 (-107.61, -19.79)	-39.01 (-76.71, -1.31)	-53.08 (-98.66, -8.12)	-42.57 (-88.81, 4.15)	-55.15 (-106.93, -0.50)	-36.14 (-88.05, 17.05)	-45.14 (-90.19, -0.19)	-46.43 (-94.18, 1.77)	-32.88 (-72.49, 5.56)	-71.57 (-119.24, -21.15)

13.09 (-34.52, 60.69)	40.64 (3.55, 77.33)	21.33 (-43.61, 86.93)	-22.84 (-55.31, 9.96)	6.72 (-51.72, 66.09)	-4.93 (-40.86, 32.43)	-1.41 (-44.83, 41.86)	41.74 (-5.29, 89.11)
35.23 (-101.6, 80.14)	63.17 (30.52, 94.25)	43.12 (-18.38, 106.37)	-0.89 (-28.22, 27.33)	29.06 (-25.10, 94.58)	17.32 (-10.77, 46.41)	20.40 (-17.43, 59.58)	63.52 (9.79, 107.61)
10.84 (-27.20, 47.51)	38.30 (14.39, 62.16)	18.46 (-40.84, 78.02)	-25.47 (-41.54, -9.44)	4.29 (-46.44, 56.05)	-7.51 (-30.10, 16.21)	-4.51 (-37.01, 29.26)	39.01 (1.31, 76.71)
24.47 (-20.60, 70.01)	52.51 (18.71, 86.33)	32.40 (-29.36, 94.97)	-11.22 (-41.40, 18.37)	18.32 (-19.80, 56.56)	6.55 (-23.90, 36.73)	9.59 (-30.69, 50.08)	53.08 (6.12, 98.66)
13.90 (-32.08, 59.56)	41.65 (4.50, 78.72)	22.25 (-43.28, 88.47)	-21.88 (-54.54, 9.92)	8.00 (-50.64, 66.79)	-4.02 (-40.47, 32.53)	-0.85 (-43.97, 41.75)	42.57 (-4.15, 89.81)
26.05 (-27.00, 78.39)	54.09 (8.87, 97.44)	33.82 (-35.68, 105.18)	-9.82 (-50.48, 30.90)	20.19 (-44.82, 84.19)	8.29 (-36.21, 51.93)	11.10 (-38.39, 60.17)	55.15 (0.50, 106.93)
7.75 (-46.08, 60.59)	35.02 (-8.95, 77.87)	15.39 (-24.86, 55.18)	-28.64 (-70.15, 12.32)	11.17 (-61.25, 63.71)	-10.72 (-48.76, 26.37)	-7.40 (-55.54, 39.51)	36.14 (-17.05, 89.05)
16.96 (-27.38, 61.16)	44.31 (12.45, 76.15)	24.59 (-34.91, 84.86)	-19.33 (-48.42, 9.52)	10.46 (-43.95, 64.44)	-1.54 (-25.03, 22.95)	1.93 (-36.16, 39.32)	45.14 (0.19, 90.19)
17.87 (-30.10, 65.52)	45.42 (7.56, 83.03)	25.25 (-39.69, 92.68)	-18.29 (-50.91, 15.43)	11.62 (-46.43, 70.12)	-0.35 (-36.55, 37.15)	2.98 (-40.75, 47.52)	46.43 (-1.77, 94.18)
4.34 (-34.69, 43.37)	32.03 (6.34, 58.17)	12.17 (-46.50, 72.83)	-31.78 (-50.54, -12.33)	-1.73 (-51.10, 47.93)	-13.66 (-36.56, 9.54)	-10.51 (-43.37, 23.78)	32.89 (-5.56, 72.49)
42.86 (-6.70, 90.94)	70.48 (32.13, 109.65)	50.78 (-15.63, 117.62)	6.94 (-27.14, 41.97)	36.57 (-22.15, 95.38)	24.70 (-13.07, 63.31)	28.10 (-17.05, 72.01)	71.57 (21.15, 119.24)
Insulin-liposomal gel	27.69 (-10.27, 65.70)	8.00 (-58.30, 74.17)	-36.15 (-69.20, -1.47)	-6.09 (-65.20, 53.38)	-18.17 (-54.54, 20.47)	-14.82 (-58.67, 30.10)	28.81 (-19.86, 75.89)
-27.69 (-65.70, 10.27)	Laser	-19.85 (-78.34, 38.84)	-63.68 (-81.37, -45.97)	-33.93 (-84.04, 17.12)	-45.82 (-66.42, -24.87)	-42.67 (-74.78, -10.63)	112 (-37.79, 39.08)
-8.00 (-74.17, 58.30)	19.85 (-38.84, 78.34)	N-acetylcysteine	-43.60 (-101.04, 13.45)	-14.16 (-88.53, 58.87)	-26.28 (-81.03, 28.45)	-22.65 (-83.93, 38.51)	20.43 (-46.14, 85.44)
36.15 (1.47, 69.20)	63.68 (45.97, 81.37)	43.60 (-13.45, 101.04)	Placebo	29.69 (-18.27, 77.88)	17.85 (-8.0, 34.39)	21.04 (-7.20, 49.83)	64.55 (8.62, 98.58)
6.09 (-53.38, 65.20)	33.93 (-17.12, 84.04)	14.16 (-58.87, 88.53)	-29.69 (-77.88, 18.27)	Quercetin	-11.67 (-60.27, 37.36)	-8.73 (-64.65, 46.73)	34.87 (-25.26, 94.47)
18.17 (-20.47, 54.54)	45.82 (24.87, 66.42)	26.28 (-28.45, 81.03)	-17.85 (-34.39, -1.80)	11.67 (-37.36, 60.27)	Tiannofolone	3.11 (-25.44, 31.10)	46.71 (8.08, 83.72)
14.82 (-30.10, 58.67)	42.67 (10.63, 74.78)	22.65 (-38.51, 83.93)	-21.04 (-49.83, 7.20)	8.73 (-46.73, 64.65)	-3.11 (-31.10, 25.44)	Theater Glycyrrh Oxide	43.35 (-1.15, 87.07)
-28.81 (-75.89, 19.86)	-1.12 (-39.08, 37.79)	-20.43 (-85.44, 46.14)	-64.55 (-98.58, -30.82)	-34.87 (-94.47, 25.26)	-46.71 (-83.72, -8.08)	-43.35 (-87.07, 1.15)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17	Rank 18	Rank 19
Allicin	0	0.01	0.04	0.06	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.03	0.03	0.02
Aloe	0	0	0	0	0	0	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.08	0.1	0.13	0.15	0.19	0.17
Amlexanox	0	0	0.01	0.03	0.07	0.1	0.12	0.13	0.13	0.12	0.09	0.07	0.05	0.04	0.02	0.01	0	0	0
Benzylamine	0	0	0	0.01	0.02	0.02	0.03	0.05	0.05	0.06	0.06	0.08	0.09	0.11	0.11	0.1	0.09	0.08	0.05
Berberine gelatin	0	0.01	0.03	0.05	0.06	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.03	0.03	0.02
Chitosan	0	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.07	0.08	0.08	0.08	0.11	0.14
Chlorhexidine	0.01	0.03	0.06	0.12	0.11	0.09	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.03	0.01
Curcumin	0	0	0.02	0.03	0.04	0.06	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.07	0.05	0.03	0.02	0.02
Diosmectite	0	0.01	0.02	0.04	0.05	0.06	0.06	0.07	0.07	0.06	0.07	0.07	0.07	0.08	0.08	0.06	0.05	0.05	0.03
Doxycycline	0	0.01	0.04	0.1	0.15	0.16	0.14	0.11	0.09	0.07	0.05	0.03	0.02	0.01	0.01	0	0	0	0
Glycyrrhiza	0	0	0	0	0	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.06	0.07	0.1	0.17	0.42
Insulin-liposomal	0.02	0.05	0.14	0.15	0.13	0.09	0.08	0.07	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0

Laser	0.32	0.42	0.17	0.06	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
N-acetylcysteine	0.16	0.12	0.16	0.11	0.07	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Placebo	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0.05	0.12	0.22	0.31	0.22	0.06
Quercetin	0.04	0.06	0.1	0.1	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
Triamcinolone	0	0	0	0	0.01	0.01	0.03	0.05	0.09	0.13	0.16	0.17	0.15	0.1	0.06	0.02	0.01	0	0
TGO	0	0.01	0.02	0.04	0.05	0.07	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.07	0.06	0.04	0.02	0.02	0.01
Zinc	0.42	0.27	0.15	0.07	0.04	0.02	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	14.34 (9.10, 25.48)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Benzylamine.Quercetin	1.00	
d.Chlorhexidine.NacetylcySteine	1.00	
d.Placebo.Allicin	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Insulinliposomalgel	1.15	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Aloe	1.00	
d.Triamcinolone.Benzylamine	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Doxycycline	1.00	
d.Triamcinolone.Laser	1.00	
d.Triamcinolone.Placebo	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
sd.d	1.00	
		Number of chains : 4
		Tuning iterations : 20,000
		Simulation iterations : 50,000
		Thinning interval : 10
		Inference samples : 10,000
		Variance scaling factor: 2.5

2.Inconsistency Model

2.1 Summary estimates

Allien	-18.78 (-65.21, 26.69)	2.95 (-35.40, 40.16)	-9.16 (-55.76, 37.33)
18.78 (-2669, 65.21)	Aloe	21.25 (-13.20, 56.35)	9.63 (-32.58, 50.71)
-2.95 (-40.16, 35.40)	-21.25 (-56.35, 13.20)	Amlexanox	-12.14 (-48.43, 24.38)
9.16 (-37.33, 55.76)	-9.63 (-50.71, 32.58)	12.14 (-24.38, 48.43)	Benzylamine
0.72 (-45.93, 46.71)	-17.81 (-62.99, 26.57)	3.43 (-33.40, 40.18)	-8.38 (-55.11, 36.65)
12.57 (-40.65, 66.41)	-6.27 (-56.75, 45.40)	15.15 (-28.18, 59.58)	3.27 (-47.76, 53.80)
-6.41 (-59.41, 49.52)	-25.15 (-72.45, 24.04)	-3.65 (-48.92, 42.11)	-15.48 (-66.16, 36.37)
2.58 (-44.47, 48.98)	-16.31 (-55.22, 22.78)	5.21 (-30.24, 40.89)	-6.89 (-47.79, 34.27)
4.17 (-44.26, 52.80)	-14.53 (-60.83, 30.65)	6.92 (-32.08, 44.26)	-4.88 (-52.04, 40.44)
-9.62 (-48.04, 30.78)	-28.20 (-62.59, 6.77)	-6.78 (-32.30, 19.09)	-18.73 (-51.87, 13.62)
29.41 (-203.4, 79.17)	10.89 (-35.88, 57.07)	32.22 (-6.22, 71.81)	20.64 (-28.03, 66.86)
-14.46 (-61.62, 34.91)	-32.99 (-79.02, 12.30)	-11.71 (-49.03, 25.86)	-23.57 (-69.96, 23.00)
-41.57 (-84.60, 1.83)	-60.40 (-97.69, -21.30)	-38.86 (-70.17, -7.41)	-50.45 (-90.57, -10.36)
-22.16 (-89.02, 45.73)	-40.71 (-103.56, 21.16)	-19.54 (-81.09, 40.52)	-31.75 (-95.96, 33.91)
22.76 (-116.8, 57.37)	3.97 (-26.84, 34.22)	25.46 (6.72, 41.99)	13.61 (-18.83, 45.00)
-9.27 (-69.85, 51.86)	-27.72 (-85.93, 30.32)	-6.05 (-61.02, 46.51)	-18.36 (-57.79, 20.98)
3.83 (-35.14, 42.71)	-16.90 (-68.65, 38.60)	6.73 (-17.68, 30.91)	-5.08 (-38.03, 26.89)
-1.72 (-47.34, 43.93)	-20.49 (-59.97, 20.08)	1.09 (-33.65, 35.95)	-10.72 (-53.09, 31.13)
-41.38 (-91.44, 7.63)	-60.14 (-107.37, -14.12)	-38.66 (-79.13, -0.21)	-50.72 (-98.04, -3.96)

-0.72 (-.48.71, 45.93)	-12.57 (-.66.41, 40.65)	6.41 (-.49.52, 59.41)	-2.58 (-.48.98, 44.47)	-4.17 (-.52.80, 44.26)	9.62 (-.30.78, 48.04)	-29.41 (-.79.17, 20.34)	14.46 (-.34.91, 61.62)	41.57 (-1.83, 84.60)	22.16 (-.45.73, 89.02)	-22.76 (-.57.37, 11.68)	9.27 (-.51.86, 69.85)	-3.83 (-.42.71, 35.14)
17.81 (-.26.57, 62.99)	6.27 (-.45.40, 56.75)	25.15 (-.24.04, 72.45)	16.31 (-.22.78, 55.22)	14.53 (-.30.65, 60.83)	28.20 (-.6.77, 62.59)	-10.89 (-.57.07, 35.88)	32.99 (-12.30, 79.02)	60.40 (21.30, 97.69)	40.71 (-.21.16, 103.56)	-3.97 (-.34.22, 26.84)	27.72 (-.30.32, 85.93)	16.90 (-.38.60, 68.65)
-3.43 (-.40.18, 33.40)	-15.15 (-.59.58, 28.18)	3.65 (-.42.11, 48.92)	-5.21 (-.40.89, 30.24)	-6.92 (-.44.26, 32.08)	6.78 (-19.09, 32.30)	-32.22 (-.71.81, 6.22)	11.71 (-.25.86, 49.03)	38.86 (7.41, 70.17)	19.54 (-.40.52, 81.09)	-25.46 (-.41.99, -8.72)	6.05 (-.46.51, 61.02)	-6.73 (-.30.91, 17.68)
8.38 (-.36.65, 55.11)	-3.27 (-.53.80, 47.76)	15.48 (-.36.37, 66.16)	6.88 (-.34.27, 47.79)	4.88 (-.40.44, 52.04)	18.73 (-13.62, 51.87)	-20.64 (-.68.86, 28.03)	23.57 (-.23.00, 69.96)	50.45 (10.36, 90.57)	31.75 (-.33.91, 95.96)	-13.61 (-.45.00, 18.83)	18.36 (-.20.98, 57.79)	5.08 (-.26.88, 38.03)
Berberine gelatin	-11.66 (-.64.28, 40.48)	7.23 (-.46.80, 60.00)	-1.59 (-.47.52, 43.14)	-3.38 (-.50.05, 43.86)	10.51 (-.28.47, 47.58)	-28.68 (-.77.02, 19.66)	15.53 (-.32.13, 61.06)	42.20 (0.57, 84.64)	22.84 (-.44.08, 90.71)	-21.86 (-.54.39, 10.44)	9.79 (-.49.71, 70.99)	-3.33 (-.39.97, 33.91)
11.66 (-.40.48, 64.28)	Chitosan	18.89 (-41.23, 77.45)	10.19 (-.40.76, 60.18)	8.33 (-.44.28, 60.85)	22.13 (-.22.08, 66.53)	-17.10 (-.71.74, 36.68)	26.88 (-.24.02, 80.19)	53.90 (5.59, 101.93)	34.71 (-.37.43, 107.40)	-10.21 (-.49.40, 31.04)	21.59 (-43.26, 86.73)	8.52 (-.35.55, 52.63)
-7.23 (-.60.00, 46.80)	Chitosan	Chitosan	-8.88 (-.54.63, 38.01)	-10.63 (-.63.88, 44.87)	2.79 (-41.72, 49.92)	-35.77 (-.90.50, 19.83)	7.90 (-.45.58, 62.18)	35.20 (-12.10, 81.24)	15.95 (-.24.72, 56.45)	-29.33 (-.70.81, 13.95)	2.72 (-.60.08, 66.99)	-10.21 (-47.88, 29.56)
1.59 (-.43.14, 47.52)	-10.19 (-.60.18, 40.76)	8.88 (-.38.01, 54.69)	Curcumin	-2.06 (-.47.03, 44.56)	12.03 (-.23.28, 46.83)	-27.23 (-.74.62, 20.50)	16.92 (-.28.25, 62.71)	43.77 (8.58, 80.13)	24.88 (-.36.31, 86.79)	-20.30 (-.50.81, 11.29)	11.52 (-45.11, 67.67)	-1.67 (-.26.54, 23.57)
3.38 (-.43.86, 50.05)	-8.33 (-.60.85, 44.28)	10.63 (-44.87, 63.88)	2.06 (-44.56, 47.03)	Diosgenin	13.86 (-.26.32, 52.45)	-25.40 (-.74.10, 22.90)	18.84 (-.29.95, 65.12)	45.54 (2.93, 88.33)	26.81 (-.41.49, 92.99)	-18.46 (-.52.80, 15.38)	13.39 (-47.39, 72.76)	0.30 (-.38.71, 38.67)
-10.51 (-47.58, 28.47)	-22.13 (-.66.53, 22.08)	-2.79 (-49.92, 41.72)	-12.03 (-46.63, 23.28)	13.86 (-.26.32, 52.45)	Diosgenin	-39.18 (-.78.49, 1.16)	5.00 (-.34.35, 44.31)	31.88 (0.43, 64.11)	12.83 (-.47.43, 74.05)	-32.39 (-.51.35, -12.47)	-0.29 (-50.48, 50.52)	-13.51 (-37.09, 11.36)
28.68 (-.19.66, 77.02)	17.10 (-.36.88, 71.74)	35.77 (-19.83, 90.50)	27.23 (-.20.50, 74.82)	25.40 (-.22.90, 74.10)	39.18 (-1.16, 78.49)	Glycyrrhiza	43.66 (-4.16, 91.84)	70.96 (27.05, 115.51)	51.63 (-17.37, 120.45)	6.74 (-.27.23, 41.96)	38.63 (-.22.05, 100.18)	25.62 (-12.61, 65.95)
-15.53 (-.61.06, 32.13)	-26.88 (-.80.19, 24.02)	-7.90 (-.62.18, 45.58)	-16.92 (-.62.71, 28.25)	-18.84 (-.65.12, 29.95)	-5.00 (-.44.31, 34.35)	-43.66 (-.91.84, 4.16)	Insulin-hicosemal gel	26.77 (-15.79, 70.98)	7.66 (-.59.79, 75.48)	-37.40 (-.70.22, -3.12)	-5.15 (-.65.78, 56.75)	-18.52 (-.56.32, 20.38)
-42.20 (-.84.64, -0.57)	-53.90 (-.101.93, -5.59)	-35.20 (-.81.24, 12.10)	-43.77 (-.80.13, -8.58)	-45.54 (-.88.33, -2.93)	-31.88 (-.64.11, -0.43)	-70.96 (-115.51, -27.05)	-26.77 (-.70.98, 15.79)	Liver	-19.17 (-.80.25, 42.48)	-63.64 (-.82.60, -44.84)	-32.53 (-.87.20, 23.80)	-45.42 (-71.49, -18.92)
-22.84 (-.90.71, 44.08)	-34.71 (-.107.40, 37.43)	-15.85 (-.56.45, 24.72)	-24.88 (-.66.79, 38.31)	-26.81 (-.92.99, 41.49)	-12.83 (-.74.05, 47.43)	-51.63 (-120.45, 17.37)	-7.66 (-75.48, 59.79)	19.17 (-42.48, 80.25)	N-acetylcholine	-45.10 (-102.97, 13.82)	-13.57 (-89.02, 62.07)	-26.19 (-83.00, 29.52)
21.86 (-10.44, 54.39)	10.21 (-.31.04, 49.40)	29.33 (-13.95, 70.81)	20.30 (-11.29, 50.81)	18.46 (-15.38, 52.80)	32.29 (12.47, 51.35)	-6.74 (-41.96, 27.23)	37.40 (3.12, 70.22)	63.64 (44.84, 82.60)	45.10 (-13.82, 102.97)	Pinebello	31.66 (-18.93, 82.55)	16.82 (-31.92, 67.53)
-9.79 (-.70.99, 49.71)	-21.59 (-.86.73, 43.26)	-2.72 (-.66.99, 60.08)	-11.52 (-.67.67, 45.11)	-13.39 (-.72.76, 47.39)	0.29 (-.50.52, 50.48)	-38.63 (-100.18, 22.05)	5.15 (-.56.75, 65.78)	32.53 (-.23.80, 87.20)	13.57 (-.62.07, 89.02)	-31.66 (-.82.55, 18.93)	Quercetin	-13.02 (-.64.04, 38.10)
3.33 (-.33.91, 39.97)	-8.52 (-.52.63, 35.55)	10.21 (-.29.56, 47.88)	1.67 (-.23.57, 26.54)	-0.30 (-.38.67, 38.71)	13.51 (-11.36, 37.09)	-25.62 (-.65.95, 12.61)	18.52 (-.20.28, 56.32)	45.42 (18.92, 71.49)	26.19 (-.29.52, 83.00)	-16.82 (-.67.53, 31.92)	13.02 (-.38.10, 64.04)	Tranexamine
-2.38 (-.47.34, 41.74)	-14.19 (-.65.58, 37.09)	4.91 (-.44.46, 52.11)	-3.92 (-.43.52, 35.22)	-5.88 (-.51.82, 39.28)	8.02 (-.26.74, 41.63)	-31.18 (-.78.29, 15.15)	12.79 (-.32.48, 57.74)	39.84 (2.68, 77.59)	20.86 (-.43.28, 85.22)	-22.01 (-.78.08, 29.99)	7.40 (-.49.63, 64.43)	-5.64 (-.35.54, 24.66)
-42.50 (-.89.36, 4.75)	-54.03 (-108.12, -0.53)	-35.16 (-.91.24, 19.08)	-43.84 (-.91.67, 2.50)	-45.95 (-.95.58, 2.58)	-31.78 (-73.13, 7.35)	-71.11 (-120.78, -20.91)	-26.94 (-.76.39, 20.48)	-0.01 (-.44.06, 43.51)	-19.29 (-.87.32, 49.67)	-64.24 (-.99.51, -29.05)	-32.09 (-.94.98, 29.22)	-45.39 (-.84.43, -6.61)

1.72 (-43.93, 47.34)	41.38 (-7.63, 91.44)
20.49 (-20.08, 59.97)	60.14 (14.12, 107.37)
-1.09 (-35.95, 33.65)	38.66 (0.21, 79.13)
10.72 (-31.13, 53.09)	50.72 (3.96, 98.04)
2.38 (-41.74, 47.34)	42.50 (-4.75, 89.36)
14.19 (-37.09, 65.59)	54.03 (0.53, 108.12)
-4.91 (-52.11, 44.46)	35.16 (-19.08, 91.24)
3.92 (-35.22, 43.52)	43.84 (-2.50, 91.67)
5.88 (-39.28, 51.82)	45.55 (-2.58, 95.58)
-8.02 (-41.63, 26.74)	31.78 (-7.35, 73.13)
31.18 (-15.15, 78.29)	71.11 (20.91, 120.78)
-12.79 (-57.74, 32.48)	26.94 (-20.48, 76.39)
-39.84 (-77.59, -2.68)	0.01 (-43.51, 44.06)
-20.86 (-85.22, 43.28)	19.29 (-49.67, 87.32)
22.01 (-29.99, 78.08)	64.24 (29.05, 99.51)
-7.40 (-64.43, 49.63)	32.09 (-29.22, 94.98)
5.64 (-24.86, 35.54)	45.39 (6.61, 84.43)
Triester Glycerol Oxide	40.24 (-6.34, 85.81)
-40.24 (-85.81, 6.34)	Zinc

2.3 Variance Calculation

Cycle	Median (95% CI)
Doxycycline, Laser, Placebo, Triamcinolone	-0.11 (-28.97, 26.24)
Doxycycline, Placebo, Triamcinolone	-1.01 (-48.44, 46.21)
Doxycycline, Placebo, Triamcinolone	-1.01 (-48.44, 46.21)
Doxycycline, Placebo, Triamcinolone	-1.01 (-48.44, 46.21)

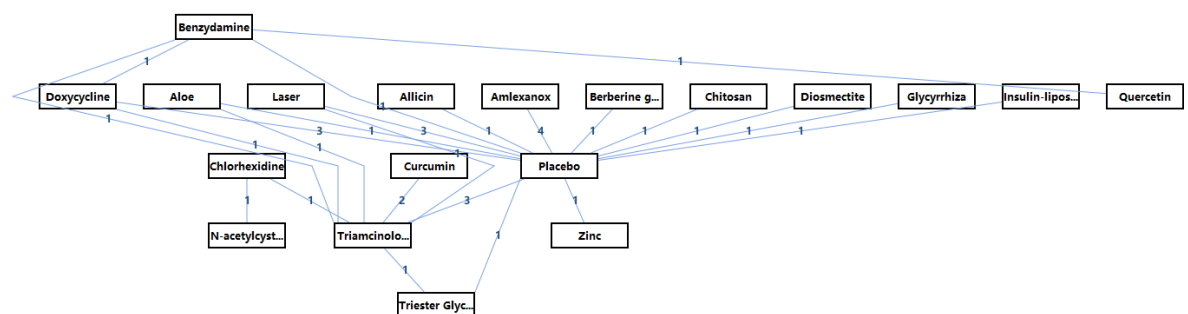
2.4 Convergence Diagnostics

Parameter	PSRF	
d.Benzydamine.Quercetin	1.00	
d.Chlorhexidine.Nacetylcysteine	1.00	
d.Placebo.Allicin	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Glycyrrhiza	1.00	
d.Placebo.Insulinliposomalgel	1.15	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Aloe	1.00	
d.Triamcinolone.Benzydamine	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.Doxycycline	1.00	
d.Triamcinolone.Laser	1.00	
d.Triamcinolone.Placebo	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
sd.d	1.00	
		Number of chains : 4
		Tuning iterations : 20,000
		Simulation iterations : 50,000
		Thinning interval : 10
		Inference samples : 10,000
		Variance scaling factor: 2.5

3. Node-splitting analysis

Parameter	Median (95% CI)
Random Effects Standard Deviation	14.66 (8.97, 26.74)
Inconsistency Standard Deviation	11.28 (0.65, 69.10)

4. Network structure



Day 5

1. Consistency Model

1.1 Summary estimates

Alice	8.86 (-34.03, 54.31)	40.15 (-21.48, 103.51)	33.83 (-21.19, 89.33)	16.53 (-48.51, 82.12)	0.65 (-59.35, 59.48)	6.78 (-45.80, 57.36)	5.35 (-41.26, 51.94)	31.93 (-23.22, 87.73)	-14.62 (-55.44, 26.91)	-7.62 (-58.41, 44.39)	312.9 (-8.86, 72.31)	37.71 (-22.07, 100.28)
-8.86 (-54.31, 34.03)	Anthracene	30.70 (-26.60, 90.64)	24.78 (-25.34, 73.95)	7.64 (-40.60, 56.12)	-8.22 (-59.91, 42.20)	-2.21 (-44.11, 38.08)	-3.32 (-35.40, 27.19)	23.19 (-19.68, 64.48)	-23.48 (-50.39, 2.53)	-15.94 (-57.61, 24.04)	22.39 (-11.79, 55.08)	29.32 (-22.30, 81.54)
-40.15 (-103.51, 21.48)	Chlorhexidine	-6.54 (-69.60, 52.82)	-23.66 (-99.03, 50.89)	-39.41 (-115.39, 31.93)	-33.64 (-102.48, 32.39)	-34.69 (-98.69, 25.04)	-8.20 (-78.63, 60.39)	-54.53 (-115.42, 1.51)	-47.45 (-114.95, 17.31)	-8.55 (-57.85, 38.29)	-2.52 (-76.59, 71.65)	
-33.83 (-89.33, 21.19)	-24.78 (-73.95, 25.34)	6.54 (-52.82, 69.60)	Curcumin	-17.33 (-85.54, 51.75)	-33.07 (-98.34, 33.88)	-26.98 (-85.87, 31.60)	-28.54 (-81.91, 25.78)	-1.63 (-64.20, 60.28)	-48.26 (-97.21, 3.09)	-40.99 (-99.36, 18.63)	-2.32 (-39.13, 34.99)	4.60 (-62.42, 72.38)
-16.53 (-82.12, 48.51)	-7.64 (-56.12, 40.60)	23.66 (-50.89, 99.03)	17.33 (-51.75, 85.54)	Dexamethasone	-15.66 (-86.31, 53.23)	-9.65 (-76.10, 52.55)	-10.62 (-69.76, 45.65)	15.85 (-50.92, 78.16)	-30.66 (-86.97, 22.81)	-23.97 (-87.52, 39.27)	15.06 (-42.91, 72.14)	21.50 (-51.36, 93.60)
-0.65 (-59.48, 59.35)	8.22 (-42.26, 59.91)	39.41 (-31.93, 115.39)	33.07 (-33.88, 98.34)	15.66 (-53.23, 86.31)	Dioemetic	5.93 (-48.04, 59.81)	4.94 (-44.54, 54.21)	31.68 (-29.95, 90.27)	-15.01 (-59.17, 28.45)	-7.90 (-61.36, 46.38)	30.67 (-23.00, 86.79)	37.54 (-25.09, 101.16)
-6.78 (-57.36, 45.80)	2.21 (-38.08, 44.11)	33.64 (-32.39, 102.48)	26.98 (-31.60, 85.87)	9.65 (-52.55, 76.10)	-5.93 (-59.91, 48.04)	Dicyclics	-1.01 (-40.02, 37.66)	25.19 (-23.74, 76.13)	-21.07 (-52.64, 10.92)	-13.80 (-58.49, 31.97)	24.90 (-20.66, 71.09)	31.58 (-21.76, 86.47)
-5.35 (-51.84, 41.26)	3.32 (-27.19, 35.40)	34.69 (-25.04, 98.69)	28.54 (-25.78, 81.91)	10.62 (-45.65, 69.76)	-4.94 (-54.21, 44.54)	Glycyrrhiza	26.88 (-14.92, 67.45)	-20.08 (-41.31, 2.53)	-12.65 (-51.28, 25.92)	25.77 (-12.07, 64.73)	32.65 (-16.17, 83.59)	
-31.93 (-87.73, 23.22)	-23.19 (-64.48, 19.68)	8.20 (-60.39, 78.63)	1.63 (-60.28, 64.20)	-15.85 (-76.16, 50.92)	-31.68 (-90.27, 29.95)	-25.19 (-76.13, 23.74)	-26.88 (-67.45, 14.92)	Laser	-46.59 (-85.72, -6.63)	-39.21 (-89.55, 12.84)	-0.36 (-49.94, 49.34)	5.92 (-53.31, 67.63)
14.62 (-26.91, 55.44)	23.48 (-2.53, 50.39)	54.53 (-1.51, 115.42)	48.26 (-3.09, 97.21)	30.66 (-22.81, 86.97)	15.01 (-28.45, 59.17)	21.07 (-10.92, 52.64)	20.08 (-2.53, 41.31)	46.59 (-6.63, 85.72)	Placeto	7.18 (-24.35, 38.85)	45.80 (12.78, 79.09)	52.81 (9.11, 98.47)
7.62 (-44.39, 58.41)	15.94 (-24.04, 57.81)	47.45 (-17.31, 114.95)	40.99 (-18.63, 99.36)	23.97 (-39.27, 87.52)	7.90 (-46.38, 61.36)	13.80 (-31.97, 59.49)	12.65 (-25.92, 51.28)	39.21 (-12.84, 89.55)	-7.18 (-38.85, 24.35)	Pichonics	38.73 (-6.15, 84.22)	45.70 (-9.48, 99.63)
-31.29 (-72.31, 8.86)	-22.39 (-55.08, 11.79)	8.55 (-38.29, 57.85)	2.32 (-34.99, 39.13)	-15.06 (-72.14, 42.91)	-30.67 (-86.79, 23.00)	-24.90 (-71.09, 20.66)	-25.77 (-64.73, 12.07)	0.36 (-49.34, 49.94)	-45.80 (-79.09, -12.78)	-38.73 (-94.22, 6.15)	Therapeutic	6.61 (-48.82, 63.15)
-37.71 (-100.28, 22.07)	-29.32 (-81.54, 22.30)	2.52 (-71.65, 76.59)	-4.60 (-72.38, 62.42)	-21.50 (-93.60, 51.36)	-37.54 (-101.16, 25.09)	-31.58 (-86.47, 21.76)	-32.65 (-83.53, 16.17)	-5.92 (-67.63, 53.31)	-52.81 (-98.47, -9.11)	-45.70 (-99.63, 9.48)	-6.61 (-63.15, 48.82)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13
Aloe	0	0.01	0.02	0.03	0.05	0.08	0.09	0.1	0.12	0.13	0.13	0.11	0.14
Amlexanox	0	0	0.01	0.03	0.07	0.13	0.2	0.2	0.16	0.11	0.06	0.02	0.01
Chlorhexidine	0.31	0.18	0.13	0.1	0.07	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01
Curcumin	0.16	0.19	0.16	0.13	0.11	0.08	0.05	0.04	0.03	0.02	0.02	0.01	0.01
Dexamethasone	0.07	0.08	0.08	0.08	0.1	0.11	0.09	0.08	0.07	0.06	0.06	0.05	0.07
Diosmectite	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.12	0.11	0.15
Doxycycline	0.01	0.02	0.03	0.05	0.07	0.11	0.12	0.13	0.13	0.13	0.1	0.06	0.04
Glycyrrhiza	0	0	0.01	0.03	0.05	0.09	0.14	0.17	0.19	0.17	0.1	0.04	0.01
Laser	0.14	0.18	0.14	0.14	0.14	0.09	0.06	0.04	0.03	0.02	0.01	0.01	0
Placebo	0	0	0	0	0	0	0	0.01	0.02	0.07	0.2	0.37	0.34
Probiotics	0	0	0.01	0.01	0.02	0.04	0.05	0.07	0.09	0.13	0.17	0.19	0.21
Triamcinolone	0.03	0.13	0.25	0.24	0.18	0.08	0.04	0.02	0.01	0.01	0	0	0
Zinc	0.27	0.18	0.13	0.11	0.1	0.07	0.05	0.03	0.02	0.02	0.01	0.01	0.01

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	18.93 (11.29, 37.41)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Amlexanox.Dexamethasone	1.00	<div>Number of chains : 4</div> <div>Tuning iterations : 20,000</div> <div>Simulation iterations : 50,000</div> <div>Thinning interval : 10</div> <div>Inference samples : 10,000</div> <div>Variance scaling factor: 2.5</div>
d.Placebo.Aloe	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Glycyrrhiza	1.01	
d.Placebo.Laser	1.00	
d.Placebo.Probiotics	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
sd.d	1.00	

2.Inconsistency Model

2.1 Summary estimates

Aloe	-2.13 (-53.22, 53.94)	36.70 (-26.63, 103.43)
2.13 (-53.94, 53.22)	Amlexanox	39.07 (-24.02, 99.89)
-36.70 (-103.43, 26.63)	-39.07 (-99.89, 24.02)	Chlorhexidine
-29.95 (-89.24, 25.51)	-31.87 (-83.62, 23.28)	7.30 (-54.10, 68.97)
-5.49 (-82.50, 64.65)	-7.98 (-55.72, 40.00)	31.58 (-48.75, 106.07)
-4.61 (-64.36, 60.71)	-6.19 (-65.21, 59.06)	32.95 (-40.04, 111.49)
-10.05 (-61.46, 45.43)	-11.29 (-63.57, 43.59)	26.59 (-40.02, 99.42)
-10.37 (-55.15, 40.47)	0.25 (-35.80, 37.60)	26.86 (-34.44, 95.64)
-19.27 (-86.67, 44.52)	-21.38 (-83.26, 22.80)	18.04 (-55.32, 90.10)
10.85 (-29.96, 55.36)	20.38 (-37.20, 70.85)	48.25 (-10.69, 112.01)
4.00 (-48.26, 59.07)	2.61 (-49.78, 57.98)	41.24 (-26.46, 112.04)
-27.94 (-74.25, 14.52)	-30.21 (-67.81, 8.74)	9.32 (-39.56, 56.63)
-41.82 (-102.81, 20.11)	-43.30 (-105.33, 20.96)	-4.43 (-81.27, 73.48)

29.95 (-25.51, 89.24)	5.49 (-64.65, 82.50)	4.61 (-60.71, 64.36)	10.05 (-45.43, 61.46)	10.37 (-40.47, 55.15)	19.27 (-44.52, 86.67)	-10.85 (-55.36, 29.96)	-4.00 (-59.07, 48.26)	27.94 (-14.52, 74.25)	41.82 (-20.11, 102.81)
31.87 (-23.28, 83.62)	7.96 (-40.00, 55.72)	6.19 (-59.06, 65.21)	11.29 (-43.59, 63.57)	-0.25 (-37.60, 35.80)	21.38 (-22.80, 63.26)	-20.38 (-70.85, 37.20)	-2.61 (-57.98, 49.78)	30.21 (-8.74, 67.81)	43.30 (-20.96, 105.33)
-7.30 (-88.97, 54.10)	-31.58 (-108.07, 48.75)	-32.95 (-111.49, 40.04)	-26.59 (-99.42, 40.02)	-26.86 (-95.64, 34.44)	-18.04 (-90.10, 55.32)	-48.25 (-112.01, 10.69)	-41.24 (-112.04, 28.46)	-9.32 (-56.63, 39.56)	4.43 (-73.48, 81.27)
Curcumin	-24.36 (-94.70, 49.58)	-25.14 (-97.05, 40.50)	-19.49 (-84.31, 39.15)	-19.91 (-78.89, 34.00)	-10.75 (-75.68, 56.73)	-40.72 (-96.72, 10.25)	-33.89 (-98.24, 25.81)	-1.57 (-38.69, 35.21)	11.88 (-59.52, 80.21)
24.36 (-49.58, 94.70)	Decamethasone	-1.95 (-85.80, 73.73)	3.95 (-73.53, 73.58)	3.84 (-65.84, 67.97)	13.51 (-52.28, 75.90)	-17.17 (-86.10, 45.65)	-9.77 (-85.99, 59.48)	22.60 (-40.71, 82.25)	36.17 (-47.11, 112.12)
25.14 (-40.50, 97.05)	Dexamethasone	5.77 (-49.67, 62.07)	5.56 (-46.14, 56.84)	15.23 (-54.82, 88.27)	-15.68 (-60.10, 30.20)	-8.23 (-63.55, 48.60)	-13.97 (-58.97, 31.71)	23.72 (-32.06, 86.88)	37.40 (-27.23, 103.36)
19.49 (-39.15, 84.31)	-3.95 (-73.58, 73.53)	-5.77 (-62.07, 49.67)	Doxycycline	0.23 (-42.68, 40.31)	9.89 (-53.96, 74.72)	-21.09 (-53.81, 10.84)	-13.97 (-58.97, 31.71)	18.04 (-29.01, 71.84)	31.55 (-24.44, 88.99)
19.91 (-34.00, 78.89)	-3.84 (-67.97, 65.84)	-5.56 (-56.84, 46.14)	-0.23 (-40.31, 42.88)	Glycyrrhiza	21.85 (-22.79, 64.44)	-21.34 (-45.65, 4.02)	-13.93 (-55.00, 27.11)	18.08 (-21.20, 63.73)	31.48 (-21.04, 86.36)
10.75 (-56.73, 75.68)	-13.51 (-75.90, 52.28)	-15.23 (-88.27, 54.82)	-9.89 (-74.72, 53.96)	-21.85 (-64.44, 22.79)	Laser	-41.82 (-98.70, 25.67)	-24.30 (-89.28, 41.17)	8.97 (-44.02, 63.20)	21.85 (-50.03, 92.80)
40.72 (-10.25, 96.72)	17.17 (-45.65, 86.10)	15.68 (-30.20, 60.10)	21.09 (-10.84, 53.81)	21.34 (-4.02, 45.65)	41.82 (-25.67, 98.70)	Placebo	7.21 (-24.85, 39.58)	39.41 (32.8, 80.37)	52.66 (8.03, 99.50)
33.69 (-25.81, 98.24)	9.77 (-59.48, 85.99)	8.23 (-48.60, 63.55)	13.97 (-31.71, 58.97)	13.93 (-27.11, 55.00)	24.30 (-41.17, 89.28)	-7.21 (-39.58, 24.85)	Probiotics	32.17 (-15.07, 84.84)	45.68 (-11.20, 102.41)
1.57 (-35.21, 38.69)	-22.60 (-82.25, 40.71)	-23.72 (-86.88, 32.06)	-18.04 (-71.84, 29.01)	-18.08 (-63.73, 21.20)	-8.97 (-63.20, 44.02)	-39.41 (-80.37, -3.28)	-32.17 (-84.84, 15.07)	Triamcinolone	13.72 (-48.70, 70.60)
-11.88 (-80.21, 59.52)	-36.17 (-112.12, 47.11)	-37.40 (-103.36, 27.23)	-31.55 (-88.99, 24.44)	-31.48 (-86.56, 21.04)	-21.85 (-92.80, 50.03)	-52.66 (-99.50, -8.03)	-45.68 (-102.41, 11.20)	-13.72 (-70.60, 48.70)	Zinc

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Amlexanox, Glycyrrhiza, Placebo, Triamcinolone	-6.32 (-61.36, 25.69)
Amlexanox, Placebo, Triamcinolone	-4.90 (-66.70, 35.23)
Amlexanox, Placebo, Triamcinolone	-4.90 (-66.70, 35.23)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	18.78 (10.27, 39.91)
Inconsistency Standard Deviation	22.19 (0.97, 58.63)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.00	
d.Amlexanox.Dexamethasone	1.00	
d.Amlexanox.Laser	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Glycyrrhiza	1.01	
d.Placebo.Probiotics	1.00	
d.Placebo.Triamcinolone	1.00	
d.Placebo.Zinc	1.00	
d.Triamcinolone.Amlexanox	1.00	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
w.Amlexanox.Glycyrrhiza.Placebo...	1.00	
w.Amlexanox.Placebo.Triamcinol...	1.00	
w.Amlexanox.Placebo.Triamcinol...	1.00	
sd.d	1.01	
sd.w	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

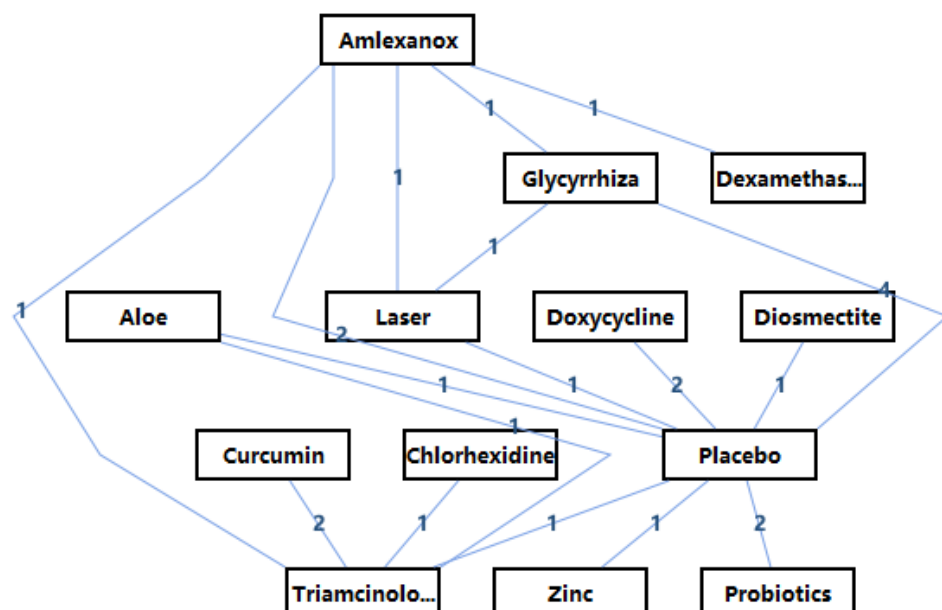
Inference samples : 10,000

Variance scaling factor: 2.5

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Amlexanox, Glycyrrhiza	-15.42 (-69.31, 33.74)	-2.94 (-48.68, 41.88)	-3.32 (-35.40, 27.19)	0.67
Amlexanox, Placebo	-33.20 (-68.93, -0.68)	-14.02 (-57.49, 29.16)	-23.48 (-50.39, 2.53)	0.41
Amlexanox, Triamcinolone	42.12 (2.87, 82.51)	-6.95 (-57.71, 41.05)	22.39 (-11.79, 55.08)	0.1
Placebo, Triamcinolone	26.83 (-14.03, 66.31)	76.67 (29.75, 125.97)	45.80 (12.78, 79.09)	0.1

4. Network structure



Day 6

1. Consistency Model

1.1 Summary estimates

Allison	-15.58 (-93.18, 61.40)	8.41 (-66.14, 81.71)	-8.29 (-96.30, 80.70)	-14.51 (-106.44, 77.58)	4.75 (-91.21, 103.46)	10.21 (-86.53, 109.21)	-10.46 (-100.81, 79.82)	-6.46 (-98.92, 81.03)	-13.27 (-90.17, 65.60)	27.12 (-64.78, 115.94)
	Alise	24.03 (-34.90, 78.37)	7.28 (-69.27, 82.73)	1.60 (-79.51, 78.74)	20.66 (-61.48, 103.64)	25.66 (-53.05, 105.99)	4.74 (-72.51, 80.50)	8.84 (-69.61, 84.87)	2.61 (-60.65, 63.29)	42.21 (-36.21, 120.26)
-8.41 (-81.71, 66.14)	-24.03 (-78.37, 34.90)	Amixanone	-16.38 (-89.11, 56.13)	-23.24 (-88.40, 54.31)	-3.40 (-85.77, 81.70)	1.64 (-77.22, 85.69)	-19.23 (-90.68, 54.33)	-15.14 (-87.83, 56.75)	-21.30 (-78.45, 37.75)	18.53 (-54.93, 91.28)
8.29 (-80.70, 96.30)	-7.28 (-82.73, 69.27)	16.38 (-56.13, 89.11)	Berberine Gellan	-6.80 (-97.61, 86.22)	12.74 (-81.43, 111.82)	18.40 (-75.37, 113.49)	-2.51 (-90.75, 87.60)	1.21 (-86.13, 90.11)	-4.89 (-79.65, 73.32)	35.27 (-53.42, 124.28)
14.51 (-77.58, 106.44)	-1.60 (-78.74, 79.51)	23.24 (-54.31, 98.40)	6.80 (-86.22, 97.61)	Chitosan	19.40 (-77.48, 119.93)	25.30 (-73.34, 122.65)	3.83 (-87.99, 96.18)	8.07 (-86.29, 99.80)	2.13 (-77.93, 82.40)	40.79 (-49.35, 133.70)
-4.75 (-103.46, 91.21)	-20.66 (-103.64, 61.48)	3.40 (-81.70, 85.77)	-12.74 (-111.82, 81.43)	-19.40 (-119.93, 77.48)	Cholexydine	5.55 (-86.71, 94.49)	-15.87 (-113.41, 80.81)	-10.96 (-109.31, 84.04)	-18.10 (-107.72, 68.36)	22.00 (-80.99, 118.36)
-10.21 (-109.21, 86.53)	-25.66 (-105.99, 53.05)	-1.64 (-85.69, 77.22)	-18.40 (-113.49, 75.37)	-25.30 (-122.65, 73.34)	-5.55 (-94.49, 86.71)	Circumlin	-21.46 (-119.23, 75.18)	-17.18 (-114.44, 78.34)	-22.70 (-109.22, 61.74)	16.78 (-83.06, 112.80)
10.46 (-79.82, 100.81)	-4.74 (-80.50, 72.51)	19.23 (-54.33, 90.68)	2.51 (-87.60, 90.75)	-3.83 (-96.18, 87.99)	15.87 (-80.81, 113.41)	21.46 (-75.18, 119.23)	Dexamethasone	4.31 (-87.54, 91.84)	-1.93 (-78.82, 76.31)	37.66 (-52.21, 126.29)
6.46 (-81.03, 98.92)	-8.84 (-84.87, 69.61)	15.14 (-56.75, 87.83)	-1.21 (-90.11, 86.13)	-8.07 (-99.80, 86.29)	10.96 (-84.04, 109.31)	17.18 (-78.34, 114.44)	-4.31 (-91.84, 87.54)	Diosmetin	-6.40 (-84.60, 71.14)	33.90 (-55.81, 124.48)
13.27 (-65.60, 90.17)	-2.61 (-63.29, 60.65)	21.30 (-37.75, 78.45)	4.89 (-73.32, 79.65)	-2.13 (-82.40, 77.93)	18.10 (-68.36, 107.72)	22.70 (-61.74, 109.22)	1.93 (-76.31, 79.82)	6.40 (-71.14, 84.60)	Doxycycline	39.81 (-40.48, 116.70)
-27.12 (-115.94, 64.78)	-42.21 (-120.26, 36.21)	-18.53 (-91.28, 54.93)	-35.27 (-124.28, 53.42)	-40.79 (-133.70, 49.35)	-22.00 (-118.36, 80.99)	-16.78 (-112.80, 83.06)	-37.66 (-126.29, 52.21)	-33.90 (-124.48, 55.81)	-39.81 (-116.70, 40.48)	Heath's liposomal gel
-35.60 (-132.39, 61.32)	-51.62 (-134.64, 35.77)	-28.00 (-107.42, 54.12)	-44.06 (-139.04, 51.53)	-50.21 (-146.46, 47.82)	-31.12 (-131.89, 72.43)	-25.29 (-126.48, 77.54)	-46.33 (-143.35, 48.23)	-43.05 (-137.10, 54.32)	-48.46 (-133.45, 36.68)	-8.96 (-103.55, 87.15)
-14.08 (-132.61, 104.84)	-30.00 (-134.03, 75.84)	-5.66 (-113.05, 100.00)	-22.22 (-141.78, 96.81)	-28.62 (-146.50, 91.85)	-8.61 (-73.78, 59.27)	-3.66 (-114.73, 108.86)	-24.53 (-143.77, 99.83)	-20.45 (-139.96, 96.71)	-26.56 (-134.95, 83.91)	12.97 (-107.16, 132.41)
23.71 (-40.14, 87.24)	8.17 (-34.62, 52.18)	32.31 (-5.64, 67.60)	15.60 (-47.75, 78.00)	9.14 (-57.49, 74.02)	28.75 (-44.93, 104.56)	33.85 (-37.82, 107.48)	12.92 (-50.08, 75.18)	17.41 (-46.89, 81.44)	11.34 (-33.04, 55.41)	50.76 (-13.42, 114.19)
-0.87 (-76.85, 72.28)	-16.41 (-65.70, 32.38)	7.55 (-46.15, 56.10)	-9.07 (-83.63, 60.35)	-15.20 (-92.40, 59.29)	4.32 (-61.10, 70.10)	9.29 (-55.34, 72.46)	-11.95 (-86.16, 61.60)	-7.40 (-81.85, 64.47)	-13.87 (-73.35, 42.34)	25.94 (-49.24, 98.32)
1.72 (-89.56, 96.47)	-14.31 (-82.89, 54.41)	9.83 (-58.52, 78.28)	-6.73 (-94.71, 75.92)	-13.08 (-101.58, 73.17)	6.09 (-80.50, 91.48)	11.71 (-74.17, 97.63)	-8.94 (-95.91, 75.52)	-5.51 (-91.16, 79.79)	-11.48 (-85.88, 61.88)	28.02 (-59.38, 112.80)
-15.54 (-107.60, 74.92)	-31.28 (-108.12, 48.65)	-7.07 (-82.47, 68.66)	-24.22 (-111.61, 65.79)	-30.42 (-123.04, 63.84)	-10.76 (-106.82, 92.51)	-5.67 (-103.32, 95.25)	-26.39 (-118.61, 65.73)	-21.79 (-116.15, 67.91)	-28.87 (-107.49, 50.82)	11.23 (-79.45, 101.12)

35.60 (-61.32, 132.39)	14.08 (-104.84, 132.61)	-23.71 (-87.24, 40.14)	0.87 (-72.28, 76.85)	-1.72 (-86.47, 88.56)	15.54 (-74.92, 107.60)
51.62 (-35.77, 134.64)	30.00 (-75.84, 134.03)	-8.17 (-52.18, 34.62)	16.41 (-32.38, 65.70)	14.31 (-54.41, 82.89)	31.28 (-48.65, 108.12)
28.00 (-54.12, 107.42)	5.66 (-100.00, 113.05)	-32.31 (-67.60, 5.64)	-7.55 (-58.10, 46.15)	-9.83 (-78.28, 58.52)	7.07 (-68.66, 82.47)
44.06 (-51.53, 139.04)	22.22 (-96.81, 141.78)	-15.60 (-78.00, 47.75)	9.07 (-60.35, 88.63)	6.73 (-75.92, 94.71)	24.22 (-65.79, 111.61)
50.21 (-47.82, 146.46)	28.62 (-91.85, 146.50)	-9.14 (-74.02, 57.49)	15.20 (-59.29, 92.40)	13.08 (-73.17, 101.58)	30.42 (-63.84, 123.04)
31.12 (-72.43, 131.69)	8.61 (-59.27, 73.78)	-28.75 (-104.56, 44.93)	-4.32 (-70.10, 61.10)	-6.09 (-91.48, 80.50)	10.76 (-92.51, 106.82)
25.29 (-77.54, 126.48)	3.65 (-108.86, 114.73)	-33.85 (-107.48, 37.62)	-9.29 (-72.46, 55.34)	-11.71 (-97.63, 74.17)	5.67 (-95.25, 103.32)
46.33 (-48.23, 143.35)	24.53 (-93.83, 143.77)	-12.92 (-75.18, 50.08)	11.95 (-61.60, 86.16)	8.94 (-75.52, 95.91)	26.39 (-65.73, 118.61)
43.05 (-54.32, 137.10)	20.45 (-96.71, 139.96)	-17.41 (-81.44, 46.89)	7.40 (-64.47, 81.85)	5.51 (-79.79, 91.16)	21.79 (-67.91, 116.15)
48.46 (-36.68, 133.45)	26.56 (-83.91, 134.95)	-11.34 (-55.41, 33.04)	13.87 (-42.34, 73.35)	11.48 (-61.08, 85.88)	28.87 (-50.82, 107.49)
8.96 (-87.15, 103.55)	-12.97 (-132.41, 107.16)	-50.76 (-114.19, 13.42)	-25.94 (-98.32, 49.24)	-28.02 (-112.80, 59.38)	-11.23 (-101.12, 79.45)
Laser	-21.94 (-146.26, 102.10)	-59.65 (-130.10, 12.85)	-35.02 (-113.22, 48.18)	-36.93 (-127.00, 55.47)	-21.08 (-115.42, 72.78)
21.94 (-102.10, 146.26)	N-acetylcysteine	-38.07 (-138.00, 62.75)	-12.81 (-105.96, 80.60)	-15.72 (-123.50, 95.09)	2.18 (-118.18, 119.62)
59.65 (-12.85, 130.10)	Placebo	24.71 (-11.06, 61.67)	22.40 (-34.44, 80.55)	-2.35 (-58.83, 55.39)	39.68 (-26.60, 104.99)
35.02 (-48.18, 113.22)	12.81 (-80.60, 105.96)	-24.71 (-61.67, 11.06)	Triamcinolone	-2.35 (-58.83, 55.39)	14.76 (-62.20, 87.93)
36.93 (-55.47, 127.00)	15.72 (-95.09, 123.50)	-22.40 (-80.55, 34.44)	2.35 (-55.39, 58.83)	Triester Glycerol Oxide	17.27 (-72.68, 101.91)
21.08 (-72.78, 115.42)	-2.18 (-119.62, 118.18)	-39.68 (-104.99, 26.60)	-14.76 (-67.93, 62.20)	-17.27 (-101.91, 72.68)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17
Allicin	0.03	0.05	0.06	0.06	0.07	0.07	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.06	0.06
Aloe	0	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.1	0.1	0.1	0.1	0.1	0.08
Amlexanox	0.01	0.04	0.07	0.1	0.12	0.11	0.11	0.1	0.08	0.08	0.06	0.05	0.03	0.02	0.01	0.01	0
Berberine gelatin	0.02	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.1
Chitosan	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.1	0.17
Chlorhexidine	0.03	0.08	0.09	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.05	0.06	0.04
Curcumin	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.04	0.03	0.04
Dexamethasone	0.02	0.03	0.04	0.05	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.09	0.12
Diosmectite	0.02	0.03	0.04	0.05	0.05	0.06	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.08	0.09
Doxycycline	0	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.08	0.09	0.09	0.1	0.09	0.09	0.08	0.07
Insulin-liposomal gel	0.17	0.18	0.13	0.1	0.08	0.06	0.05	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01
Laser	0.32	0.15	0.11	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
N-acetylcysteine	0.16	0.11	0.09	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.05	0.08
Placebo	0	0	0	0	0	0	0	0.01	0.01	0.03	0.06	0.1	0.15	0.21	0.22	0.16	0.05
Triamcinolone	0	0.01	0.02	0.04	0.07	0.1	0.12	0.13	0.13	0.12	0.1	0.07	0.05	0.03	0.02	0.01	0
Triester Glycerol Oxide	0.02	0.04	0.05	0.06	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.04
Zinc	0.09	0.12	0.12	0.1	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.02

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	26.71 (14.77, 55.74)

1.4 Convergence Diagnostics

Parameter	PSRF
d.Chlorhexidine.Nacetylcysteine	1.00
d.Placebo.Allicin	1.00
d.Placebo.Amlexanox	1.00
d.Placebo.Berberinegelatin	1.00
d.Placebo.Chitosan	1.00
d.Placebo.Dexamethasone	1.00
d.Placebo.Diosmectite	1.00
d.Placebo.Doxycycline	1.00
d.Placebo.Insulinliposomalgel	1.03
d.Placebo.Laser	1.34
d.Placebo.Zinc	1.09
d.Triamcinolone.Aloe	1.00
d.Triamcinolone.Chlorhexidine	1.00
d.Triamcinolone.Curcumin	1.03
d.Triamcinolone.Placebo	1.00
d.Triamcinolone.TriesterGlycerol...	1.00
sd.d	1.00

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

Inference samples : 10,000

Variance scaling factor: 2.5

2.Inconsistency Model

2.1 Summary estimates

Allison	14.08 (-67.04, 95.32)	Alice	23.47 (-37.86, 80.91)	6.21 (-74.61, 87.21)	-0.01 (-81.43, 83.30)	18.99 (-68.93, 109.86)	18.02 (-70.72, 104.76)
	-8.69 (-83.56, 68.34)	-23.47 (-80.91, 37.86)	Antennox	16.88 (-64.40, 99.25)	Bethanne Opium	-23.08 (-99.07, 55.12)	-3.22 (-96.55, 90.17)
	7.54 (-85.71, 103.78)	-6.21 (-87.21, 74.61)		6.66 (-91.42, 103.75)	Chesnan	-6.66 (-133.75, 91.42)	13.07 (-94.55, 124.66)
	14.29 (-76.80, 107.91)	0.01 (-83.30, 81.41)	23.08 (-55.12, 99.07)			19.50 (-96.09, 128.51)	17.20 (-92.31, 123.71)
	-4.96 (-112.38, 101.91)	-18.99 (-109.86, 68.93)	3.22 (-90.17, 96.55)	-13.07 (-124.66, 94.65)	-19.50 (-128.51, 86.09)	Cherendine	-2.42 (-97.53, 93.75)
	-2.87 (-108.30, 99.44)	-18.02 (-104.76, 70.72)	5.48 (-86.51, 95.56)	-10.82 (-117.50, 96.06)	-17.20 (-123.71, 92.31)		Curcumin
	11.22 (-82.66, 105.09)	-3.75 (-81.34, 79.15)	19.00 (-55.56, 97.55)	3.20 (-87.85, 95.53)	-3.32 (-97.43, 92.10)	15.49 (-88.72, 126.38)	14.50 (-92.08, 121.24)
	6.45 (-85.19, 100.02)	-7.22 (-89.25, 74.27)	15.61 (-60.47, 90.16)	-1.52 (-93.98, 92.41)	-8.16 (-101.35, 89.24)	11.40 (-95.64, 120.35)	10.09 (-96.08, 115.71)
	12.83 (-68.71, 95.83)	-1.77 (-67.00, 66.52)	21.26 (-40.45, 83.25)	4.33 (-75.25, 86.51)	-1.39 (-84.46, 82.82)	17.67 (-79.02, 116.32)	16.05 (-79.57, 116.06)
	-25.86 (-117.48, 69.58)	-39.59 (-119.66, 42.47)	-17.10 (-92.71, 62.09)	-33.77 (-123.69, 63.61)	-39.79 (-136.03, 56.08)	-20.63 (-125.50, 88.72)	-22.26 (-126.80, 85.81)
-28.13 (-122.94, 67.79)	-42.77 (-124.77, 43.57)	-19.77 (-96.31, 59.43)	-36.73 (-130.11, 61.32)	-42.71 (-138.23, 55.65)	-23.50 (-130.94, 87.75)	-24.91 (-130.06, 83.63)	
-13.98 (-142.04, 112.43)	-28.80 (-139.63, 84.96)	-6.13 (-119.00, 111.24)	-22.88 (-149.38, 106.65)	-28.94 (-156.27, 103.68)	-9.57 (-78.01, 58.26)	-11.94 (-131.88, 111.76)	
23.59 (-41.52, 88.34)	9.39 (-36.64, 56.49)	32.39 (-5.70, 70.03)	15.82 (-50.88, 81.70)	9.30 (-59.04, 78.27)	28.74 (-56.58, 115.21)	26.96 (-57.76, 111.75)	
-1.45 (-84.65, 79.32)	-15.89 (-73.04, 41.06)	7.20 (-55.62, 67.98)	-9.17 (-93.38, 71.45)	-16.02 (-99.76, 68.50)	3.28 (-64.23, 72.01)	1.39 (-64.84, 66.58)	
0.50 (-96.59, 100.30)	-13.52 (-88.83, 68.01)	9.00 (-71.46, 33.91)	-7.18 (-105.74, 91.09)	-14.15 (-112.35, 91.12)	5.52 (-84.75, 98.34)	3.34 (-65.76, 96.31)	
-7.58 (-100.25, 85.88)	-21.89 (-99.98, 59.46)	1.20 (-74.05, 79.02)	-14.60 (-111.62, 76.55)	-21.64 (-117.49, 75.82)	-2.37 (-111.47, 106.56)	-4.30 (-108.49, 102.70)	

-11.22 (-105.09, 82.66)	-6.45 (-100.02, 85.19)	-12.63 (-95.93, 69.71)	25.86 (-69.58, 117.48)	28.13 (-67.79, 122.94)	13.98 (-112.43, 142.04)	-23.56 (-88.34, 41.52)	1.45 (-79.32, 84.65)	-0.50 (-100.90, 96.59)	7.58 (-85.88, 100.25)
3.75 (-79.15, 81.34)	7.22 (-74.27, 89.25)	1.77 (-66.52, 67.00)	39.59 (-42.47, 119.66)	42.77 (-43.57, 124.77)	28.80 (-84.96, 139.63)	-9.39 (-56.49, 36.64)	15.89 (-41.06, 73.04)	13.52 (-68.01, 89.83)	21.89 (-59.46, 94.98)
-19.00 (-97.55, 55.56)	-15.61 (-90.16, 60.47)	-21.26 (-83.25, 40.45)	17.10 (-62.09, 92.71)	19.77 (-59.43, 96.31)	6.13 (-111.24, 119.00)	-32.39 (-70.03, 5.70)	-7.20 (-67.98, 55.62)	-9.00 (-93.91, 71.46)	-12.14 (-79.02, 44.73)
-3.20 (-95.53, 87.85)	1.52 (-92.41, 93.98)	-4.33 (-86.51, 75.25)	33.77 (-63.61, 123.69)	36.73 (-61.32, 130.11)	22.88 (-106.85, 149.38)	-15.82 (-81.70, 50.68)	9.17 (-71.45, 93.38)	7.18 (-91.09, 105.74)	14.64 (-55.15, 117.82)
3.32 (-92.10, 97.43)	8.16 (-89.24, 101.35)	1.39 (-82.92, 84.46)	39.79 (-56.08, 136.03)	42.71 (-55.65, 138.23)	28.94 (-103.68, 156.27)	-9.30 (-78.27, 59.04)	16.02 (-68.50, 99.76)	14.15 (-91.12, 112.35)	21.64 (-87.58, 149.49)
-15.49 (-126.38, 88.72)	-11.40 (-120.35, 95.64)	-17.67 (-116.32, 79.02)	20.63 (-88.72, 125.50)	23.50 (-87.75, 130.94)	9.57 (-58.26, 78.01)	-28.74 (-115.21, 56.58)	-3.28 (-72.01, 64.23)	-5.52 (-98.34, 84.75)	2.37 (-14.55, 114.47)
-14.50 (-121.24, 92.08)	-10.09 (-115.71, 96.08)	-16.05 (-116.06, 79.37)	22.26 (-85.81, 126.80)	24.91 (-83.63, 130.06)	11.94 (-117.76, 131.88)	-26.96 (-111.75, 57.76)	-1.39 (-66.58, 64.84)	-3.34 (-96.31, 85.78)	4.30 (-45.77, 105.48)
Dexamethasone	4.42 (-88.79, 98.54)	-1.59 (-83.62, 80.04)	35.87 (-58.22, 129.90)	39.48 (-57.54, 134.78)	25.67 (-101.89, 154.11)	-12.94 (-78.31, 54.69)	12.55 (-67.61, 95.57)	10.18 (-89.79, 108.52)	18.34 (-76.68, 111.40)
-4.42 (-98.54, 88.79)	Doenectate	-6.38 (-86.45, 73.82)	32.13 (-61.34, 124.16)	35.22 (-58.85, 127.94)	21.20 (-107.55, 151.85)	-16.84 (-83.71, 49.34)	8.52 (-72.55, 91.40)	5.95 (-93.56, 103.76)	14.27 (-81.64, 106.77)
1.59 (-80.04, 83.62)	6.38 (-73.82, 86.45)	Doxycycline	38.57 (-43.96, 118.96)	40.71 (-41.87, 124.88)	27.63 (-95.51, 145.26)	-10.85 (-57.93, 37.99)	14.19 (-54.04, 83.71)	12.19 (-76.43, 98.78)	20.44 (-60.22, 140.90)
-35.87 (-129.90, 58.22)	-32.13 (-124.16, 61.34)	-38.57 (-118.96, 43.96)	Insulin-hexosamol gel	2.71 (-91.47, 95.97)	-11.88 (-141.55, 117.83)	-49.20 (-114.29, 19.44)	-23.92 (-105.62, 61.19)	-26.40 (-124.73, 73.36)	34.86 (-11.32, 67.82)
-39.48 (-134.78, 57.54)	-35.22 (-127.94, 58.85)	-40.71 (-124.88, 41.87)	-2.71 (-95.97, 91.47)	Doenectate	-13.51 (-143.80, 115.83)	-52.02 (-117.86, 17.43)	-26.63 (-109.11, 58.73)	-28.94 (-127.95, 72.96)	20.17 (-112.66, 51.60)
-25.67 (-154.11, 101.89)	-21.20 (-151.85, 107.55)	-27.63 (-145.26, 95.51)	11.88 (-117.83, 141.55)	13.51 (-115.83, 148.80)	N-acetylcysteine	-38.46 (-145.73, 71.89)	-12.89 (-109.08, 85.78)	-15.65 (-130.59, 101.52)	27.17 (-134.71, 229.19)
12.94 (-54.69, 78.31)	16.84 (-49.34, 83.71)	10.86 (-37.99, 57.93)	49.20 (-19.44, 114.29)	52.02 (-17.43, 117.86)	38.46 (-71.88, 145.73)	Placebo	24.18 (-38.05, 86.74)	21.75 (-57.98, 101.60)	25.54 (-35.42, 135.32)
-12.55 (-95.57, 67.61)	-8.52 (-91.40, 72.55)	-14.19 (-83.71, 54.04)	23.92 (-61.19, 105.62)	26.63 (-58.73, 109.11)	12.89 (-85.78, 109.08)	-24.18 (-86.74, 38.05)	Transdermal	-1.68 (-66.71, 57.89)	54.74 (-75.89, 185.37)
-10.18 (-108.52, 89.79)	-5.95 (-103.76, 93.56)	-12.19 (-98.78, 76.43)	26.40 (-73.36, 124.73)	28.94 (-72.96, 127.95)	15.65 (-101.52, 130.59)	-21.75 (-101.60, 57.98)	1.68 (-57.89, 66.71)	Therapeutic Glyceral Oxide	57.14 (-90.99, 106.48)
-18.39 (-111.54, 75.08)	-14.27 (-106.77, 81.64)	-20.42 (-102.60, 60.22)	18.38 (-76.78, 111.32)	21.17 (-75.16, 112.61)	7.72 (-122.39, 134.12)	-31.52 (-97.32, 35.42)	-5.64 (-85.22, 75.69)	-8.37 (-106.09, 90.99)	22.14 (-94.54, 148.82)

2.2 Inconsistency Factors

Cyclo	Median (95% CI)	
Aloe, Placebo, Triamcinolone	-0.38 (-58.99, 54.34)	
Aloe, Placebo, Triamcinolone	-0.38 (-58.99, 54.34)	

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	28.06 (15.11, 58.19)
Inconsistency Standard Deviation	24.41 (1.30, 64.80)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Allicin.Placebo	1.00	
d.Aloe.Triamcinolone	1.00	
d.Chlorhexidine.Nacetylcysteine	1.00	
d.Placebo.Aloe	1.00	
d.Placebo.Amlexanox	1.00	
d.Placebo.Berberinegelatin	1.00	
d.Placebo.Chitosan	1.00	
d.Placebo.Dexamethasone	1.00	
d.Placebo.Diosmectite	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Insulinliposomalgel	1.00	
d.Placebo.Laser	1.00	
d.Placebo.Zinc	1.01	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
d.Triamcinolone.TriesterGlycerol...	1.00	
w.Aloe.Placebo.Triamcinolone	1.00	
w.Aloe.Placebo.Triamcinolone	1.00	
sd.d	1.00	
sd.w	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

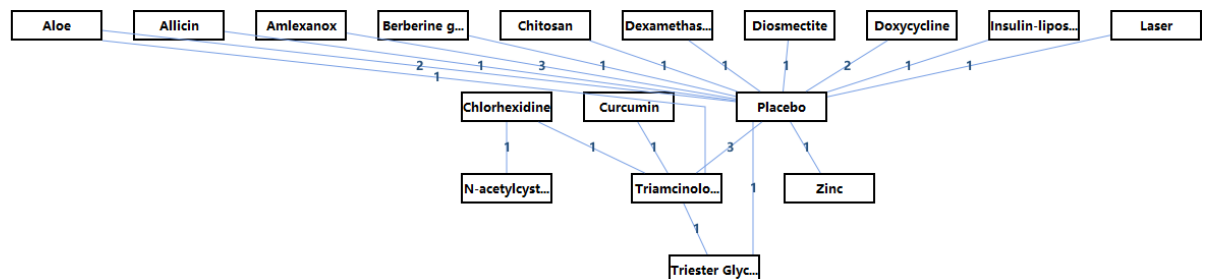
Inference samples : 10,000

Variance scaling factor: 2.5

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Aloe, Triamcinolone	18.64 (-51.20, 89.82)	15.88 (-56.56, 89.69)	16.41 (-32.38, 65.70)	0.94

4. Network structure



Day 7

1. Consistency Model

Aloe	8.28 (-29.91, 47.09)	3.27 (-34.44, 41.10)	11.63 (-14.23, 39.64)	8.42 (-22.49, 41.28)	4.91 (-22.35, 31.30)	10.31 (-13.72, 32.75)	-4.44 (-24.12, 17.39)	21.94 (-7.04, 53.69)	9.44 (-35.79, 52.40)	8.16 (-13.71, 28.52)	5.53 (-27.75, 40.21)
-8.28 (-47.09, 29.91)	Anthracox	-5.77 (-53.42, 42.30)	3.40 (-36.37, 44.23)	-0.05 (-20.69, 22.41)	-3.30 (-40.40, 31.63)	1.89 (-35.24, 36.01)	-12.73 (-43.87, 19.53)	13.56 (-23.55, 53.30)	0.59 (-53.02, 53.15)	-0.07 (-37.96, 35.16)	-3.00 (-43.99, 39.13)
-3.27 (-41.10, 34.44)	Chlorcedine	8.66 (-26.42, 45.14)	5.64 (-36.60, 50.04)	1.90 (-37.99, 40.35)	6.88 (-27.84, 40.74)	-7.29 (-42.37, 28.76)	18.81 (-21.20, 62.36)	6.14 (-15.99, 28.40)	4.88 (-27.16, 35.94)	2.78 (-41.64, 48.22)	
-11.63 (-39.64, 14.23)	Cineurin	-3.42 (-30.93, 37.76)	-3.42 (-37.76, 30.93)	-6.80 (-36.04, 20.42)	-1.43 (-25.33, 19.24)	-16.05 (-39.17, 7.77)	10.17 (-21.23, 44.08)	-2.59 (-45.24, 39.06)	-3.51 (-21.80, 11.68)	-6.29 (-40.77, 29.25)	
-8.42 (-41.28, 22.49)	Desmethasone	3.42 (-30.93, 37.76)	-3.49 (-34.40, 23.95)	1.76 (-28.88, 28.24)	-12.74 (-36.19, 11.15)	13.31 (-19.18, 47.12)	0.42 (-49.75, 49.38)	-0.26 (-31.61, 27.63)	-3.05 (-37.44, 33.26)		
-4.91 (-31.30, 22.35)	Doxycline	6.80 (-20.42, 36.04)	3.49 (-23.95, 34.40)	5.33 (-18.04, 27.48)	-9.23 (-24.43, 9.32)	16.97 (-9.50, 47.52)	4.33 (-41.47, 50.55)	3.30 (-20.56, 26.16)	0.84 (-28.70, 34.47)		
-10.31 (-32.75, 13.72)	1.43 (-19.24, 25.33)	-1.76 (-28.24, 28.88)	-5.33 (-27.48, 18.04)	Laser	-14.63 (-28.41, 3.42)	11.53 (-13.52, 42.18)	-0.99 (-41.39, 40.23)	-2.08 (-15.95, 12.27)	-4.22 (-33.75, 28.28)		
4.44 (-17.39, 24.12)	12.73 (-19.53, 43.87)	7.29 (-28.76, 42.37)	16.05 (-7.77, 39.17)	12.74 (-11.15, 36.19)	9.23 (-9.32, 24.43)	14.63 (-3.42, 28.41)	Fluorbo	26.25 (4.00, 49.84)	13.50 (-30.51, 54.46)	12.56 (-6.58, 27.34)	9.74 (-16.41, 37.01)
-21.94 (-53.69, 7.04)	-13.56 (-53.30, 23.55)	-18.81 (-62.36, 21.20)	-10.17 (-44.08, 21.23)	-13.31 (-47.12, 19.18)	-16.97 (-47.52, 9.50)	-11.53 (-42.18, 13.52)	Silver nitrate	-12.79 (-63.70, 33.39)	-13.61 (-44.71, 12.11)	-16.50 (-52.07, 18.61)	
-9.44 (-52.40, 35.79)	-0.59 (-53.15, 53.02)	-6.14 (-28.40, 15.99)	2.59 (-39.06, 45.24)	-0.42 (-49.38, 49.75)	-4.33 (-50.55, 41.47)	0.99 (-40.23, 41.39)	Sucralife	-1.06 (-39.83, 37.01)	-3.52 (-53.57, 47.73)		
-8.16 (-28.52, 13.71)	0.07 (-35.16, 37.96)	-4.88 (-35.94, 27.16)	3.51 (-11.68, 21.80)	0.26 (-27.63, 31.61)	-3.30 (-26.16, 20.56)	2.08 (-12.27, 15.95)	-12.56 (-27.34, 6.58)	13.61 (-12.11, 44.71)	1.06 (-37.01, 39.83)	Tramundione	-2.79 (-31.72, 30.24)
-5.53 (-40.21, 27.75)	3.00 (-39.13, 43.99)	-2.78 (-48.22, 41.64)	6.29 (-29.25, 40.77)	3.05 (-33.26, 37.44)	-0.84 (-34.47, 28.70)	4.22 (-28.28, 33.75)	-9.74 (-37.01, 16.41)	16.50 (-18.61, 52.07)	3.52 (-47.73, 53.57)	2.79 (-30.24, 31.72)	Zinc

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11	Rank 12
Aloe	0.01	0.01	0.02	0.03	0.04	0.06	0.08	0.12	0.15	0.18	0.16	0.14
Amlexanox	0.09	0.11	0.1	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.06	0.08
Chlorhexidine	0.02	0.09	0.08	0.06	0.06	0.07	0.07	0.07	0.08	0.09	0.13	0.19
Curcumin	0.08	0.14	0.14	0.14	0.12	0.11	0.09	0.07	0.05	0.04	0.02	0.01
Dexamethasone	0.03	0.1	0.12	0.11	0.1	0.09	0.1	0.1	0.09	0.07	0.05	0.03
Doxycycline	0.01	0.04	0.06	0.08	0.09	0.1	0.12	0.14	0.12	0.11	0.07	0.04
Laser	0.02	0.09	0.12	0.17	0.15	0.14	0.12	0.09	0.05	0.03	0.02	0.01
Placebo	0	0	0	0	0.01	0.02	0.04	0.07	0.13	0.2	0.26	0.28
Silver nitrate	0.48	0.18	0.13	0.07	0.05	0.03	0.02	0.02	0.01	0.01	0.01	0
Sucralfate	0.18	0.12	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.11	0.09
Triamcinolone	0	0.02	0.07	0.12	0.18	0.19	0.16	0.12	0.08	0.04	0.02	0
Zinc	0.07	0.1	0.08	0.07	0.07	0.06	0.07	0.08	0.08	0.09	0.1	0.13

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	8.57 (3.03, 21.72)

1.4 Convergence Diagnostics

Parameter	PSRF	
d.Chlorhexidine.Sucralfate	1.00	Number of chains : 4 Tuning iterations : 20,000 Simulation iterations : 50,000 Thinning interval : 10 Inference samples : 10,000 Variance scaling factor: 2.5
d.Dexamethasone.Amlexanox	1.00	
d.Placebo.Aloe	1.00	
d.Placebo.Dexamethasone	1.00	
d.Placebo.Doxycycline	1.00	
d.Placebo.Laser	1.01	
d.Placebo.Silvernitrate	1.00	
d.Placebo.Triamcinolone	1.01	
d.Placebo.Zinc	1.59	
d.Triamcinolone.Chlorhexidine	1.00	
d.Triamcinolone.Curcumin	1.00	
sd.d	1.01	

2.Inconsistency Model

2.1 Summary estimates

Aloe	7.22 (-35.81, 52.84)	-2.18 (-44.89, 42.62)	5.35 (-26.17, 42.91)	7.29 (-29.01, 45.57)	2.68 (-36.77, 27.63)	6.79 (-21.79, 35.22)	-5.79 (-28.86, 20.75)	20.61 (-14.82, 58.39)	4.19 (-47.24, 56.79)	9.62 (-17.50, 32.86)	6.17 (-35.93, 39.95)
-1.22 (-52.84, 35.81)	Ankerrox	-9.22 (-64.91, 44.78)	-2.22 (-46.74, 48.16)	-0.00 (-25.89, 26.29)	-4.87 (-54.04, 29.90)	-0.60 (-42.81, 39.92)	-12.84 (-49.54, 24.41)	13.98 (-33.09, 59.79)	-3.14 (-63.84, 57.81)	-5.34 (-48.39, 38.44)	-0.51 (-53.40, 40.25)
2.18 (-42.62, 44.89)	Chlorexidine	8.10 (-29.11, 49.08)	9.42 (-38.15, 57.97)	2.91 (-47.50, 43.54)	8.67 (-29.64, 45.45)	-3.12 (-42.98, 36.53)	23.20 (-23.50, 71.45)	6.26 (-19.82, 32.20)	4.40 (-28.58, 39.02)	8.61 (-44.68, 53.66)	
-5.35 (-42.91, 26.17)	Curemn	-8.10 (-49.08, 29.11)	2.04 (-38.40, 38.91)	-3.38 (-49.24, 24.64)	1.88 (-27.16, 22.35)	-10.90 (-42.26, 16.17)	15.61 (-26.19, 51.53)	-1.66 (-50.55, 43.38)	-2.93 (-24.12, 13.87)	1.42 (-47.93, 35.10)	
-7.29 (-45.57, 29.01)	Dexamethasone	-9.42 (-57.97, 38.15)	-2.04 (-38.91, 39.40)	-5.25 (-46.22, 2.284)	-0.67 (-35.26, 31.39)	-12.79 (-40.44, 14.81)	13.32 (-25.03, 51.20)	-3.17 (-58.23, 52.03)	-5.30 (-40.65, 30.00)	-0.50 (-46.96, 33.59)	
-2.68 (-27.63, 36.77)	Doxycycline	4.87 (-29.90, 54.04)	3.38 (-24.64, 49.24)	5.25 (-22.84, 46.22)	4.66 (-17.93, 38.89)	-8.18 (-22.16, 21.23)	17.99 (-7.98, 60.09)	2.97 (-43.71, 61.25)	0.35 (-24.06, 37.80)	5.18 (-25.52, 38.90)	
-6.79 (-35.22, 21.79)	Ester C	0.60 (-39.92, 42.81)	-1.88 (-22.35, 27.16)	0.67 (-31.39, 35.26)	-4.66 (-38.89, 17.93)	-12.00 (-29.93, 7.52)	14.34 (-17.53, 47.33)	-2.57 (-47.88, 43.83)	-4.69 (-20.15, 13.56)	-0.08 (-39.34, 30.35)	
5.79 (-20.75, 28.86)	Folic Acid	12.84 (-24.41, 49.54)	3.12 (-36.53, 42.98)	10.90 (-16.17, 42.26)	8.18 (-21.23, 22.16)	12.00 (-7.52, 29.93)	Picacho	26.27 (-0.56, 52.70)	9.67 (-38.34, 57.39)	1.90 (-36.27, 37.25)	11.53 (-23.02, 35.05)
-20.61 (-58.39, 14.82)	Gelatin	-13.38 (-59.79, 33.09)	-23.20 (-71.45, 23.50)	-15.61 (-51.53, 26.19)	-13.32 (-51.20, 23.03)	-17.99 (-60.09, 7.98)	-14.34 (-47.33, 17.53)	Silver Nitrate	-16.68 (-71.62, 37.56)	-18.68 (-52.96, 16.61)	-14.11 (-60.48, 19.06)
-4.19 (-56.79, 47.24)	Ibuprofen	3.14 (-57.81, 63.84)	-6.26 (-32.02, 19.82)	1.66 (-43.38, 50.95)	3.17 (-52.03, 58.23)	-2.97 (-61.25, 43.71)	2.57 (-43.83, 47.88)	Sucralose	-1.84 (-44.42, 41.42)	2.42 (-56.09, 54.27)	
-9.62 (-32.86, 17.50)	Lactitol	5.34 (-38.44, 48.39)	-4.40 (-39.02, 28.58)	2.93 (-13.87, 24.12)	5.30 (-30.00, 40.65)	-0.35 (-37.80, 24.06)	4.69 (-13.56, 20.15)	Tamoxifene	4.30 (-38.46, 35.32)		Zinc
-6.17 (-39.95, 35.93)	Vitamin E	0.51 (-40.25, 53.40)	-8.61 (-53.66, 44.86)	-1.42 (-35.10, 47.93)	0.50 (-33.59, 46.96)	-5.18 (-38.90, 25.52)	0.08 (-30.35, 39.34)				

2.2 Inconsistency Factors

Cycle	Median (95% CI)
Laser, Placebo, Triamcinolone	-5.32 (-28.08, 12.93)

2.3 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	9.36 (1.27, 23.84)
Inconsistency Standard Deviation	12.65 (0.78, 25.43)

2.4 Convergence Diagnostics

Parameter	PSRF	
d.Aloe.Placebo	1.08	
d.Chlorhexidine.Sucralfate	1.07	
d.Dexamethasone.Amlexanox	1.08	
d.Laser.Triamcinolone	1.07	
d.Placebo.Dexamethasone	1.06	
d.Placebo.Doxycycline	1.60	
d.Placebo.Laser	1.04	
d.Placebo.Silvernitrate	1.08	
d.Placebo.Zinc	1.46	
d.Triamcinolone.Chlorhexidine	1.02	
d.Triamcinolone.Curcumin	1.08	
w.Laser.Placebo.Triamcinolone	1.04	
sd.d	2.00	
sd.w	1.00	

Number of chains : 4

Tuning iterations : 20,000

Simulation iterations : 50,000

Thinning interval : 10

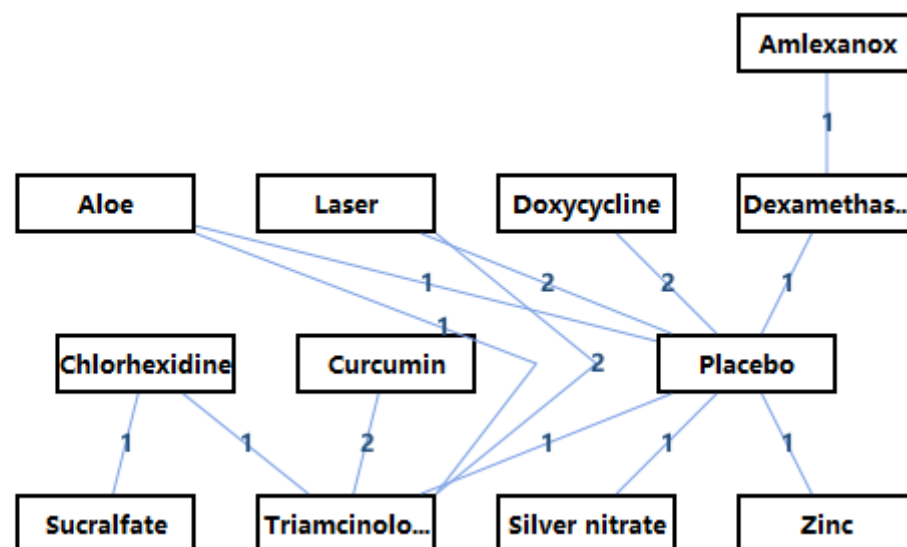
Inference samples : 10,000

Variance scaling factor: 2.5

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Laser, Placebo	-9.19 (-26.50, 11.28)	-23.95 (-49.70, 4.00)	-14.63 (-28.41, 3.42)	0.24
Laser, Triamcinolone	-6.77 (-25.31, 12.97)	9.13 (-21.39, 43.63)	-2.08 (-15.95, 12.27)	0.31
Placebo, Triamcinolone	17.68 (-4.24, 40.87)	2.27 (-24.74, 26.04)	12.56 (-6.58, 27.34)	0.23

4. Network structure



Day 8

1. Consistency Model

1.1 Summary estimates

Benzydamine	-12.99 (-32.92, 12.62)	13.14 (-2.11, 28.07)	-0.11 (-10.10, 10.43)	-0.24 (-10.39, 10.39)	-11.47 (-22.19, 0.55)
12.99 (-12.62, 32.92)	Chlorhexidine	25.39 (-1.50, 48.30)	13.02 (-11.37, 31.84)	12.83 (-11.63, 31.84)	1.88 (-19.09, 17.00)
-13.14 (-28.07, 2.11)	-25.39 (-48.30, 1.50)	Dexamethasone	-12.86 (-24.79, -0.78)	-12.95 (-24.20, -1.97)	-24.18 (-38.72, -9.63)
0.11 (-10.43, 10.10)	-13.02 (-31.84, 11.37)	12.86 (0.78, 24.79)	Doxycycline	-0.09 (-5.05, 4.62)	-11.12 (-20.78, -1.93)
0.24 (-10.39, 10.39)	-12.83 (-31.84, 11.63)	12.95 (1.97, 24.20)	0.09 (-4.62, 5.05)	Placebo	-11.10 (-20.96, -1.34)
11.47 (-0.55, 22.19)	-1.88 (-17.00, 19.09)	24.18 (9.63, 38.72)	11.12 (1.93, 20.78)	11.10 (1.34, 20.96)	Triamcinolone

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6
Benzydamine	0.03	0.37	0.15	0.34	0.1	0.02
Chlorhexidine	0.03	0.14	0.05	0.03	0.21	0.54
Dexamethasone	0.93	0.05	0.01	0.01	0	0
Doxycycline	0.01	0.23	0.4	0.29	0.07	0
Placebo	0	0.21	0.39	0.31	0.08	0.01
Triamcinolone	0	0	0.01	0.02	0.54	0.43

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	1.56 (0.10, 10.03)

1.4 Convergence Diagnostics

Parameter	PSRF	Number of chains : 4
d.Placebo.Benzydamine	1.00	Tuning iterations : 20,000
d.Placebo.Dexamethasone	1.01	Simulation iterations : 50,000
d.Placebo.Doxycycline	1.00	Thinning interval : 10
d.Placebo.Triamcinolone	1.00	Inference samples : 10,000
d.Triamcinolone.Chlorhexidine	4.64	Variance scaling factor: 2.5
sd.d	1.01	

2.Inconsistency Model

2.1 Summary estimates

Benzydamine	-9.51 (-30.86, 13.71)	12.49 (-4.10, 30.96)	0.51 (-10.65, 12.45)	-0.52 (-11.49, 11.30)	-10.30 (-23.01, 1.17)
9.51 (-13.71, 30.86)	Chlorhexidine	22.44 (-3.96, 46.40)	10.50 (-12.93, 30.73)	9.72 (-13.84, 30.26)	-0.85 (-21.51, 16.68)
-12.49 (-30.96, 4.10)	-22.44 (-46.40, 3.96)	Dexamethasone	-11.98 (-27.24, 1.26)	-12.74 (-26.59, -0.65)	-22.92 (-42.43, -7.14)
-0.51 (-12.45, 10.65)	-10.50 (-30.73, 12.93)	11.98 (-1.26, 27.24)	Doxycycline	-0.73 (-6.76, 4.72)	-11.08 (-22.32, -0.92)
0.52 (-11.30, 11.49)	-9.72 (-30.26, 13.84)	12.74 (0.65, 26.59)	0.73 (-4.72, 6.76)	Placebo	-10.24 (-21.33, 0.32)
10.30 (-1.17, 23.01)	0.85 (-16.68, 21.51)	22.92 (7.14, 42.43)	11.08 (0.92, 22.32)	10.24 (-0.32, 21.33)	Triamcinolone

2.2 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	2.06 (0.09, 10.83)
Inconsistency Standard Deviation	6.48 (0.26, 12.58)

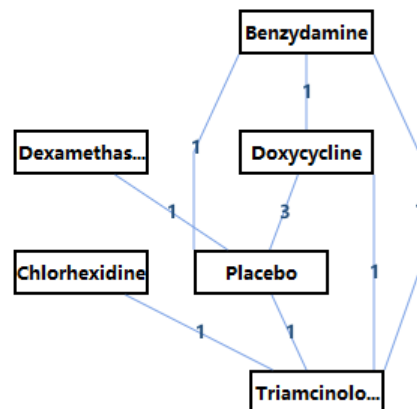
2.3 Convergence Diagnostics

Parameter	PSRF	Number of chains : 4
d.Benzydamine.Doxycycline	1.02	Tuning iterations : 20,000
d.Doxycycline.Placebo	1.11	Simulation iterations : 50,000
d.Placebo.Dexamethasone	1.01	Thinning interval : 10
d.Placebo.Triamcinolone	1.01	Inference samples : 10,000
d.Triamcinolone.Chlorhexidine	1.00	Variance scaling factor: 2.5
sd.d	1.02	
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Doxycycline, Triamcinolone	-10.89 (-22.76, -0.56)	-0.64 (-383.98, 380.63)	-11.12 (-20.78, -1.93)	0.96
Placebo, Triamcinolone	-11.15 (-22.38, 0.27)	1.43 (-381.59, 374.20)	-11.10 (-20.96, -1.34)	0.95

4. Network structure



Day 10

1. Consistency Model

1.1 Summary estimates

Benzydamine	-0.13 (-24.02, 23.63)	8.58 (-20.45, 36.99)	-3.88 (-21.34, 10.69)	-7.56 (-34.90, 13.44)	-7.97 (-27.63, 6.47)	-0.02 (-16.65, 16.99)
0.13 (-23.63, 24.02)	Chlorhexidine	8.63 (-21.61, 37.92)	-3.80 (-27.45, 17.84)	-7.44 (-39.68, 18.42)	-7.87 (-33.97, 13.21)	0.09 (-16.85, 17.08)
-8.58 (-36.99, 20.45)	-8.63 (-37.92, 21.61)	Curcumin	-12.66 (-41.78, 15.00)	-16.80 (-51.89, 14.80)	-16.97 (-47.99, 10.54)	-8.55 (-31.87, 15.78)
3.88 (-10.69, 21.34)	3.80 (-17.84, 27.45)	12.66 (-15.00, 41.78)	Doxycycline	-3.64 (-25.14, 14.67)	-3.91 (-15.61, 5.00)	3.97 (-10.57, 21.29)
7.56 (-13.44, 34.90)	7.44 (-18.42, 39.68)	16.80 (-14.80, 51.89)	3.64 (-14.67, 25.14)	Laser	-0.13 (-16.70, 16.64)	7.58 (-12.92, 34.99)
7.97 (-6.47, 27.63)	7.87 (-13.21, 33.97)	16.97 (-10.54, 47.99)	3.91 (-5.00, 15.61)	0.13 (-16.64, 16.70)	Placebo	8.09 (-6.64, 27.60)
0.02 (-16.99, 16.65)	-0.09 (-17.08, 16.85)	8.55 (-15.78, 31.87)	-3.97 (-21.29, 10.57)	-7.58 (-34.99, 12.92)	-8.09 (-27.60, 6.64)	Triamcinolone

1.2 Rank probability(Rank 1 is best, rank N is worst)

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7
Benzydamine	0.14	0.23	0.2	0.21	0.11	0.07	0.05
Chlorhexidine	0.14	0.24	0.17	0.14	0.11	0.09	0.11
Curcumin	0.6	0.12	0.08	0.06	0.04	0.04	0.06
Doxycycline	0.03	0.07	0.13	0.22	0.33	0.16	0.06
Laser	0.04	0.07	0.07	0.09	0.14	0.19	0.4
Placebo	0	0.02	0.04	0.08	0.16	0.4	0.3
Triamcinolone	0.05	0.24	0.33	0.2	0.1	0.06	0.02

1.3 Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	8.08 (2.39, 11.75)

1.4 Convergence Diagnostics

Parameter	PSRF	Number of chains : 4
d.Placebo.Benzylamine	1.29	Tuning iterations : 20,000
d.Placebo.Doxycycline	1.21	Simulation iterations : 50,000
d.Placebo.Laser	1.02	Thinning interval : 10
d.Placebo.Triamcinolone	1.30	Inference samples : 10,000
d.Triamcinolone.Chlorhexidine	1.02	Variance scaling factor: 2.5
d.Triamcinolone.Curcumin	1.01	
sd.d	1.51	

2.Inconsistency Model

2.1 Summary estimates

Benzylamine	0.12 (-22.25, 22.64)	8.86 (-19.00, 36.44)	-3.23 (-18.42, 10.84)	-6.51 (-28.92, 14.31)	-6.50 (-21.76, 7.57)	-0.10 (-15.59, 15.98)
-0.12 (-22.64, 22.25)	Chlorhexidine	8.66 (-18.53, 35.77)	-3.35 (-25.29, 18.10)	-6.55 (-34.20, 19.66)	-6.58 (-29.19, 14.60)	-0.05 (-15.86, 15.76)
-8.86 (-36.44, 19.00)	-8.66 (-35.77, 18.53)	Curcumin	-12.08 (-39.38, 14.82)	-15.60 (-46.80, 15.51)	-15.40 (-42.92, 11.22)	-8.75 (-31.44, 14.23)
3.23 (-10.84, 18.42)	3.35 (-18.10, 25.29)	12.08 (-14.82, 39.38)	Doxycycline	-3.25 (-21.62, 14.38)	-3.17 (-12.83, 5.82)	3.23 (-11.22, 18.76)
6.51 (-14.31, 28.92)	6.55 (-19.66, 34.20)	15.60 (-15.51, 46.80)	3.25 (-14.38, 21.62)	Laser	0.16 (-15.89, 15.61)	6.64 (-14.49, 28.81)
6.50 (-7.57, 21.76)	6.58 (-14.60, 29.19)	15.40 (-11.22, 42.92)	3.17 (-5.82, 12.83)	-0.16 (-15.61, 15.89)	Placebo	6.50 (-7.74, 22.38)
0.10 (-15.98, 15.59)	0.05 (-15.76, 15.86)	8.75 (-14.23, 31.44)	-3.23 (-18.76, 11.22)	-6.64 (-28.81, 14.49)	-6.50 (-22.38, 7.74)	Triamcinolone

2.2 Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	7.15 (2.76, 11.57)
Inconsistency Standard Deviation	6.08 (0.30, 11.66)

2.3 Convergence Diagnostics

Parameter	PSRF	Number of chains : 4
d.Benzylamine.Doxycycline	1.00	Tuning iterations : 20,000
d.Doxycycline.Placebo	1.00	Simulation iterations : 50,000
d.Placebo.Laser	1.00	Thinning interval : 10
d.Placebo.Triamcinolone	1.00	Inference samples : 10,000
d.Triamcinolone.Chlorhexidine	1.00	Variance scaling factor: 2.5
d.Triamcinolone.Curcumin	1.00	
sd.d	1.00	
sd.w	1.00	

3. Node-splitting analysis

Name	Direct Effect	Indirect Effect	Overall	P-Value
Doxycycline, Triamcinolone	0.07 (-16.35, 16.57)	-3.87 (-355.67, 356.11)	3.97 (-10.57, 21.29)	0.98
Placebo, Triamcinolone	9.71 (-4.44, 28.47)	8.71 (-337.74, 358.78)	8.09 (-6.64, 27.60)	1

4. Network structure

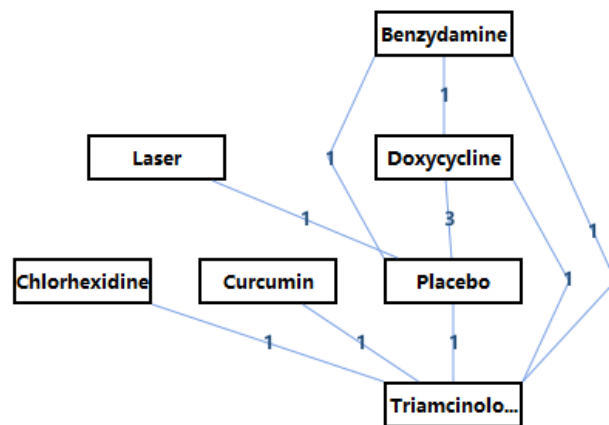
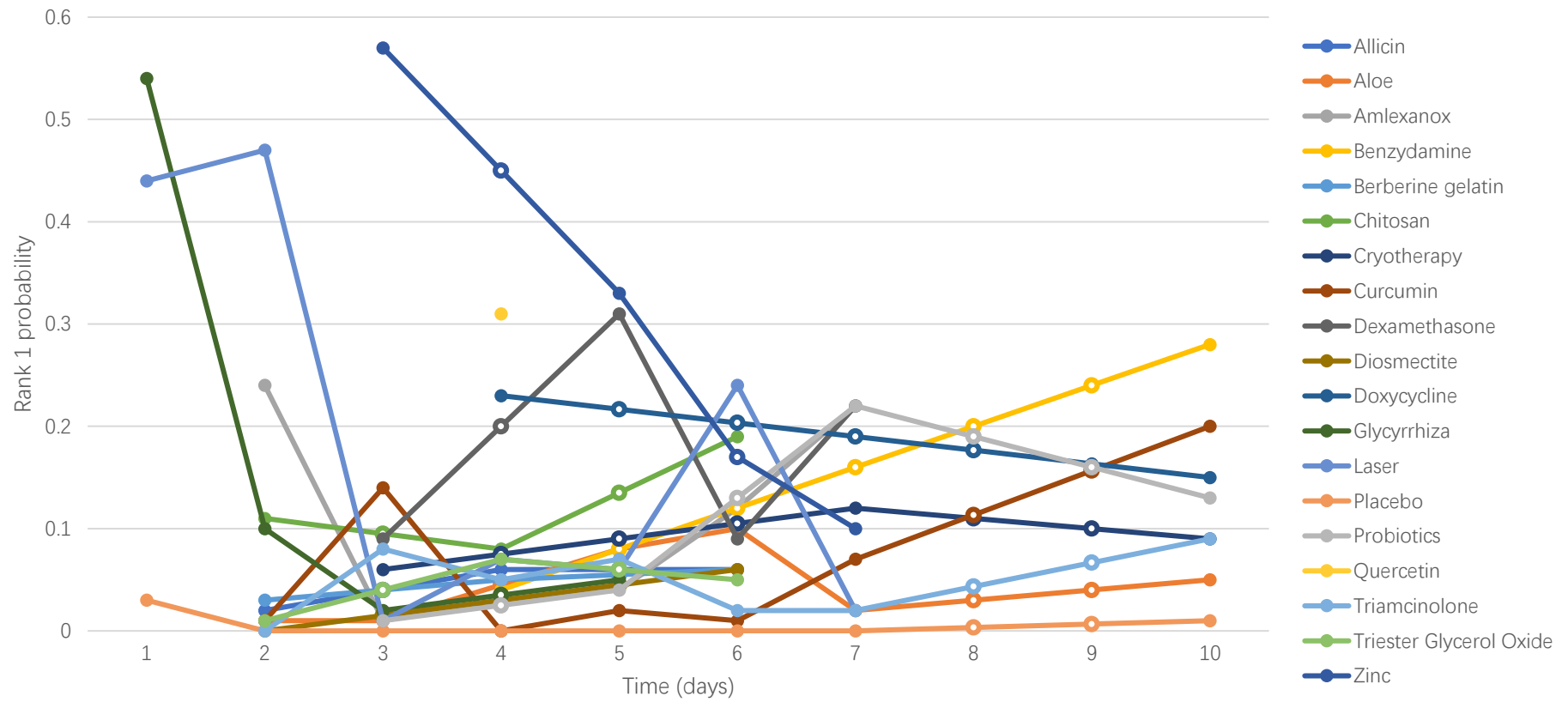


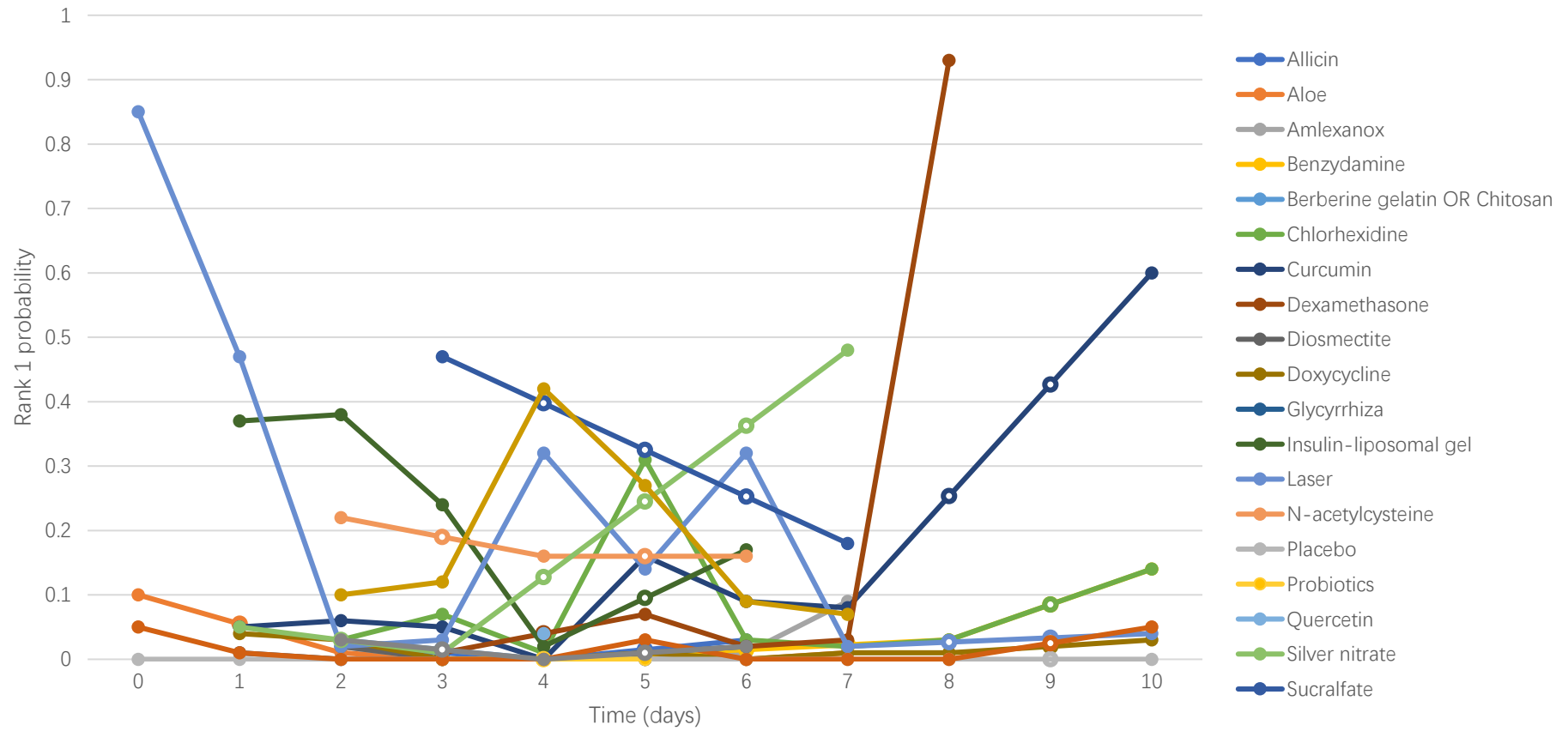
Chart S1 “Time-Rank 1 probability” folding line chart

In order to clearly demonstrate the effect of the different local interventions on ulcer size reduction and symptom reduction at the various stages of the trial, we plot line graphs on time-rank 1 probability. The solid points represent the real results obtained and the hollow points are only dummy values introduced to represent the trend in the effect of the local intervention according to a linear equation.

size-reducing effect



symptom-reducing effect



Chapter S4 Safety outcomes

Adverse effect

36 RCTs included in the study reported on the side effects of the topical interventions.

Interventions	RCTs	Events	Total
Allicin	1	0	48
Aloe	1	0	60
Amlexanox	5	9 (4 report local, transient “stinging”, 3 report "cooling" sensation and 3 report metallic taste)	328
Benzydamine	1	0	10
Berberine gelatin	1	0	48
Chitosan	2	1 (mild throat sore and bad taste)	54
Chlorhexidine	1	0	35
Curcumin	4	0	117
Dexamethasone	1	4 (slight rash surrounding the mouth, a burning sensation in the larynx, or a stimulant pain at the medication site)	120
Diosmectite	1	0	35
Doxycycline	3	9(1 report short burning sensation, 8 report transient bitter sensation)	60
Glycyrrhiza	1	0	20
Honey	2	0	92
Laser	5	0	95
Penicillin	1	3 (minor burning sensation)	25
Probiotics	2	0	25
Silver nitrate	2	0	60
Sucralfate	1	0	35
Triamcinolone	9	0	259
Triester Glycerol Oxide	1	0	56
Zinc	1	0	23

1.Consistency Model

Summary estimates for averse effect

The estimate values for adverse effect are given as risk difference (RD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Alice	0.00 (0.00, 1.2801)	0.00 (0.00, 6.7795612)	29743559.73 (0.00, 1.95.50 (0.00, 5.855834)	0.10 (0.00, 3.1074703)	488139.21 (0.00, 3.88)	0.23 (0.00, 5.1724186)	30463.40 (0.00, 4.235)	971619.18 (0.00, 3.30)
1779.43 (0.00, 1.2801)	Age	15406588244.49 (0.0358636.95 (0.00, 4.44)	353.77 (0.00, 6.19917)	2375935428.17 (0.00, 42.89 (0.00, 2.590922)	4255653.14 (0.00, 1.7)	625925929.84 (0.00, 0.00)	98262861 (0.00, 2.7443474)	0.00 (0.00, 3.5039437)
0.01 (0.00, 2.9259572)	Amlexarox	0.00 (0.00, 2.4059808)	91091.27 (0.00, 3.948)	Benzdamine	0.01 (0.00, 8.5083806)	178.26 (0.00, 1.54837)	0.01 (0.00, 1.6464214)	0.00 (0.00, 2.4032678)
0.01 (0.00, 1.9271667)	0.00 (0.00, 1.5599742)	86904344.51 (0.00, 3.151.75 (0.00, 3.52718)	0.01 (0.00, 8.5083806)	178.26 (0.00, 1.54837)	0.01 (0.00, 1.6464214)	0.00 (0.00, 2.4032678)	0.00 (0.00, 1.5711136)	0.00 (0.00, 1.8410647)
9.76 (0.00, 1.1342492)	0.00 (0.00, 6.3626914)	299.48 (0.00, 1.88077)	0.01 (0.00, 3.0363564)	0.00 (0.00, 9.8707875)	2052733.92 (0.00, 5.5)	0.20 (0.00, 4.9595304)	10236.77 (0.00, 1.389)	3690931.68 (0.00, 1.6)
0.00 (0.00, 1.3881182)	0.02 (0.00, 4.4161219)	8475814.80 (0.00, 1.92.96 (0.00, 1.236731)	4.93 (0.00, 1.4399524)	2035525.09 (0.00, 6.4)	Clozetasci	0.00 (0.00, 1.7287171)	0.00 (0.00, 4.3748785)	11.22 (0.00, 7.559230)
4.37 (0.00, 1.3881182)	0.00 (0.00, 2.7721300)	17259.99 (0.00, 6.682)	0.05 (0.00, 2.4395746)	0.00 (0.00, 5.0818455)	222.26 (0.00, 3.66016)	0.00 (0.00, 1.0637383)	14891.99 (0.00, 2.269)	2610072.73 (0.00, 7.1)
0.00 (0.00, 1.5581864)	0.00 (0.00, 2.7721300)	17259.99 (0.00, 6.682)	0.05 (0.00, 2.4395746)	0.00 (0.00, 5.0818455)	222.26 (0.00, 3.66016)	0.00 (0.00, 1.0637383)	14891.99 (0.00, 2.269)	2610072.73 (0.00, 7.1)
0.00 (0.00, 2.7013289)	0.00 (0.00, 7.2925201)	29.91 (0.08, 1.8750.26 (0.00, 1.2955323)	0.00 (0.00, 5.8074401)	0.09 (0.00, 6.4455000)	0.00 (0.00, 6.8097053)	0.00 (0.00, 2.1374551)	541.06 (0.00, 2.35778)	133596.25 (0.00, 3.06)
0.12 (0.00, 5.2192537)	0.00 (0.00, 1.0390338)	4240298.60 (0.00, 7.5)	22.84 (0.00, 1.024881)	0.01 (0.00, 6.9936172)	7337.77 (0.00, 5.592)	0.02 (0.00, 2.1374551)	541.06 (0.00, 2.35778)	133596.25 (0.00, 3.06)
0.00 (0.00, 1.0925525)	0.00 (0.00, 5.0043209)	0.00 (0.00, 1.53)	0.00 (0.00, 3.6427266)	0.00 (0.00, 2.1895129)	0.00 (0.00, 8.1447246)	0.00 (0.00, 3.4147359)	0.00 (0.00, 1.6502032)	0.00 (0.00, 0.06)
13.67 (0.00, 1.771286)	0.00 (0.00, 1.9226614)	286314486.75 (0.00, 7.742.05 (0.00, 6.5204)	1.77 (0.00, 5.1396439)	9486779.95 (0.00, 29.5.81 (0.00, 6.6181361)	68947.82 (0.00, 1.899)	8338551.59 (0.00, 2.2)	510558.19 (0.00, 1.12)	241.04 (0.00, 4.75799)
510558.19 (0.00, 1.12)	241.04 (0.00, 4.75799)	2357303542236.30 (2.89254382.66 (0.00, 9.579.77 (0.00, 1.9191)	3111833965.72 (0.00, 8.853.42 (0.00, 2.3398)	114289569.02 (0.00, 8.3222103031.52 (0.00, 4.155 (0.00, 8.980422)	0.28 (0.00, 8.5242948)	1562196143.41 (0.00, 3.23830.39 (0.00, 1.48)	1553.83 (0.00, 4.2529)	165292229.76 (0.00, 1.79.19 (0.00, 1.86861)
41.55 (0.00, 8.980422)	0.28 (0.00, 8.5242948)	1562196143.41 (0.00, 3.23830.39 (0.00, 1.48)	1553.83 (0.00, 4.2529)	165292229.76 (0.00, 1.79.19 (0.00, 1.86861)	317660.64 (0.00, 5.78)	48425776.88 (0.00, 1.1)	1.19 (0.00, 3.4653363)	0.00 (0.00, 1.8056717)
1.19 (0.00, 3.4653363)	0.00 (0.00, 3.490516)	20.00 (0.00, 3.45)	0.00 (0.00, 1.9470081)	0.00 (0.00, 1.0179858)	0.00 (0.00, 4.3915386)	0.00 (0.00, 8.4338449)	0.00 (0.00, 2.3105133)	0.00 (0.00, 0.10)
0.00 (0.00, 1.2424267)	0.00 (0.00, 3.1435817)	11.87 (0.28, 1.221.84)	0.00 (0.00, 3.8291446)	0.00 (0.00, 2.8771294)	0.04 (0.00, 2.5336157)	0.00 (0.00, 2.8099223)	0.00 (0.00, 2.9768411)	0.44 (0.00, 3.9.68)
0.00 (0.00, 9.8107911)	0.00 (0.00, 2.3909266)	18560648162.68 (0.01903891.94 (0.00, 4.6	96.44 (0.00, 1.725994)	1631705442.78 (0.00, 9.85.08 (0.00, 2.04170)	10744120.37 (0.00, 2.685908650.27 (0.00, 1.421721 (0.00, 2.848	6.32 (0.00, 2.3909266)	18560648162.68 (0.01903891.94 (0.00, 4.6	96.44 (0.00, 1.725994)
9.53 (0.00, 6.5559000)	0.03 (0.00, 4.3838884)	634303158.67 (0.00, 1.2978.14 (0.00, 4.375)	78.64 (0.00, 6.700159)	77513643.34 (0.00, 1.398.10 (0.00, 6.92762)	236305.11 (0.00, 1.67)	22182114.23 (0.00, 6	97756864232858512	405677176194523.2
97756864232858512	405677176194523.2	155874285730178924	43553105408361314	4630196115201825	18618815108529743	65679154382844456	73410790396307734	20570651302716812
6.75 (0.00, 1.6274194)	0.00 (0.00, 2.3290053)	248042441.84 (0.00, 1.968.29 (0.00, 3.5089)	0.50 (0.00, 2.3620006)	1303905.50 (0.00, 5.7)	1.01 (0.00, 1.8551345)	819.39 (0.00, 1.15557)	8362648.73 (0.00, 9.3	25.84 (0.00, 1.738817)
25.84 (0.00, 1.738817)	0.03 (0.00, 1.7928084)	304885285.84 (0.00, 2.52.70 (0.00, 4.81991)	0.96 (0.00, 4.0952882)	8737844.55 (0.00, 4.5)	0.53 (0.00, 1.2379849)	111743.09 (0.00, 2.72)	10359459.65 (0.00, 6	

8.07	(0.00, 14245820	179159184019466.6	(0.07 (0.00, 74417800	(0.00 (0.00, 67673897	(0.02 (0.00, 91598076	0.84	(0.00, 14473074	11995410744985566	2081706.29	(0.00, 62	(0.00 (0.00, 49806243				
26577.60	(0.00, 8983	16762833642392474	236.82	(0.00, 510091	(0.00 (0.00, 18211922	3.62	(0.00, 76243181	3847.17	(0.00, 52303	14291063434929485	1338904140.46	(0.00	0.16	(0.00, 31799259	
0.00	(0.00, 81521727	1395278.26	(0.65, 26	0.00 (0.00, 47915409	(0.00 (0.00, 42037465	0.00 (0.00, 39903372	0.00	(0.00, 31774052	7789711215.21	(0.29	0.08	(0.00, 3.52)	0.00	(0.00, 71629218	
0.04	(0.00, 44096871	524088819802.66	(0	(0.00 (0.00, 14235591	(0.00 (0.00, 24955402	0.00 (0.00, 14645864	0.01	(0.00, 11460975	13028662979938912	6996.16	(0.00, 24614	0.00	(0.00, 95606285		
82.04	(0.00, 8928644	3254276114437173	(0.56 (0.00, 37165177	0.00 (0.00, 39308743	0.00 (0.00, 45789221	65.90	(0.00, 1020745	14084693526390493	7939707.38	(0.00, 30	0.01	(0.00, 46881564			
0.00	(0.00, 86014641	3560728226.33	(0.00	(0.00 (0.00, 14984363	0.00 (0.00, 98007152	0.00 (0.00, 11598082	0.00	(0.00, 10970948	12411002727300.38	23.86	(0.00, 1372103	0.00	(0.00, 26401373		
54.19	(0.00, 5285005	367785632764922.5	(0.17 (0.00, 11575467	0.00 (0.00, 12274737	0.01 (0.00, 24799032	45.64	(0.00, 5659900	25737532503420314	6100256.94	(0.00, 13	0.00	(0.00, 58430438			
0.00	(0.00, 28850985	90780915358.26	(0	0.00 (0.00, 18164450	0.00 (0.00, 74339734	0.00 (0.00, 11261167	0.00	(0.00, 25822676	1869763179827788	(1350.55	(0.00, 40061	0.00	(0.00, 11177273		
0.00	(0.00, 22294281	40345058.39	(17.51, 0.00	(0.00, 13733717	0.00 (0.00, 14795078	0.00 (0.00, 12333577	0.00	(0.00, 88681834	219021826291.38	(9	2.26	(0.03, 202.63)	0.00	(0.00, 28340018	
Phosmetite		20134650118030.25	0.00	(0.00, 79541098	0.00 (0.00, 25718931	0.00 (0.00, 13535773	1.15	(0.00, 18908035	64532567030743680	297291.60	(0.00, 497	0.00	(0.00, 26028447		
0.00	(0.00, 30066570	Dowsyline		0.00	(0.00, 15788394	0.00 (0.00, 59841474	0.00	(0.00, 875.10)	0.00	(0.00, 13756889	3885.43	(0.00, 61929	0.00	(0.00, 30368085	
367.00	(0.00, 119978	6660105593931289	(CNCyrtHz2		0.00	(0.00, 28768137	0.01	(0.00, 41191073	72.89	(0.00, 8926664	22434624791409250	18198051.83	(0.00, 5	0.00	(0.00, 15112021
6628256.69	(0.00, 14	15765004434093180	14188.85	(0.00, 1878	money	163.62	(0.00, 150275	804045.86	(0.00, 508	42442200157852845	181239811725.30	(0	8.25	(0.00, 25762060	
1600.59	(0.00, 20545	58233478189134896	121.76	(0.00, 132871	0.01 (0.00, 59423727	Laser		10535.23	(0.00, 2965	11553708204429963	105101772.45	(0.00, 0.03	0.00	(0.00, 10741497	
0.87	(0.00, 14206879	21648679651076.24	0.01	(0.00, 29198886	0.00 (0.00, 28574717	0.00 (0.00, 14165912	money		64805737992517645	996627.97	(0.00, 8707	0.00	(0.00, 18022840		
0.00	(0.00, 10510171	0.00 (0.00, 24012917	0.00	(0.00, 66271843	0.00 (0.00, 55858630	0.00 (0.00, 106.57)	0.00	(0.00, 23654218	0.00	(0.00, 29595640	103133737876.48	(7	Peace	0.00	(0.00, 566069.82
0.00	(0.00, 88297629	17629126.31	(17.46, 0.00	(0.00, 66378286	0.00 (0.00, 58563467	0.00 (0.00, 38948662	0.00	(0.00, 29595640	103133737876.48	(7	Peace		0.00	(0.00, 11003059	
3388.91	(0.00, 58273	22662818563877283	386.08	(0.00, 392880	0.12	(0.00, 64789700	30.10	(0.00, 4900062	180809.91	(0.00, 133	12705884877122506	1554787148.86	(0.00		Probiotics
205.04	(0.00, 675817	14326490070467734.20	(0.00, 47879380	0.00 (0.00, 85040573	0.92 (0.00, 76564274	3745.88	(0.00, 23124	91231175311989960	43876646.48	(0.00, 1	0.00	(0.00, 10656641			
48583172399791750	90339117659138750	786123725181457.0	75281414437.06	(0	40782394449006.22	21091022864645209	23278843419680943	4312013098256442	5409036028181.45	(0					
111.40	(0.00, 626963	3304812767729931	(1.45 (0.00, 13809747	0.00 (0.00, 44072515	0.02 (0.00, 79103293	17.56	(0.00, 5484954	15866992607524266	19087254.90	(0.00, 1	0.00	(0.00, 62186403			
132.85	(0.00, 399774	9069683347239406	(0.03 (0.00, 36923980	0.00 (0.00, 21246026	0.01 (0.00, 11271375	135.87	(0.00, 380184	96423371705792150	20780188.25	(0.00, 1	0.00	(0.00, 18154334			

0.10 (0.00, 16291917	0.00 (0.00, 53658820	0.15 (0.00, 74026898	0.04 (0.00, 58222375
29.03 (0.00, 5602728	0.00 (0.00, 20060255	365.43 (0.00, 640568	31.15 (0.00, 2447007
0.00 (0.00, 35941342	0.00 (0.00, 0.00)	0.00 (0.00, 52421976	0.00 (0.00, 20572351
0.00 (0.00, 22415412	0.00 (0.00, 38722108	0.00 (0.00, 32023617	0.00 (0.00, 53928468
0.01 (0.00, 10614015	0.00 (0.00, 99593565	2.02 (0.00, 51661781	1.05 (0.00, 18710743
0.00 (0.00, 15794748	0.00 (0.00, 0.08)	0.00 (0.00, 99300653	0.00 (0.00, 85609614
0.00 (0.00, 11828327	0.00 (0.00, 11667577	0.99 (0.00, 25878136	1.89 (0.00, 13455355
0.00 (0.00, 20098081	0.00 (0.00, 70453969	0.00 (0.00, 27431359	0.00 (0.00, 22469827
0.00 (0.00, 11416080	0.00 (0.00, 0.00)	0.00 (0.00, 16705726	0.00 (0.00, 59804123
0.00 (0.00, 18643620	0.00 (0.00, 20061798	0.01 (0.00, 15725986	0.01 (0.00, 36048854
0.00 (0.00, 46650966	0.00 (0.00, 0.00)	0.00 (0.00, 11113104	0.00 (0.00, 32200723
0.24 (0.00, 84524037	0.00 (0.00, 40907691	0.69 (0.00, 38703867	29.65 (0.00, 4083894
435.09 (0.00, 914316	0.00 (0.00, 15799893	22675.55 (0.00, 5095	27664.93 (0.00, 1636
1.09 (0.00, 85720831	0.00 (0.00, 80493267	48.64 (0.00, 4955122	1109.18 (0.00, 109589
0.00 (0.00, 34802356	0.00 (0.00, 95466242	0.06 (0.00, 68283635	0.01 (0.00, 11419142
0.00 (0.00, 43611583	0.00 (0.00, 0.00)	0.00 (0.00, 17159074	0.00 (0.00, 88662838
0.00 (0.00, 52018465	0.00 (0.00, 0.00)	0.00 (0.00, 63331872	0.00 (0.00, 20611439
2194.43 (0.00, 12867	0.00 (0.00, 16694787	503.22 (0.00, 353615	251.83 (0.00, 133121
Silver nitrate	0.00 (0.00, 23044968	11.42 (0.00, 3784319	3.00 (0.00, 33153874
1267023415621751	Tramcinolone	1243638458607581	856132133843612.1
0.09 (0.00, 60903990	0.00 (0.00, 18456638	Triester Glycerol Oxy	1.18 (0.00, 18011035
0.33 (0.00, 13853399	0.00 (0.00, 71797328	0.85 (0.00, 36947522	Zinc

Rank probability

Rank 1 is worst, rank N is best.

Drug	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6	Rank 7	Rank 8	Rank 9	Rank 10	Rank 11
Alliein	0.04	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.04
Aloe	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Amlexanox	0	0	0	0.03	0.08	0.16	0.2	0.2	0.14	0.09	0.05
Benzylamine	0.07	0.06	0.06	0.05	0.05	0.05	0.03	0.02	0.03	0.03	0.04
Berberine gelatin	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.03	0.04
Chitosan	0.07	0.07	0.07	0.07	0.06	0.04	0.04	0.03	0.03	0.04	0.05
Clopetasol	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
Curcumin	0.06	0.05	0.05	0.05	0.05	0.04	0.05	0.02	0.03	0.04	0.05
Dexamethasone	0	0	0	0	0.01	0.04	0.08	0.13	0.18	0.2	0.15
Dioecetite	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.03	0.05
Doxycycline	0.07	0.13	0.19	0.2	0.16	0.13	0.06	0.03	0.01	0.01	0
Glycyrrhiza	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.03	0.03
Honey	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.04
Laser	0	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.07
Mincocycline	0.05	0.05	0.05	0.04	0.06	0.04	0.03	0.03	0.03	0.03	0.04
Penicillin	0.27	0.2	0.14	0.11	0.1	0.07	0.05	0.03	0.02	0.01	0
Placebo	0	0	0	0	0.01	0.05	0.11	0.18	0.21	0.17	0.13
Probiotics	0.01	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.04
Silver nitrate	0.01	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.04	0.04
Tramcinolone	0	0	0	0	0	0	0	0	0	0	0
Triester Glycerol Oxide	0.06	0.05	0.06	0.03	0.04	0.03	0.03	0.02	0.03	0.03	0.03
Zinc	0.06	0.04	0.06	0.04	0.03	0.03	0.03	0.02	0.02	0.03	0.03

Rank 12	Rank 13	Rank 14	Rank 15	Rank 16	Rank 17	Rank 18	Rank 19	Rank 20	Rank 21	Rank 22
0.04	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04
0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06
0.02	0.01	0	0	0	0	0	0	0	0	0
0.04	0.05	0.04	0.04	0.05	0.04	0.05	0.04	0.05	0.05	0.04
0.04	0.05	0.05	0.07	0.06	0.06	0.06	0.05	0.05	0.08	0.04
0.05	0.07	0.06	0.06	0.05	0.05	0.04	0.03	0.02	0.01	0
0.04	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.06	0.05	0.07
0.05	0.06	0.06	0.06	0.06	0.05	0.06	0.05	0.04	0.02	0
0.11	0.06	0.03	0.01	0	0	0	0	0	0	0
0.05	0.05	0.07	0.06	0.06	0.06	0.04	0.05	0.05	0.06	0.04
0	0	0	0	0	0	0	0	0	0	0
0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.06	0.08
0.04	0.05	0.05	0.06	0.06	0.07	0.06	0.06	0.05	0.07	0.12
0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.03
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
0	0	0	0	0	0	0	0	0	0	0
0.08	0.04	0.01	0	0	0	0	0	0	0	0
0.06	0.06	0.07	0.09	0.07	0.07	0.07	0.06	0.06	0.06	0.05
0.06	0.05	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.04	0.07
0.01	0.01	0.03	0.04	0.06	0.08	0.1	0.16	0.16	0.18	0.15
0.04	0.05	0.06	0.06	0.05	0.06	0.06	0.05	0.06	0.05	0.07
0.04	0.05	0.05	0.05	0.07	0.05	0.06	0.05	0.05	0.04	0.08

Consistency check

Parameter	Median (95% CI)
Random Effects Standard Deviation	1.96 (0.12, 3.15)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Amlexanox.Clobetasold.Placebo.Aloe	1.01
d.Amlexanox.Placebo	1.00
d.Placebo.Allicin	1.01
d.Placebo.Aloe	1.01
d.Placebo.Benzydamine	1.04
d.Placebo.Berberinegelatin	1.03
d.Placebo.Chitosan	1.03
d.placebo.Curcumin	1.04
d.Placebo.Dexamethasoned.Placebo.Laser	1.00
d.Placebo.Diosmectite	1.01
d.Placebo.Doxycycline	1.07
d.Placebo.Glycyrrhiza	1.02
d.Placebo.Honey	1.01
d.Placebo.Laser	1.03
d.Placebo.Minocycline	1.03
d.Placebo.Penicillin	1.07
d.Placebo.Probiotics	1.01
d.Placebo.Silvernitate	1.04
d.Placebo.Triamcinolone	1.08
d.Placebo.TriesterGlycerolOxide	1.02
d.Placebo.Zinc	1.04
sd.d	1.00

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 400,000
Thinning interval : 10
Inference samples : 80,000
Variance scaling factor : 2.5

2.Inconsistency Model

Summary estimates for adverse effect

The estimate values for adverse effect are given as risk difference (RD) and 95% confidence interval (CI). The table shows the pooled estimates based on the network meta-analysis during the treatment period for each study.

Alliin	422265.84 (0.00, 158	0.00 (0.00, 85516421	35232234030296.547.93 (0.00, 24350761	831925425903763460.00 (0.00, 31049907	910467984585.53 (0.00 (0.00, 98940324
0.00 (0.00, 35169296	0.00 (0.00, 46947781	22713750037.61 (0.00 (0.00, 52523810	1276407829341.87 (0.00 (0.00, 17986047	3283788.08 (0.00, 72 (0.00 (0.00, 14341411	
94650.94 (0.00, 8876	169041810429.87 (0	Amlexanox	62863198160201270	987824.54 (0.00, 974	30857461484745650.00 (0.00, 12062518138542915707380860.03 (0.00, 9.76)
0.00 (0.00, 68538205	0.00 (0.00, 14929798	0.00 (0.00, 47912728	Perxydantime	0.00 (0.00, 10188422	64.84 (0.00, 17338340.00 (0.00, 19104736
0.13 (0.00, 10640292	232495554.70 (0.00,	0.00 (0.00, 19267313	58852321262523695	Barbentine gelatin	0.00 (0.00, 43822414
0.00 (0.00, 15767149	0.00 (0.00, 90153895	0.00 (0.00, 15.19)	0.02 (0.00, 12528143	0.00 (0.00, 18664025	330322672938804860.00 (0.00, 43822414
128313640154.88 (0	70296956814351984	151110011.76 (0.00,	36109862853880890	577825229757310.94	19749517812388528
0.00 (0.00, 18529853	0.00 (0.00, 33088175	0.00 (0.00, 47993683	8459.06 (0.00, 16504	0.00 (0.00, 13774533	593840.28 (0.00, 1030.00 (0.00, 38549881
3593403.97 (0.00, 41	6065040763170.86 (31.43 (0.10, 21450.83	26601751751452710	36984516.01 (0.00, 2	12237882876578760.00 (0.00, 80397817	52922940155503080
0.01 (0.00, 30456428	4674069.71 (0.00, 22 (0.00 (0.00, 42645192	159842172822236	0.03 (0.00, 41091319	164226620150504980.00 (0.00, 77447509	11734841593834.45 (0.00 (0.00, 13651660
0.00 (0.00, 15667396	0.00 (0.00, 64388183	0.00 (0.00, 0.07)	0.01 (0.00, 17712484	0.00 (0.00, 91148672	7.70 (0.00, 31876142
0.00 (0.00, 60830700	6155116.67 (0.00, 23 (0.00 (0.00, 36805384	135066592352402	12.24 (0.00, 29028825	277415757293523480.00 (0.00, 32286278	3986507223495.19 (0.00 (0.00, 10493601
15871.16 (0.00, 2412	481153680.27 (0.00,	0.01 (0.00, 20908061	78215749904620450	99.78 (0.00, 1937091	105584398621867220.00 (0.00, 11213947
0.00 (0.00, 71385981	0.00 (0.00, 62953482	0.00 (0.00, 386081	094273.99 (0.00, 28098	0.00 (0.00, 46374906	1035.85 (0.00, 35388
0.02 (0.00, 74985556	47591.94 (0.00, 1760	0.00 (0.00, 13745429	1682489299731846	7.00 (0.00, 65371725	77385943693983320.00 (0.00, 22520979
0.00 (0.00, 40057517	0.00 (0.00, 78356944	0.00 (0.00, 2.53)	236627369.95 (0.00,	0.00 (0.00, 81190738	186837268.63 (0.00, 0.00 (0.00, 48025456
1679696.94 (0.00, 17	27525128547.20 (16.22 (0.38, 1524.01)	11318806839505591	17241818.13 (0.00, 1	4664951532208321	70.00 (0.00, 29655350
69532.69 (0.00, 2920	498696883304.45 (0.16,68 (0.00, 2635201	15333360552885422	18197313.67 (0.00, 1	24229502765351440	0.00 (0.00, 20060009
3108811350585493	42902134952894750	1065744093.79 (0.00	87746055000639840	1994128090329077	104852026033468794.99 (0.00, 8737841
0.01 (0.00, 63000346	828.65 (0.00, 151351	0.00 (0.00, 31323559	13751212353496.6	0.00 (0.00, 12831286	498551080354059.300.00 (0.00, 75976960
0.00 (0.00, 33590025	0.00 (0.00, 50490538	0.00 (0.00, 14361159	407933.33 (0.00, 322	0.00 (0.00, 30855035	4264218.97 (0.00, 95.00 (0.00, 31550031
14316349579508516	78563561659500100	5432267777.05 (0.00	35801671111418930	72577669483211377	127952634279316411950.60 (0.00, 29213.3341401278637459
					141940971.11 (0.00,

107.84	(0.00, 499235	25255997735344041	(215.94	(0.00, 107200	(0.00, 0.00, 26700287	92575671482862.42	58.99	(0.00, 3721806	648418690.41	(0.00, 0.00	(0.00, 20214264	(0.00	(0.00, 86961249				
0.00	(0.00, 21485820	72339264193.05	(0.00	(0.00, 62241819	(0.00, 0.00, 18457147	17361060466.26	(0.00	(0.00, 2296670	3142.31	(0.00, 21042	(0.00	(0.00, 30176530	(0.00, 45807097				
255690.79	(0.00, 234	92743412057263110	3567619.48	(0.00, 1871.56	(0.00, 1089817	53452194804731100	29931781.79	(0.00, 2	3898944829886.85	(0.06	(0.00, 2.62)	0.06	(0.00, 10246570				
0.00	(0.00, 57627105	102.85	(0.00, 148140	(0.00, 0.00, 33743220	(0.00, 0.00, 22728826	0.00	(0.00, 10161871	(0.00	(0.00, 10410254	(0.00	(0.00, 17917877	(0.00	(0.00, 29394322	(0.00, 13629937			
36.24	(0.00, 3497684	104052576995611530	0.45	(0.00, 15478135	(0.01	(0.00, 15339951	3509952562443721	3670.84	(0.00, 43765	23263501269.31	(0.00	(0.00	(0.00, 10690893	(0.00	(0.00, 39028659		
0.00	(0.00, 10421091	0.13	(0.00, 34716064	(0.00, 0.00, 37443659	(0.00, 0.00, 45056964	0.00	(0.00, 28510690	(0.00	(0.00, 18011418	(0.00	(0.00, 40591800	(0.00	(0.00, 0.73)	0.00	(0.00, 18672.42)		
11608982839196.32	27205715577314885452367009828209.5	166475077131.28	(0.20158214625206784	18404419619070512	10580588220554398	7684937.76	(0.00, 28	9480048.15	(0.00, 10								
0.00	(0.00, 55255439	111307.02	(0.00, 4670.00	(0.00, 79829125	(0.00, 0.00, 38146187	62.13	(0.00, 3327582	(0.00	(0.00, 54681853	(0.00	(0.00, 28385228	(0.00	(0.00, 2800430	20.00	(0.00, 11830219		
10046297.76	(0.00, 8	2973133322359611	173717321.58	(0.00, 2580.25	(0.00, 302861	19293133397510985	1037278703.89	(0.00	171547339584864.6	2.11	(0.03, 188.98)	2.78	(0.00, 38246120				
Diosmetin	590242036700167365.42	(0.00, 28203600	0.01	(0.00, 57728881	702925166393233.6	2769.58	(0.00, 26058	2374673024.05	(0.00	0.00	(0.00, 25799331	(0.00	(0.00, 20603297				
	0.00	(0.00, 38737556	Doxycycline	0.00	(0.00, 53831891	(0.00	(0.00, 21534360	(0.00	(0.00, 15421582	(0.00	(0.00, 12985025	(0.00	(0.00, 12241276	(0.00	(0.00, 0.00)	0.00	(0.00, 26435484
0.18	(0.00, 21691037	20952522014284008	Civcymha	0.00	(0.00, 87711740	81030406889873.20	56.74	(0.00, 6207405	234976443.60	(0.00, 0.00	(0.00, 17721672	(0.00	(0.00, 24081971				
78.14	(0.00, 1110167	29625736141736714	4468.12	(0.00, 14782	Honey	63775538251971040	81577.96	(0.00, 3356	6825972172324.43	(0.00	(0.00, 12641805	(0.00	(0.00, 14547716				
0.00	(0.00, 152065.44	2285.60	(0.00, 22022	(0.00, 0.00, 49785358	(0.00	(0.00, 11277612	Laser	0.00	(0.00, 36815139	(0.00	(0.00, 19510622	(0.00	(0.00, 9951.34)	0.00	(0.00, 21112247		
0.00	(0.00, 22055068	39194915399782136	0.02	(0.00, 22290805	(0.00	(0.00, 53211533	115049584131465.1	Minoxycline	720562279.42	(0.00, 0.00	(0.00, 61741669	(0.00	(0.00, 10344326				
0.00	(0.00, 40702659	47346960385	(0.00, 0.00	(0.00, 11914176	(0.00	(0.00, 32360757	385996.09	(0.00, 330	(0.00	(0.00, 33791706	Penicillin	0.00	(0.00, 0.09)	0.00	(0.00, 30548293		
4644117.45	(0.00, 39	12530445733428424	66217780.24	(0.00, 3	1210.79	(0.00, 15158	87461960743938740	450965706.27	(0.00, 69903980918295.03	Placebo	1.16	(0.00, 17422983					
19392642.18	(0.00, 1	41732280048372270	1699347270.69	(0.00	374.98	(0.00, 948011	33548849683196087	3281786041.93	(0.00	1743295870329441	0.86	(0.00, 13943935	Probiotics	0.00	(0.00, 14991748		
846290194869256.4	263966948949634901	1984214794461827	14414807211254.01	(115405423831752270	278473588183832634	9446521458528973	58129989.22	(0.00, 4	82639354.19	(0.00, 5							
0.01	(0.00, 59169732	143243715429094	0.06	(0.00, 35781368	(0.00	(0.00, 11775026	1942652597739.67	(0.00	(0.00, 67477018	2667555.10	(0.00, 53	(0.00	(0.00, 11870547	(0.00	(0.00, 14991748		
0.00	(0.00, 98369996	6265418.14	(0.00, 49	(0.00	(0.00, 75143991	(0.00	(0.00, 11328819	184.34	(0.00, 115343	(0.00	(0.00, 31104613	(0.00	(0.00, 30363112	(0.00	(0.00, 50507170	(0.00	(0.00, 12275404
28362475570668657	16609684621031662	2295391358881130	82520788628524.17	36126491352282154	30670697403123348	39534096437820520	300661221.92	(0.00, 31593602259.85	(0.00								

0.00 (0.00, 58465612)	124.87 (0.00, 780648)	19306951629180.37	0.00 (0.00, 70672695)
0.00 (0.00, 54321569)	0.00 (0.00, 10658523)	244233680 (0.00, 23	0.00 (0.00, 13156973)
0.00 (0.00, 15290664)	9264651.40 (0.00, 10	32489790475993466	0.00 (0.00, 55686587)
0.00 (0.00, 12004464)	0.00 (0.00, 11565255)	0.00 (0.00, 13979627)	0.00 (0.00, 16161415)
0.00 (0.00, 60206393)	2953.64 (0.00, 11963)	34485730974180.96	0.00 (0.00, 15977221)
0.00 (0.00, 1169.44)	0.00 (0.00, 1.35)	0.00 (0.00, 90855809)	0.00 (0.00, 31654437)
0.01 (0.00, 51096823)	1025608602205931.4	40367988301283230	0.00 (0.00, 24485696)
0.00 (0.00, 35734027)	0.00 (0.00, 20741168)	0.21 (0.00, 56993921)	0.00 (0.00, 11558009)
0.00 (0.00, 58448364)	367378735.54 (0.00, 1257	1685100086012	0.00 (0.00, 16838941)
0.00 (0.00, 23331217)	133.92 (0.00, 170904)	8316068628224.52	0.00 (0.00, 51679929)
0.00 (0.00, 1005094.1)	0.00 (0.00, 65942244)	0.00 (0.00, 16230468)	0.00 (0.00, 2622231.3)
0.00 (0.00, 71890506)	16.26 (0.00, 1585500)	3920557116019.13	0.00 (0.00, 47051059)
0.00 (0.00, 52436850)	1119936.10 (0.00, 77	22002927893239337	0.00 (0.00, 11415736)
0.00 (0.00, 26149242)	0.00 (0.00, 14409162)	0.01 (0.00, 24906544)	0.00 (0.00, 31748075)
0.00 (0.00, 61925783)	200.51 (0.00, 254773)	2684234756549.01	0.00 (0.00, 72872962)
0.00 (0.00, 13318730)	0.00 (0.00, 41217800)	53414.33 (0.00, 8599)	0.00 (0.00, 24680416)
0.00 (0.00, 25750197)	160532814.00 (0.00, 52287	722753296660	0.00 (0.00, 82319368)
0.00 (0.00, 27581590)	68756544.56 (0.00, 4	22310219200917148	0.00 (0.00, 92490932)
Silver nitrate	47353672292945664	38467196309905150	0.02 (0.00, 27759999)
0.00 (0.00, 27502052)	Triamcinolone	3574761030.36 (0.00	0.00 (0.00, 47059547)
0.00 (0.00, 19258440)	0.00 (0.00, 25484350)	Triester Glycerol Oxide	0.00 (0.00, 27100439)
49.39 (0.00, 4101602)	43865511321584940	859928419480467830	Zinc

Inconsistency Factors

Cycle	Median (95% CI)
Aloe , Chitosan , Placebo , Triamcinolone	0.06 (-3.99, 3.92)
Aloe , Curcumin , Placebo , Triamcinolone	-0.04 (-3.96, 3.89)
Aloe , Doxycycline , Placebo , Triamcinolone	-0.04 (-3.80, 3.90)
Aloe , Honey , Placebo , Triamcinolone	0.03 (-3.92, 3.97)
Aloe , Laser , Placebo , Triamcinolone	-0.02 (-4.02, 4.01)
Aloe , Placebo , Probiotics , Triamcinolone	-0.06 (-4.11, 3.80)
Aloe , Honey , Placebo , Silver nitrate , Triamcinolone	-0.06 (-4.01, 3.89)
Aloe , Placebo , Triamcinolone	-0.01 (-6.14, 3.81)
Aloe , Placebo , Triamcinolone	-0.01 (-6.14, 3.81)
Aloe , Placebo , Triamcinolone	-0.01 (-6.14, 3.81)

Variance Calculation

Parameter	Median (95% CI)
Random Effects Standard Deviation	1.89 (0.04, 3.15)
Inconsistency Standard Deviation	1.62 (0.11, 3.13)

Convergence Diagnostics

Convergence is assessed using the Brooks-Gelman-Rubin method. This method compares within-chain and between-chain variance to calculate the Potential Scale Reduction Factor (PSRF). A PSRF close to one indicates approximate convergence has been reached.

Parameter	PSRF
d.Allicin.Placebo	1.05
d.Aloe.Triamcinolone	1.46
d.Amlexanox.Clobetasol	1.01
d.Benzydamine.Doxycycline	1.05
d.Honey.Silvernitate	1.03
d.Placebo.Aloe	1.21
d.Placebo.Amlexanox	1.00
d.Placebo.Berberinegelatin	1.01
d.Placebo.Dexamethasone	1.00
d.Placebo.Diosmectite	1.01
d.Placebo.Glycyrrhiza	1.06
d.Placebo.Minocycline	1.03
d.Placebo.Penicillin	1.12
d.Placebo.Zinc	1.03
d.Triamcinolone.Benzydamine	1.06
d.Triamcinolone.Chitosan	1.00
d.Triamcinolone.Curcumin	1.06
d.Triamcinolone.Honey	1.02
d.Triamcinolone.Laser	1.02
d.Triamcinolone.Probiotics	1.21
d.Triamcinolone.TriesterGlycerolOxide	1.02
w.Aloe.Placebo.Chitosan.Triamcinolone	1.01
w.Aloe.Placebo.Curcumin.Triamcinolone	1.01
w.Aloe.Placebo.Doxycycline.Triamcinolone	1.00
w.Aloe.Placebo.Honey.Triamcinolone	1.01
w.Aloe.Placebo.Laser.Triamcinolone	1.00
w.Aloe.Placebo.Probiotics.Triamcinolone	1.00
w.Aloe.Placebo.Silvernitate.Honey.Triamcinolone	1.00
w.Aloe.Placebo.Triamcinolone	1.04
w.Aloe.Placebo.Triamcinolone	1.04
w.Aloe.Placebo.Triamcinolone	1.04
sd.d	1.08
sd.w	1.00

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 400,000
Thinning interval : 10
Inference samples : 80,000
Variance scaling factor : 2.5

3. Node-splitting analysis

Node-splitting analysis of inconsistency

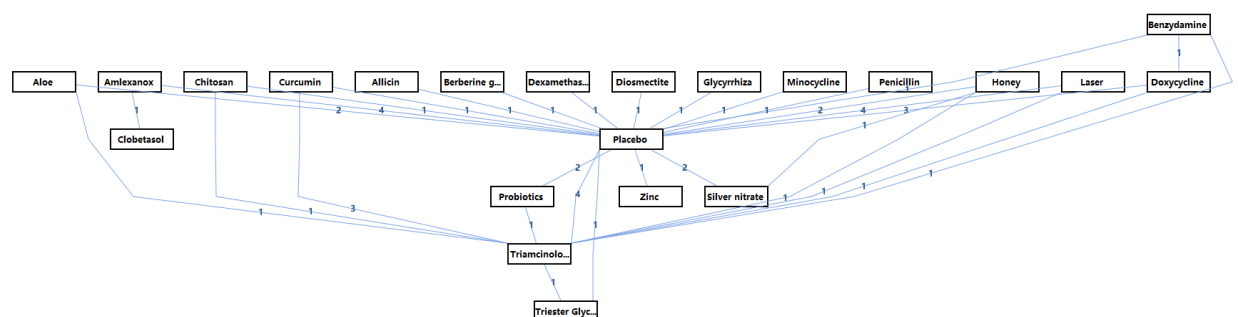
Inconsistency between direct and indirect estimates was estimated in the Node-Splitting Model. When P values is above 0.05 in a comparison, there is evidence of statistical inconsistency.

Name	Direct Effect	Indirect Effect	Overall	P-Value
Aloe , Triamcinolone	-7.97 (-98.59, 62.61)	-29.79 (-102.07, 29.72)	-33.64 (-111.19, 51.35)	0.68
Chitosan , Placebo	15.27 (-37.06, 90.03)	-23.90 (-88.20, 19.82)	3.17 (-58.49, 57.88)	0.29
Chitosan , Triamcinolone	-28.60 (-100.11, -1.28)	-8.02 (-115.88, 79.01)	-48.98 (-129.63, -2.47)	0.64
Curcumin , Placebo	10.33 (-57.81, 126.83)	67.85 (2.94, 136.18)	7.21 (-58.66, 63.56)	0.39
Curcumin , Triamcinolone	-23.70 (-109.95, 28.63)	-37.13 (-103.98, 99.51)	-45.74 (-126.10, 18.07)	0.98
Doxycycline , Triamcinolone	-12.94 (-79.78, 55.58)	-77.96 (-142.00, -23.35)	-71.28 (-146.09, -24.16)	0.11
Honey , Silver nitrate	9.92 (-69.05, 66.54)	10.79 (-60.43, 97.38)	6.08 (-89.64, 105.83)	0.99
Honey , Triamcinolone	-12.53 (-85.19, 71.54)	-33.08 (-122.74, 53.40)	-25.04 (-124.83, 74.14)	0.65
Laser , Placebo	10.72 (-28.23, 76.36)	17.62 (-63.93, 99.16)	18.47 (-19.78, 81.38)	0.98
Laser , Triamcinolone	-16.10 (-79.47, 40.59)	-27.12 (-100.02, 37.27)	-31.34 (-108.31, 38.93)	0.78
Placebo , Probiotics	-27.06 (-84.79, 27.66)	-48.86 (-134.73, 48.69)	-21.16 (-89.50, 30.03)	0.7
Placebo , Triamcinolone	-16.95 (-125.56, 40.66)	-56.37 (-155.35, -1.52)	-52.12 (-117.84, -7.89)	0.57
Probiotics , Triamcinolone	-15.04 (-104.14, 55.00)	-29.65 (-98.36, 100.12)	-29.32 (-112.50, 35.05)	0.94

4. Network structure

Network structure of sensitivity analysis

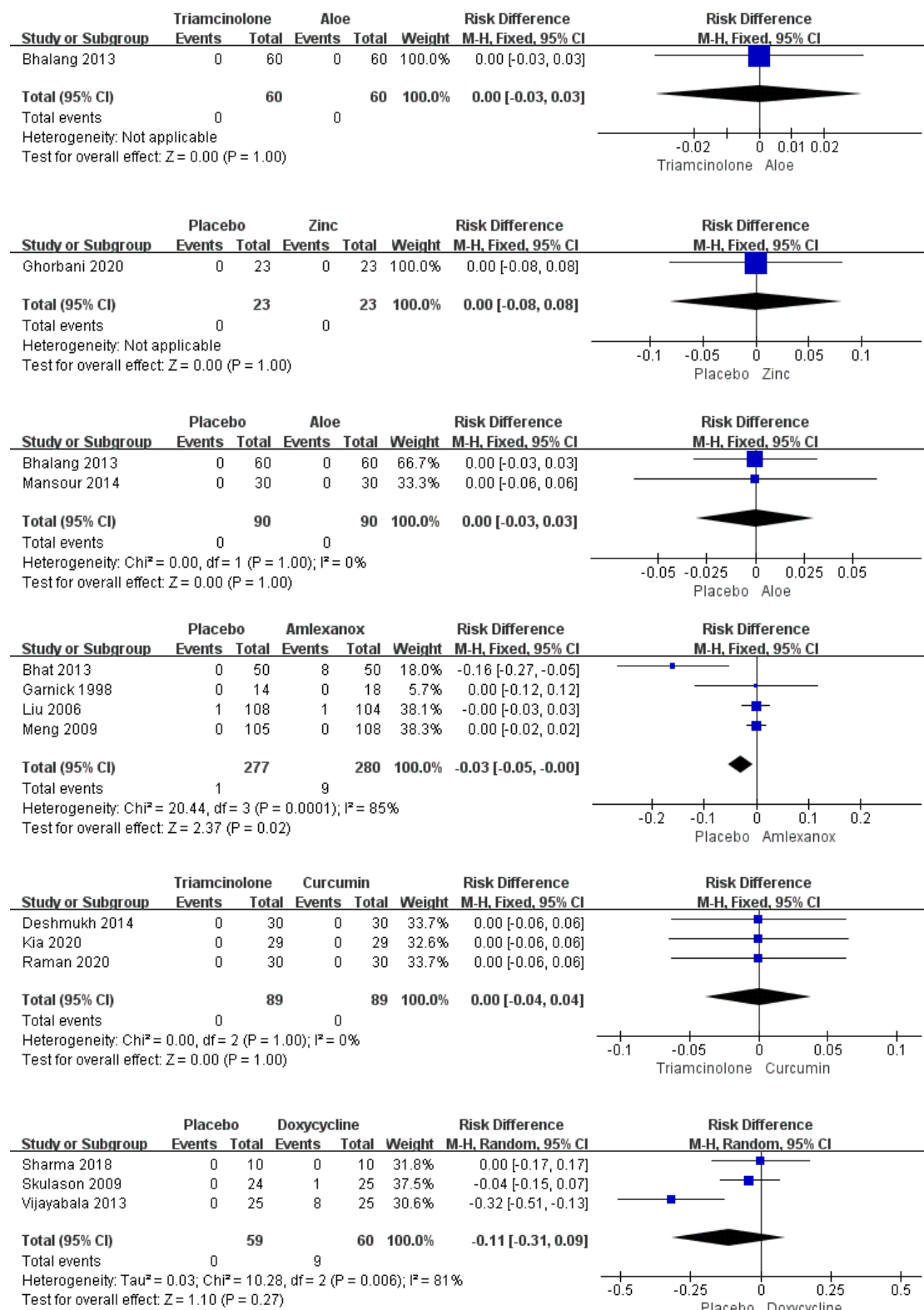
36 RCTs involving 22 local interventions were included in the sensitivity analysis considering the adverse effect.

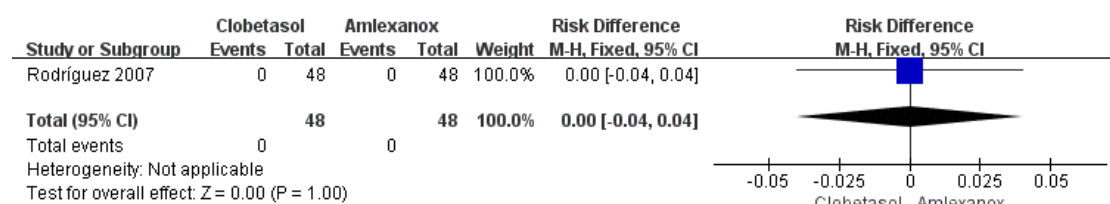
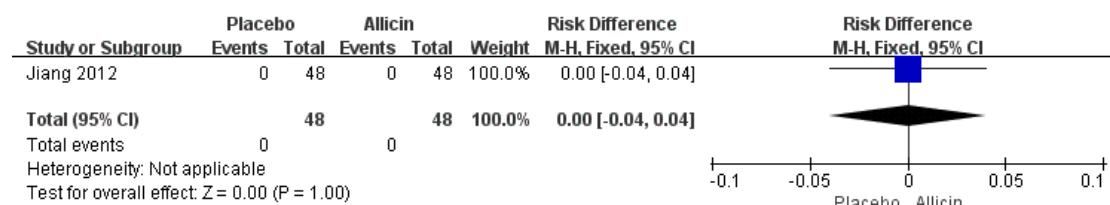
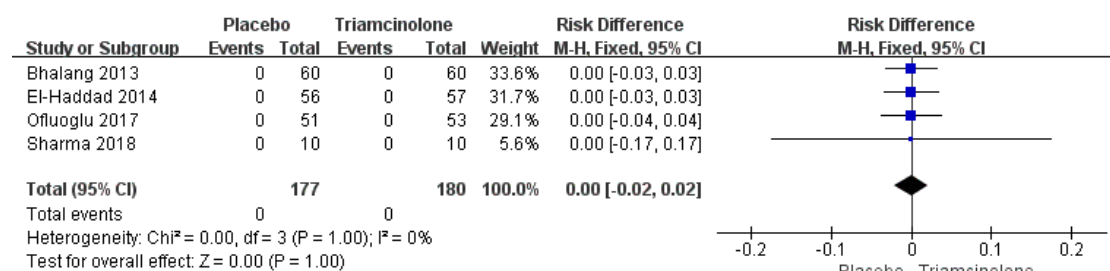
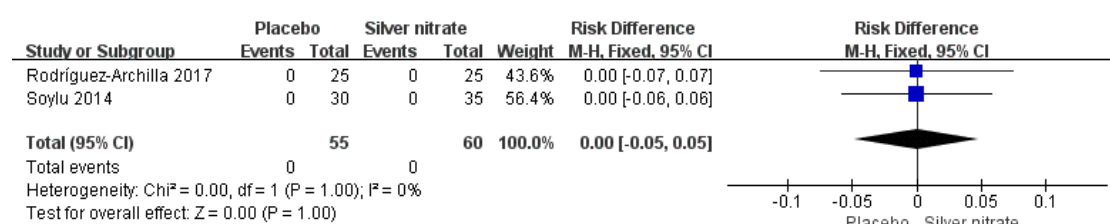
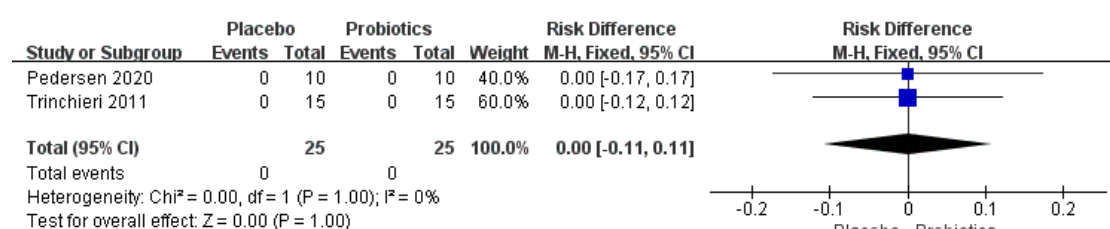
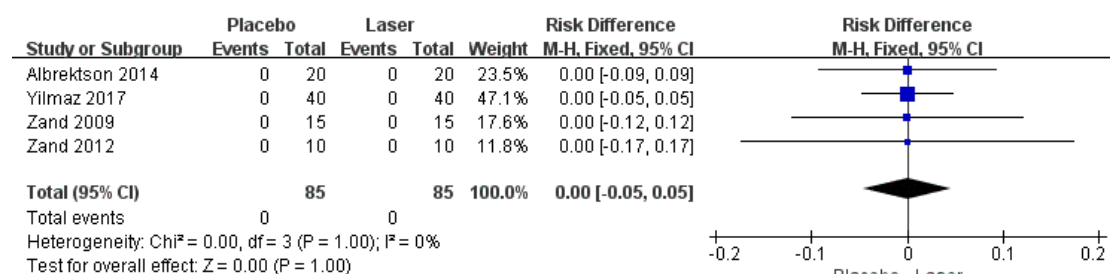
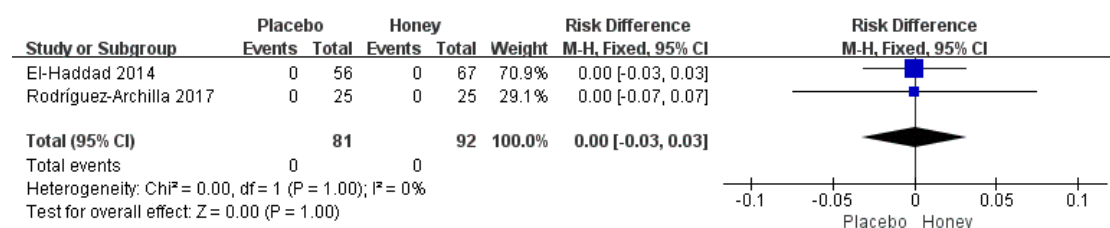


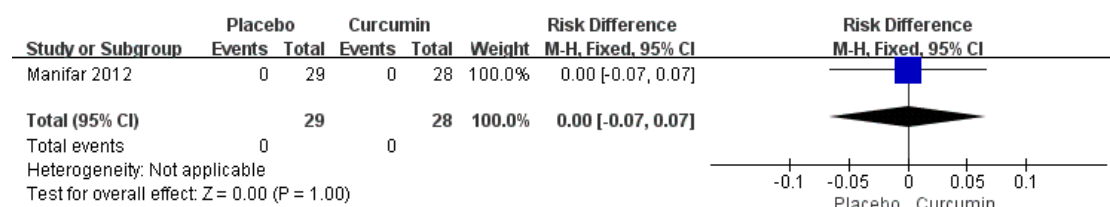
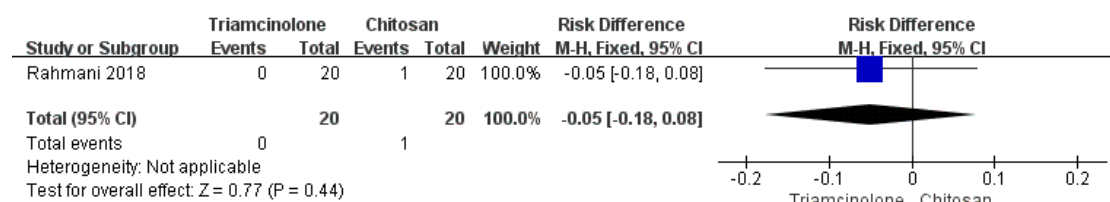
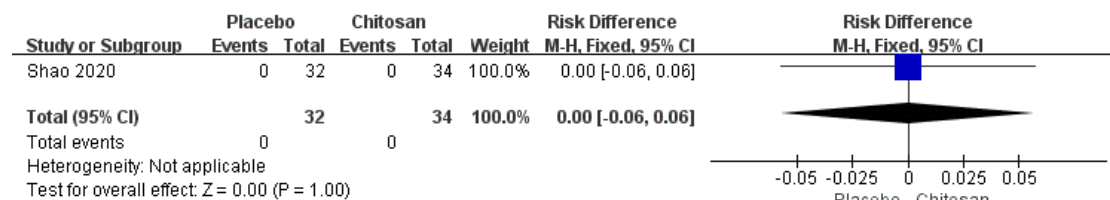
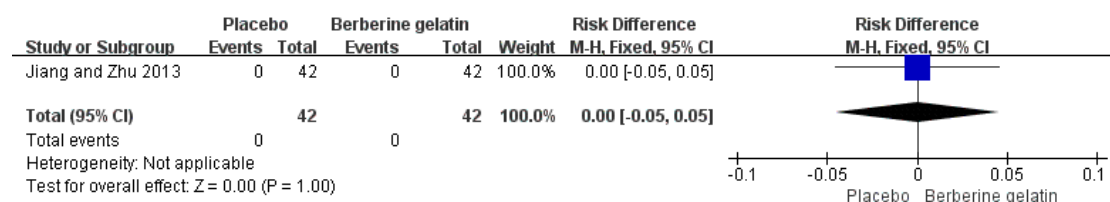
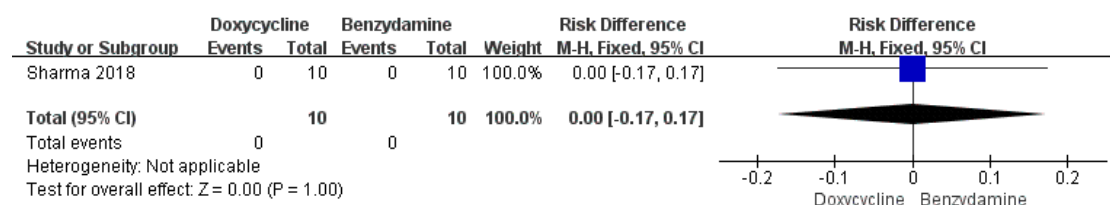
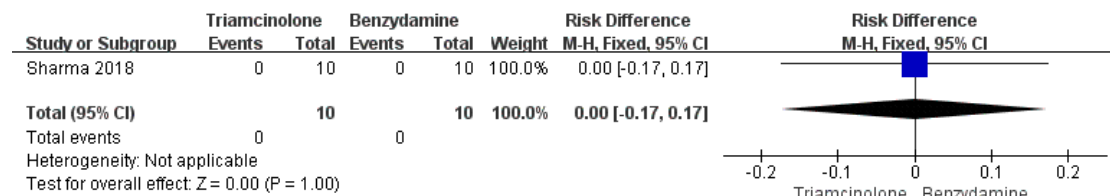
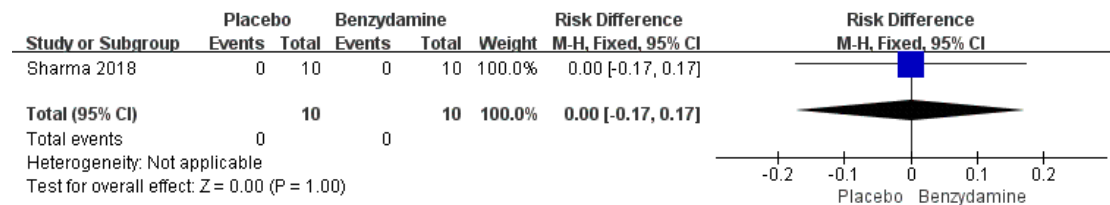
5. Pairwise meta-analysis

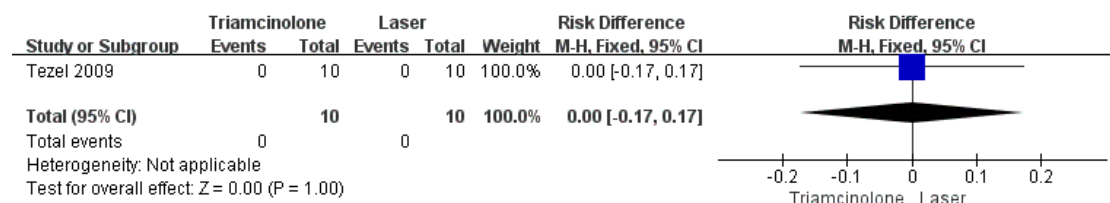
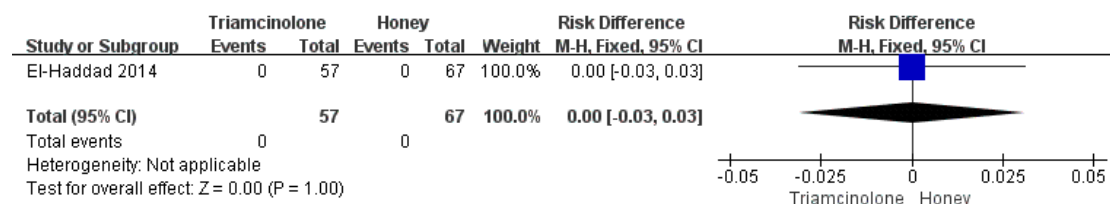
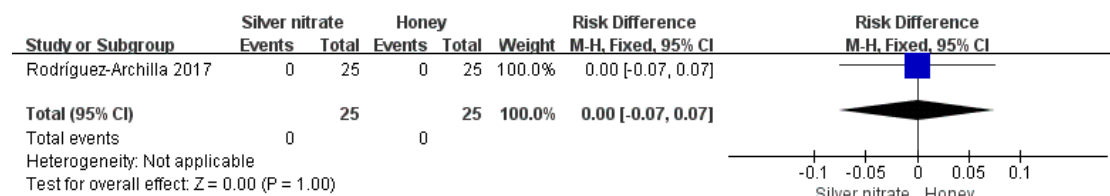
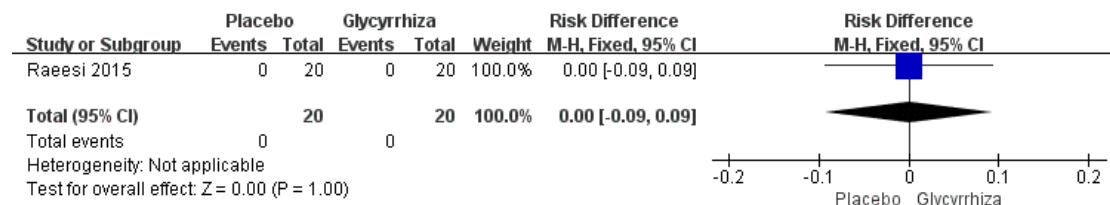
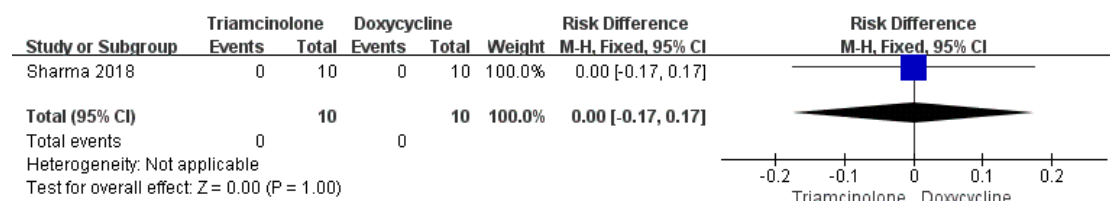
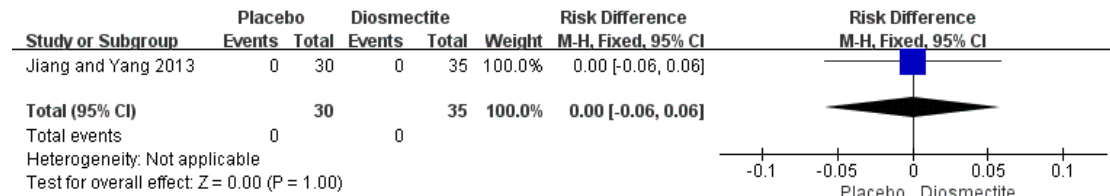
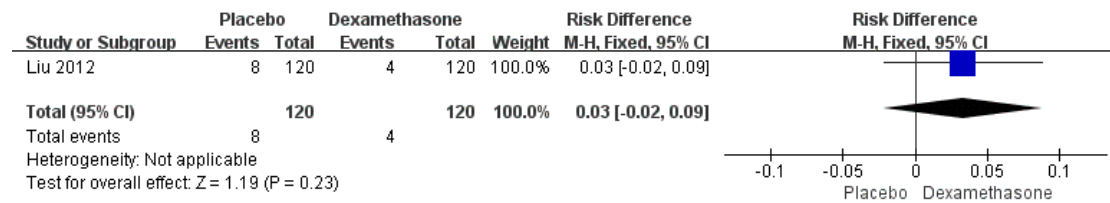
Pairwise meta-analysis of adverse effect

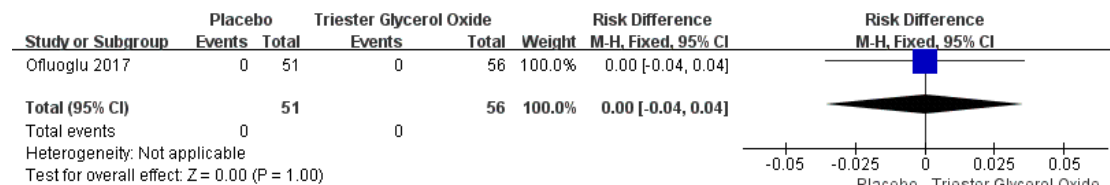
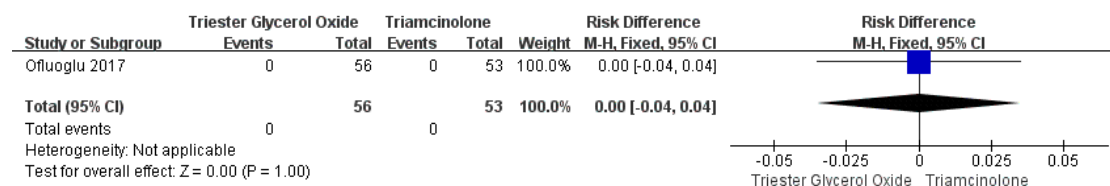
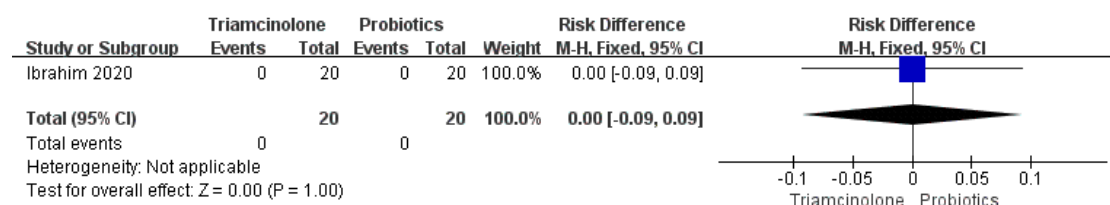
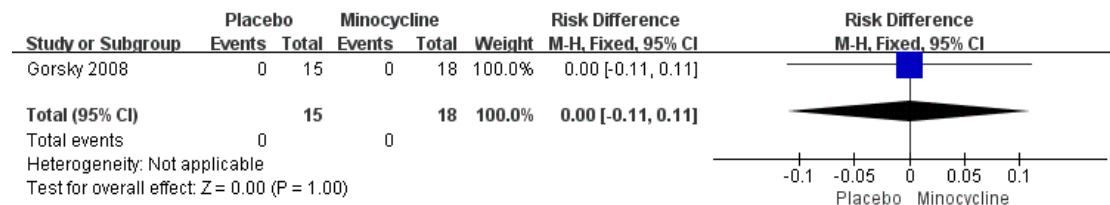
Adverse effect were measured by risk difference (RD) and 95% confidence interval (CI).











Comparison	NO. of included study	Heterogeneity (I ²)	Combined effect [RD (95%CI)]
Allicin vs			
Placebo	1	NA	0.00 (-0.04, 0.04)
Aloe vs			
Placebo	2	0%	0.00 (-0.03,0.03)
Triamcinolone	1	NA	0.00 (-0.03, 0.03)
Amlexanox vs			
Placebo	4	85%	-0.03 (-0.05, -0.00)
Clobetasol	1	NA	0.00 (-0.04, 0.04)
Benzydamine vs			
Placebo	1	NA	0.00 (-0.17, 0.17)
Doxycycline	1	NA	0.00 (-0.17, 0.17)
Triamcinolone	1	NA	0.00 (-0.17, 0.17)
Berberine gelatin vs			
Placebo	1	NA	0.00 (-0.05, 0.05)
Chitosan vs			

Placebo	1	NA	0.00 (-0.06, 0.06)
Triamcinolone	1	NA	-0.05 (-0.18, 0.08)
Curcumin vs			
Triamcinolone	3	0%	0.00 (-0.04, 0.04)
Placebo	1	NA	0.00 (-0.07, 0.07)
Dexamethasone vs			
Placebo	1	NA	0.03 (-0.02, 0.09)
Diosmectite vs			
Placebo	1	NA	0.00 (-0.06, 0.06)
Doxycycline vs			
Placebo	3	81%	-0.11 (-0.31, 0.09)
Triamcinolone	1	NA	0.00 (-0.17, 0.17)
Glycyrrhiza vs			
Placebo	1	NA	0.00 (-0.09, 0.09)
Honey			
Placebo	2	0%	0.00 (-0.03, 0.03)
Silver nitrate	1	NA	0.00 (-0.07, 0.07)
Triamcinolone	1	NA	0.00 (-0.03, 0.03)
Laser vs			
Placebo	4	0%	0.00 (-0.05, 0.05)
Triamcinolone	1	NA	0.00 (-0.17, 0.17)
Minocycline			
Placebo	1	NA	0.00 (-0.11, 0.11)
Penicillin			
Placebo	1	NA	-0.12 (-0.26, 0.02)
Probiotics vs			
Placebo	2	0%	0.00 (-0.11, 0.11)
Triamcinolone	1	NA	0.00 (-0.09, 0.09)
Silver nitrate vs			
Placebo	2	0%	0.00 (-0.05, 0.05)
Triamcinolone vs			
Placebo	4	0%	0.00 (-0.02, 0.02)
Triester Glycerol Oxide	1	NA	0.00 (-0.04, 0.04)
Triester Glycerol Oxide vs			
Placebo	1	NA	0.00 (-0.04, 0.04)
Zinc vs			
Placebo	1	NA	0.00 (-0.08, 0.08)

RD, risk difference; CI, confidence interval; NA, not applicable.

Hematologic values

4 RCTs included in the study reported on the blood levels of the intervention drug or blood laboratory findings.

Interventions	Total	Hematologic values
Dexamethasone	114	Blood level<0.502 ng/mL
Aloe	60	No significant differences between the blood test values before and after 7 days of application
Allicin	48	None of the hematologic values at day 6 were considered clinically abnormal
Amlexanox	108	None of the hematologic values were considered clinically abnormal

Chapter S5 Relapse

4 included articles described the role of interventions on RAS recurrence. Because different criteria were used for evaluation, only descriptive studies were performed.

Interventions	Total	Relapse
Probiotics	Adult Group: 30 Children group :30	Adult Group (Outbreak frequency/6 months) Probiotics: 3.33 (0.64) Placebo: 3.65 (0.32) Children group (Outbreak frequency/6 months) Probiotics: 2.65 (0.54) Placebo: 3.65 (0.62)
Chlorhexidine	38	Total ulcer numbers (6 weeks): Chlorhexidine: 7.54±6.52 Placebo: 8.32±5.52 Interval between ulcers (6 weeks): Chlorhexidine: 7.26±8.61 Placebo:3.86±2.05
Benzydamine	18	Number of new ulcers (3 months) Benzydamine: 7 (2-33) Placebo: 8 (2-20)
Chlorhexidine	18	Number of new ulcers (3 months) Chlorhexidine: 6.5 (3-20) Placebo: 8 (2-20)
Triamcinolone	26	No. of new ulcers (8 months) Placebo: 7.81 Triamcinolone acetonide in orabase : 7.00 Triamcinolone acetonide in watery base : 6.42

FigureS1 Risk of bias graph

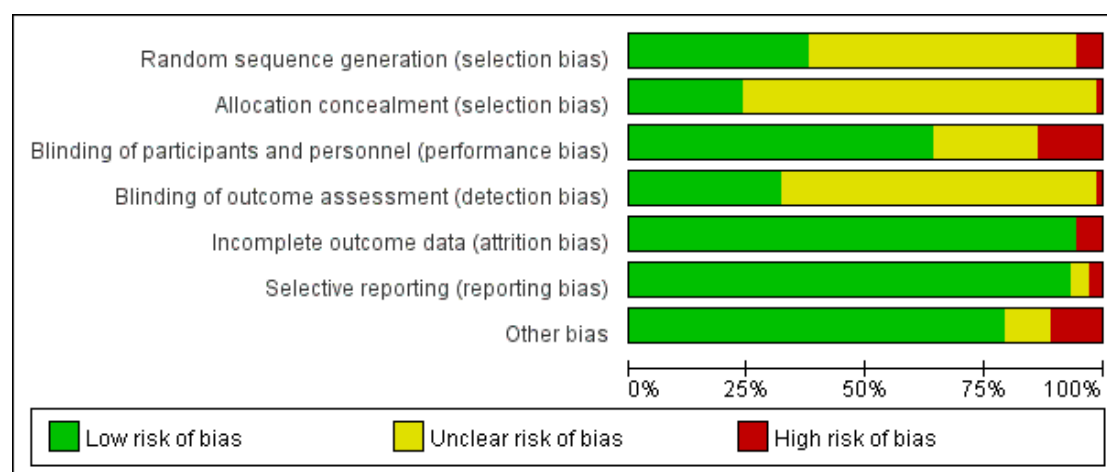


Figure S2 Risk of bias summary for individual studies

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Abbas 2016	?	?	?	?	?	?	?
Addy 1974	?	?	?	?	?	?	?
Addy 1976	?	?	?	?	?	?	?
Aggarwal 2014	?	?	?	?	?	?	?
Aggour 2021	?	?	?	?	?	?	?
Albrektsson 2014	?	?	?	?	?	?	?
Andishe Tadbir 2015	?	?	?	?	?	?	?
Arlian 2006	?	?	?	?	?	?	?
Babaee 2012	?	?	?	?	?	?	?
Bardellini 2020	?	?	?	?	?	?	?
Bhalang 2013	?	?	?	?	?	?	?
Bhat 2013	?	?	?	?	?	?	?
Browne 1968	?	?	?	?	?	?	?
Deshmukh 2014	?	?	?	?	?	?	?
El-Haddad 2014	?	?	?	?	?	?	?
El-Wakeel 2019	?	?	?	?	?	?	?
Galal 2012	?	?	?	?	?	?	?
Garnick 1996	?	?	?	?	?	?	?
Ghorbani 2020	?	?	?	?	?	?	?
Gorsky 2008	?	?	?	?	?	?	?
Greer Jr 1993	?	?	?	?	?	?	?
Halboub 2019	?	?	?	?	?	?	?
Halim 2013	?	?	?	?	?	?	?
Hunter 1987	?	?	?	?	?	?	?
Huo 2021	?	?	?	?	?	?	?
Ibrahim 2020	?	?	?	?	?	?	?
Jiang 2012	?	?	?	?	?	?	?
Jiang and Yang 2013	?	?	?	?	?	?	?
Jiang and Zhu 2013	?	?	?	?	?	?	?
Kavita 2020	?	?	?	?	?	?	?
Khandwala 1997	?	?	?	?	?	?	?
Kia 2020	?	?	?	?	?	?	?
Liu 2006	?	?	?	?	?	?	?
Liu 2012	?	?	?	?	?	?	?
Manifar 2012	?	?	?	?	?	?	?
Manisour 2014	?	?	?	?	?	?	?
Matthews 1987	?	?	?	?	?	?	?
Meng 2009	?	?	?	?	?	?	?
Miles 1993	?	?	?	?	?	?	?
Moghadamnia 2009	?	?	?	?	?	?	?
Nasry 2016	?	?	?	?	?	?	?
Nirmala 2019	?	?	?	?	?	?	?
Offuogu 2017	?	?	?	?	?	?	?
Owlia 2020	?	?	?	?	?	?	?
Pandya 2017	?	?	?	?	?	?	?
Pedersen 2020	?	?	?	?	?	?	?
Prasad 2013	?	?	?	?	?	?	?
Raeesi 2015	?	?	?	?	?	?	?
Rahmani 2018	?	?	?	?	?	?	?
Raman 2020	?	?	?	?	?	?	?
Rodriguez 2007	?	?	?	?	?	?	?
Rodriguez-Archilla 2017	?	?	?	?	?	?	?
Sattayut 2013	?	?	?	?	?	?	?
Seyedi 2020	?	?	?	?	?	?	?
Shao 2020	?	?	?	?	?	?	?
Sharma 2018	?	?	?	?	?	?	?
Shi 2020	?	?	?	?	?	?	?
Skulason 2009	?	?	?	?	?	?	?
Soliman 2019	?	?	?	?	?	?	?
Soylu 2014	?	?	?	?	?	?	?
Soylu and Okuyucu 2014	?	?	?	?	?	?	?
Tavangar 2019	?	?	?	?	?	?	?
Taylor 1993	?	?	?	?	?	?	?
Tezel 2009	?	?	?	?	?	?	?
Tinchien 2011	?	?	?	?	?	?	?
Vijayabala 2013	?	?	?	?	?	?	?
Yeoman 1978	?	?	?	?	?	?	?
Yilmaz 2017	?	?	?	?	?	?	?
Ylikorhola 1997	?	?	?	?	?	?	?
Zand 2009	?	?	?	?	?	?	?
Zand 2012	?	?	?	?	?	?	?
Zeni 2017	?	?	?	?	?	?	?

Funnel plots

Figure S3 Funnel plot for healing effect

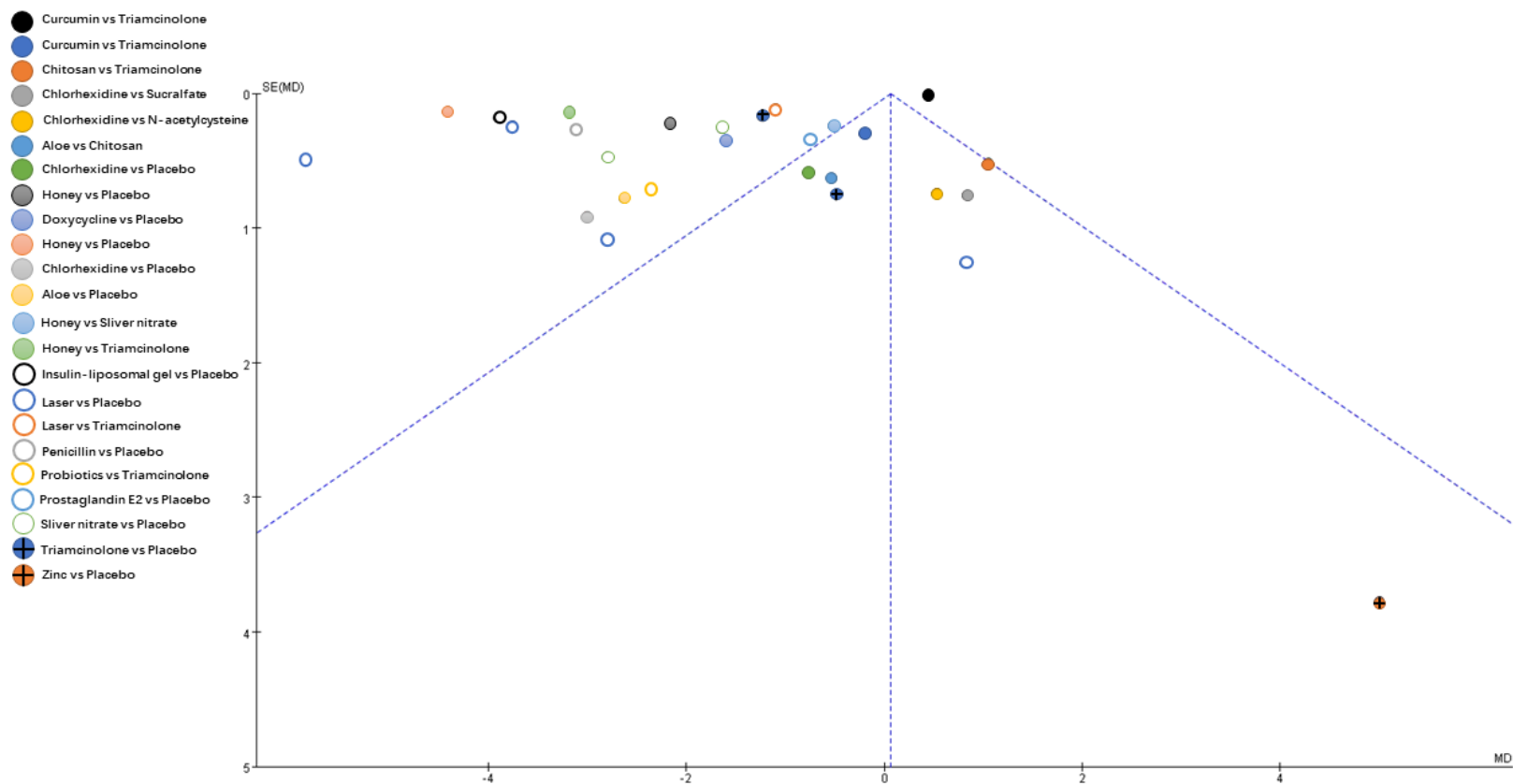


Figure S4 Funnel plot for size-reducing effect

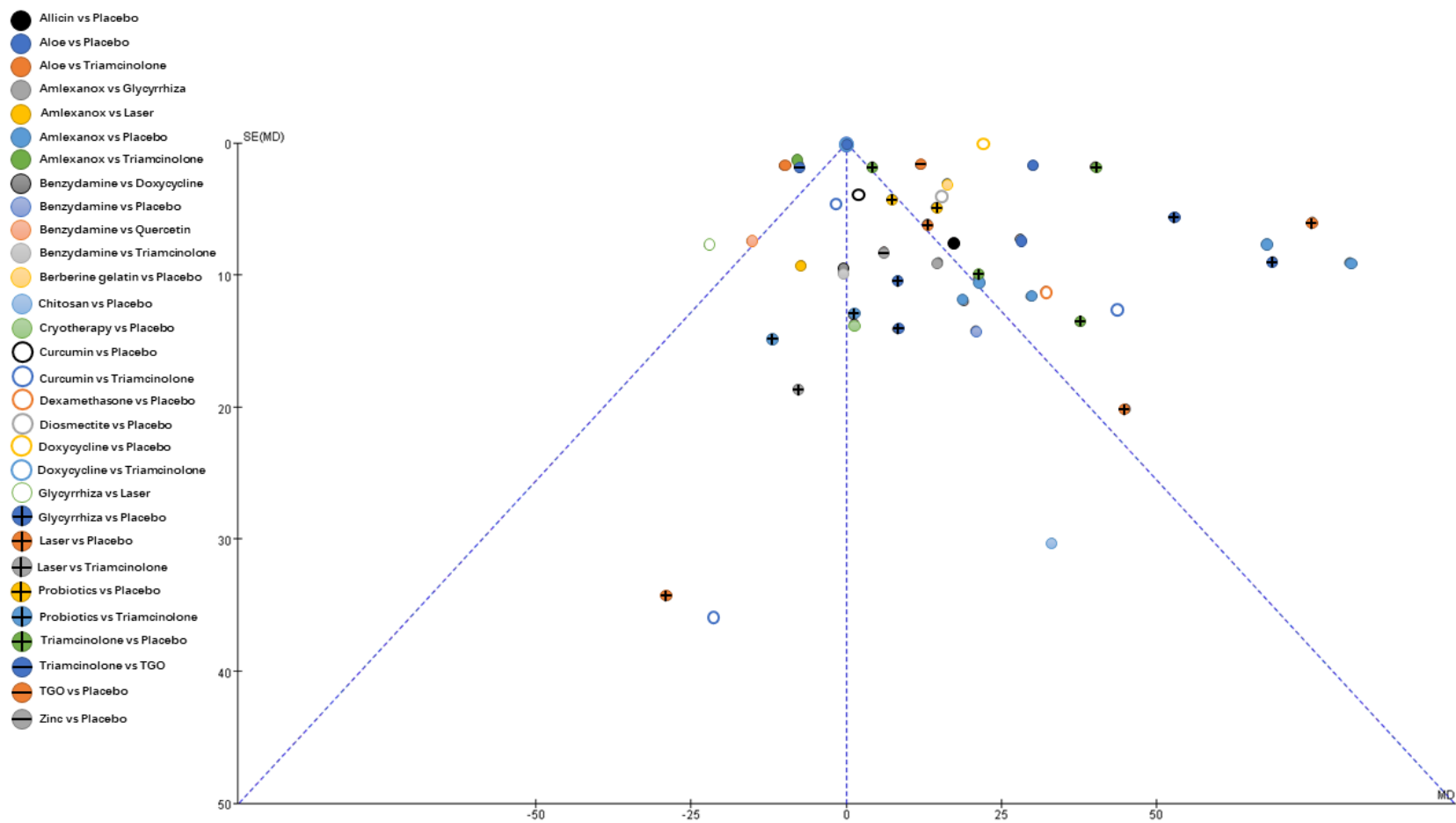


Figure S5 Funnel plot for symptom-reducing effect

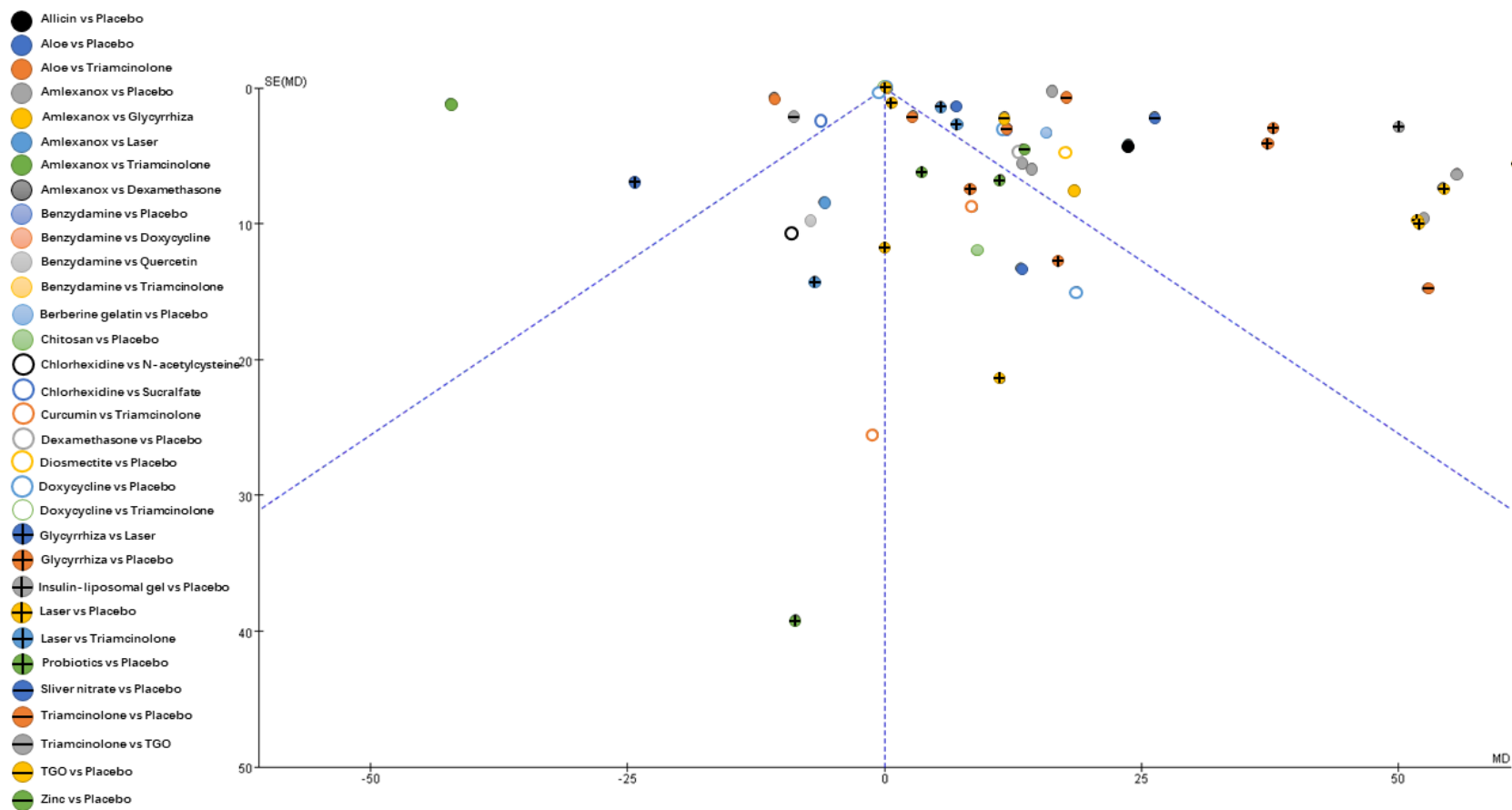


Figure S6 Funnel plot for adverse effect

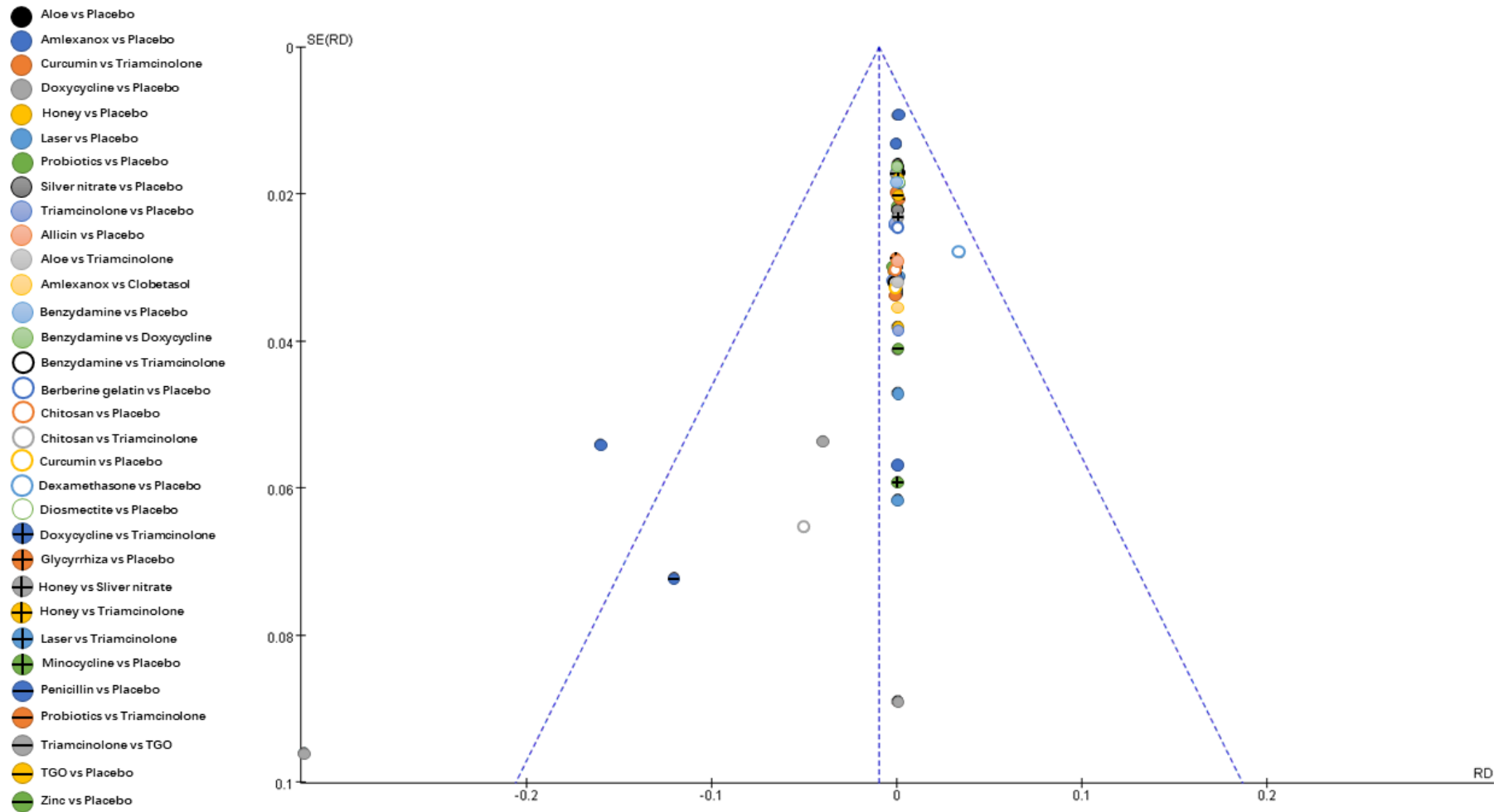
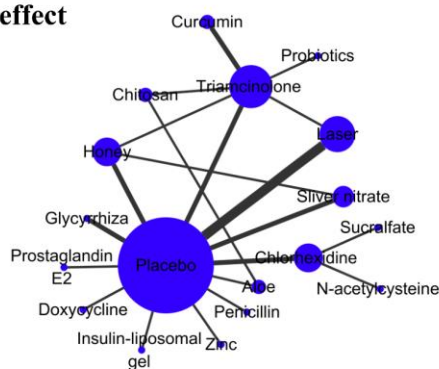


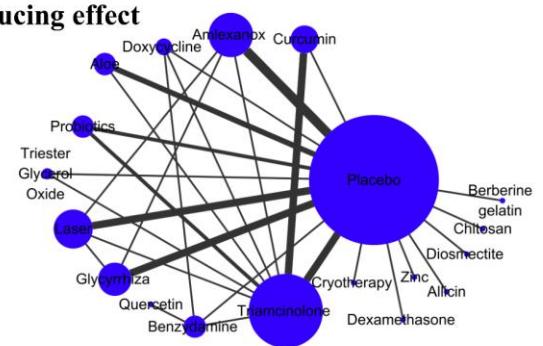
Figure S7 Network structure of sensitivity analysis

Network structure of sensitivity analysis. 69 RCTs were considered in sensitivity analysis for the four outcomes. (a) Healing effect, data from 26 RCTs (1306 participants) with 20 pairwise comparisons among 18 interventions were pooled. (b) Size-reducing effect, data from 37 RCTs (3587 participants) with 30 pairwise comparisons among 19 interventions were pooled. (c) Symptom-reducing effect, data from 46 RCTs (4020 participants) with 32 pairwise comparisons among 23 interventions were pooled. (d) Adverse effect, data from 36 RCTs (2787 participants) with 32 pairwise comparisons among 22 interventions were pooled. Nodes and edges are weighted according to volume of studies including that treatment or comparison.

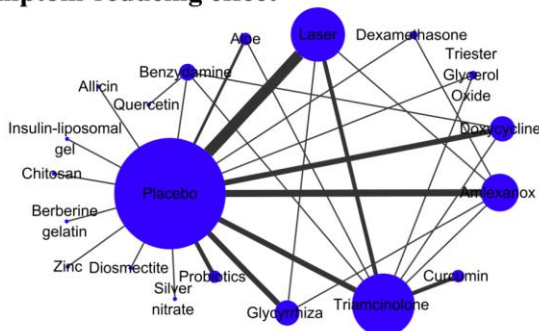
(a). Healing effect



(b). Size-reducing effect



(c). Symptom-reducing effect



(d). Adverse effect

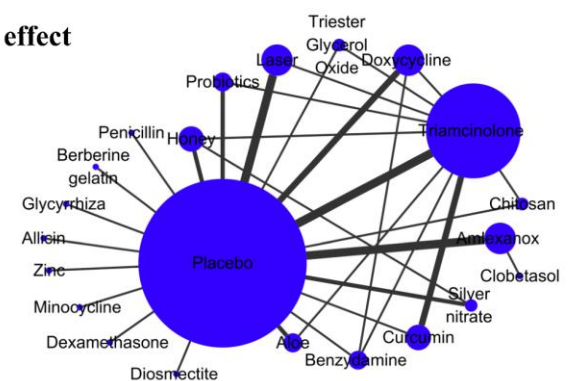


Table S11 PRISMA NMA Checklist of Items

Section/Topic	Item #	Checklist Item	Reported on Page #
TITLE			
Title	1	Identify the report as a systematic review <i>incorporating a network meta-analysis (or related form of meta-analysis)</i> .	1
ABSTRACT			
Structured summary	2	Provide a structured summary including: Background, Methods, Results, Discussion/Conclusions, and Other.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known, <i>including mention of why a network meta-analysis has been conducted</i> .	3-4
Objectives	4	Provide an explicit statement of questions being addressed, with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	3-4
METHODS			
Protocol and registration	5	Indicate whether a review protocol exists and if and where it can be accessed (e.g., Web address); and, if available, provide registration information, including registration number.	4
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	4
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	4
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	Table S1-S5
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	Fig. 1
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate)	4-6

		and any processes for obtaining and confirming data from investigators.	
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	4-6
Geometry of the network	S1	Describe methods used to explore the geometry of the treatment network under study and potential biases related to it. This should include how the evidence base has been graphically summarized for presentation, and what characteristics were compiled and used to describe the evidence base to readers.	5
Risk of bias within individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	5
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	5
Planned methods of analysis	14	Describe the methods of handling data and combining results of studies for each network meta-analysis. This should include, but not be limited to: <ul style="list-style-type: none"> • <i>Handling of multi-arm trials;</i> • <i>Selection of variance structure;</i> • <i>Selection of prior distributions in Bayesian analyses; and</i> • <i>Assessment of model fit.</i> 	5
Assessment of Inconsistency	S2	Describe the statistical methods used to evaluate the agreement of direct and indirect evidence in the treatment network(s) studied. Describe efforts taken to address its presence when found.	5
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	5
Additional analyses	16	Describe methods of additional analyses if done, indicating which were pre-specified. This may include, but not be limited to, the following: <ul style="list-style-type: none"> • Sensitivity or subgroup analyses; • Meta-regression analyses; • <i>Alternative formulations of the treatment network; and</i> • <i>Use of alternative prior distributions for Bayesian analyses (if applicable).</i> 	5

RESULTS†			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	6
Presentation of network structure	S3	Provide a network graph of the included studies to enable visualization of the geometry of the treatment network.	Fig. 2
Summary of network geometry	S4	Provide a brief overview of characteristics of the treatment network. This may include commentary on the abundance of trials and randomized patients for the different interventions and pairwise comparisons in the network, gaps of evidence in the treatment network, and potential biases reflected by the network structure.	7-9
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	Table S4
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment.	Figure S1-S2
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: 1) simple summary data for each intervention group, and 2) effect estimates and confidence intervals.	Table S6
Synthesis of results	21	Present results of each meta-analysis done, including confidence/credible intervals. If additional summary measures were explored (such as treatment rankings), these should also be presented.	7-8
Exploration for inconsistency	S5	Describe results from investigations of inconsistency. This may include such information as measures of model fit to compare consistency and inconsistency models, <i>P</i> values from statistical tests, or summary of inconsistency estimates from different parts of the treatment network.	11
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies for the evidence base being studied.	8
Results of additional analyses	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression analyses, <i>alternative network geometries studied</i> , <i>alternative choice of prior distributions for</i>	8-9

		<i>Bayesian analyses, and so forth).</i>	
DISCUSSION			
Summary of evidence	24	Summarize the main findings, including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy-makers).	15-17
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review level (e.g., incomplete retrieval of identified research, reporting bias). <i>Comment on the validity of the assumptions, such as transitivity and consistency. Comment on any concerns regarding network geometry (e.g., avoidance of certain comparisons).</i>	17
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	17
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review. This should also include information regarding whether funding has been received from manufacturers of treatments in the network and/or whether some of the authors are content experts with professional conflicts of interest that could affect use of treatments in the network.	17