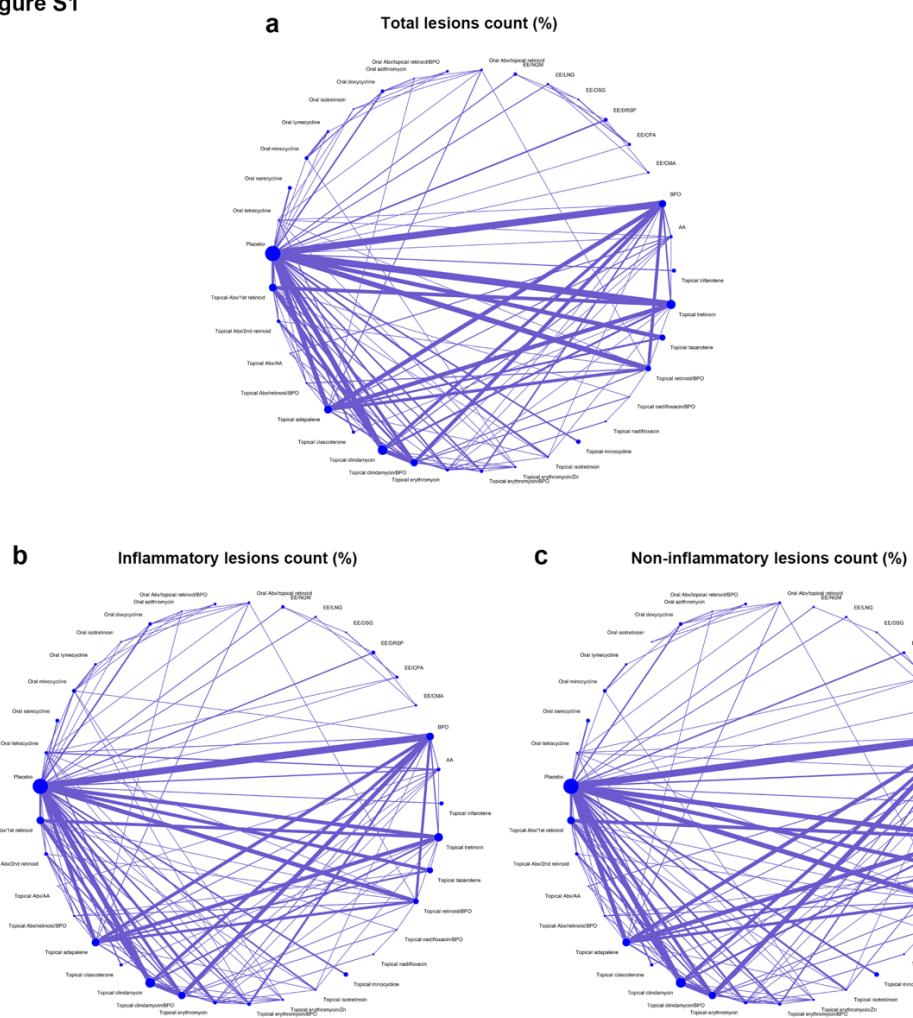


Supplemental materials for:

Huang C, Chang I, Bolick N, et al. Comparative efficacy of pharmacological treatments for acne vulgaris: a network meta-analysis of 221 randomized controlled trials. *Ann Fam Med*. 2023;21(4):358-369.

Supplemental Figure 1. Network diagrams of the percentage reduction in lesions count.

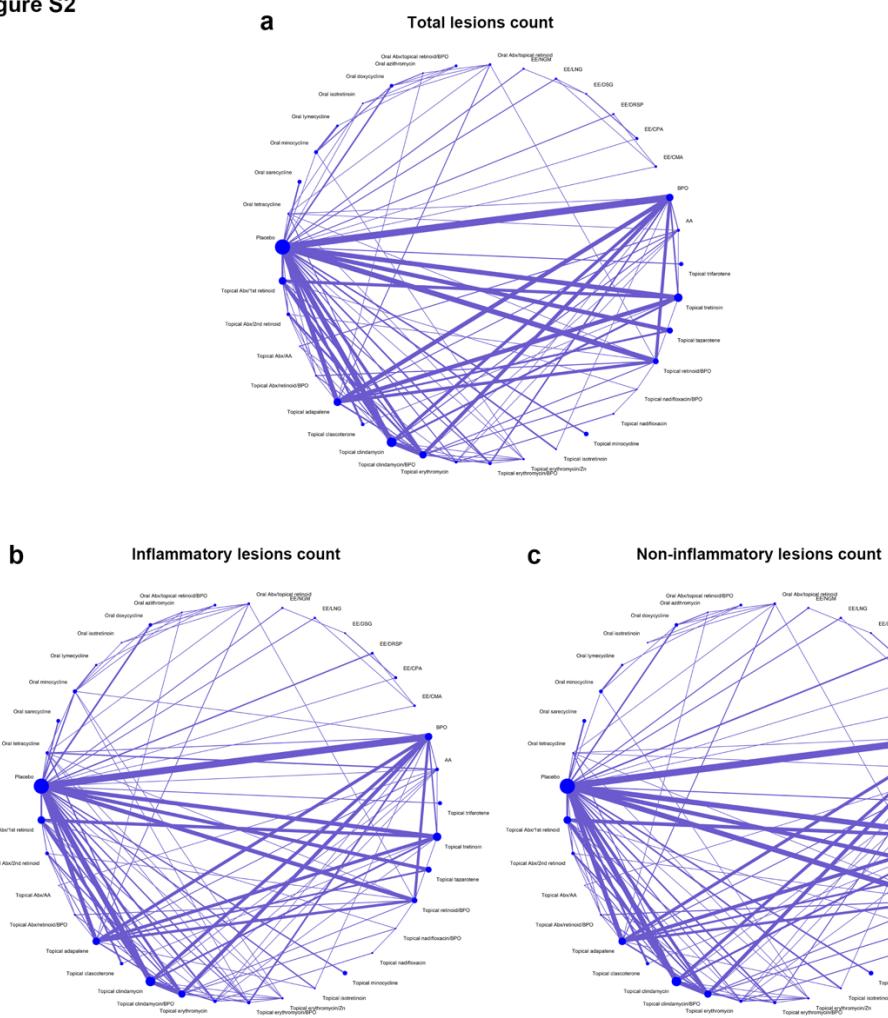
Figure S1



(a) Total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions count. The size of each circle is proportional to the number of randomly assigned patients and the width of the lines corresponds to the number of trials.

Supplemental Figure 2. Network diagrams of the absolute reduction in lesions count.

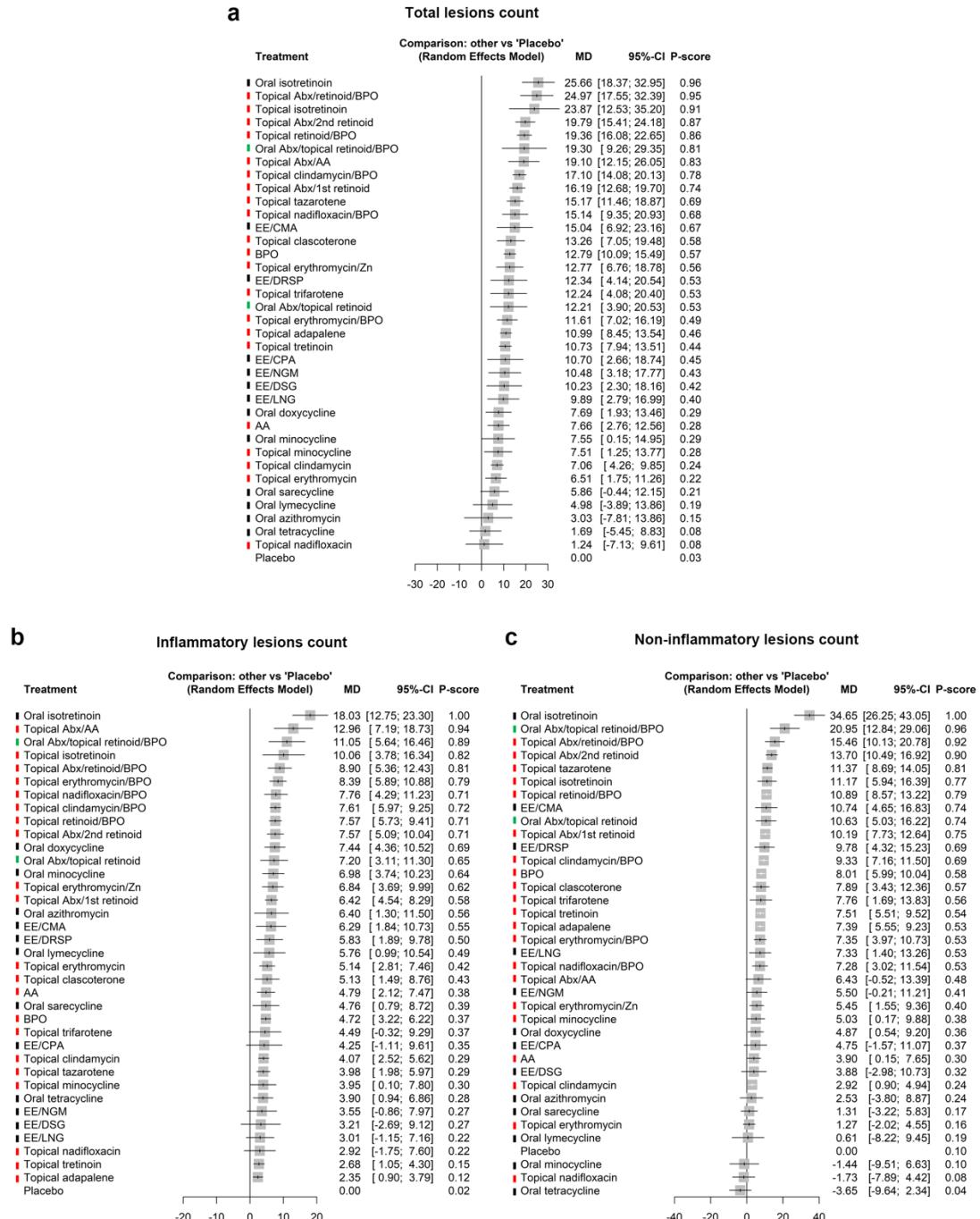
Figure S2



(a) Total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions count. The size of each circle is proportional to the number of randomly assigned patients and the width of the lines corresponds to the number of trials.

Supplemental Figure 3. Estimates of the absolute reduction in lesions count for different treatments compared with placebo.

Figure S3

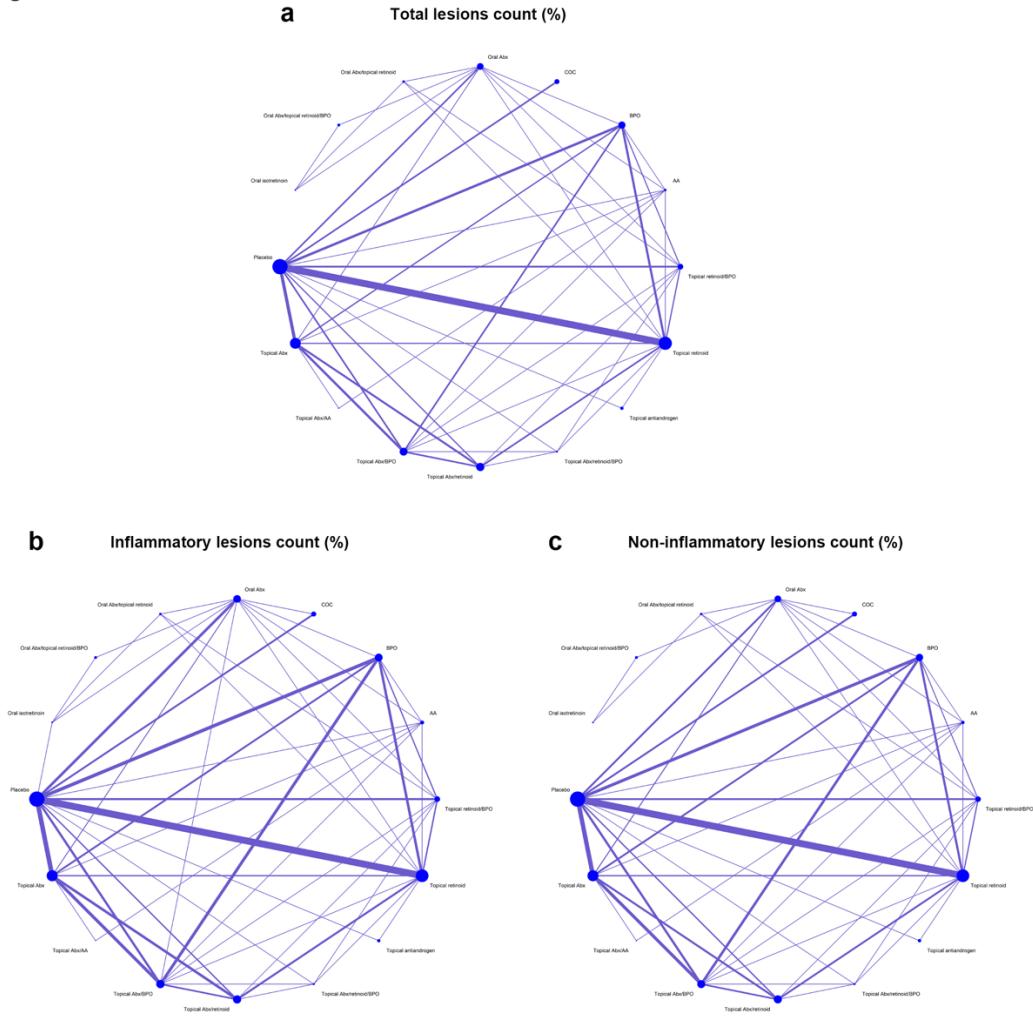


Forest plots of mean difference (MD) and 95% confidence interval (CI) in absolute reduction in

(a) total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions compared with placebo. Black: oral treatments; red: topical treatments; green: combined oral and topical treatments.

Supplemental Figure 4. Network diagrams of the percentage reduction in lesions count with simplified treatment nodes.

Figure S4

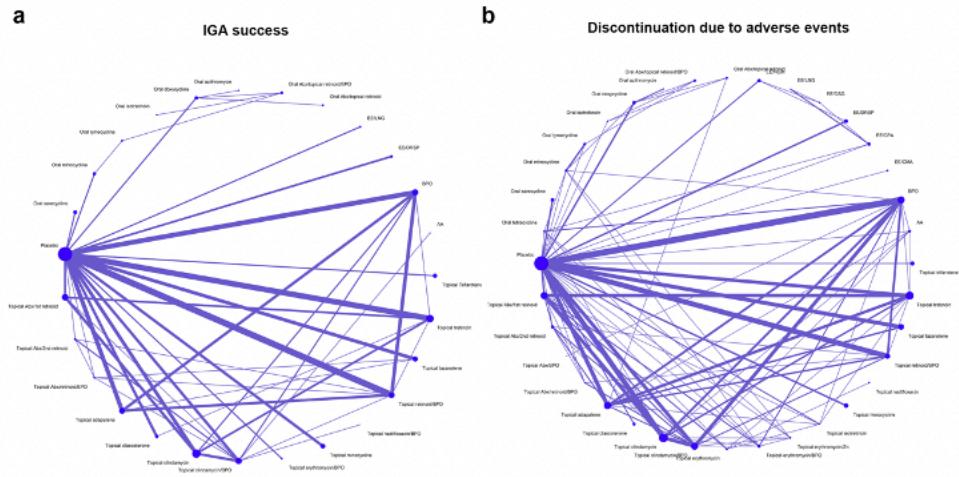


(a) Total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions count. The size of each circle is proportional to the number of randomly assigned patients and the

width of the lines corresponds to the number of trials.

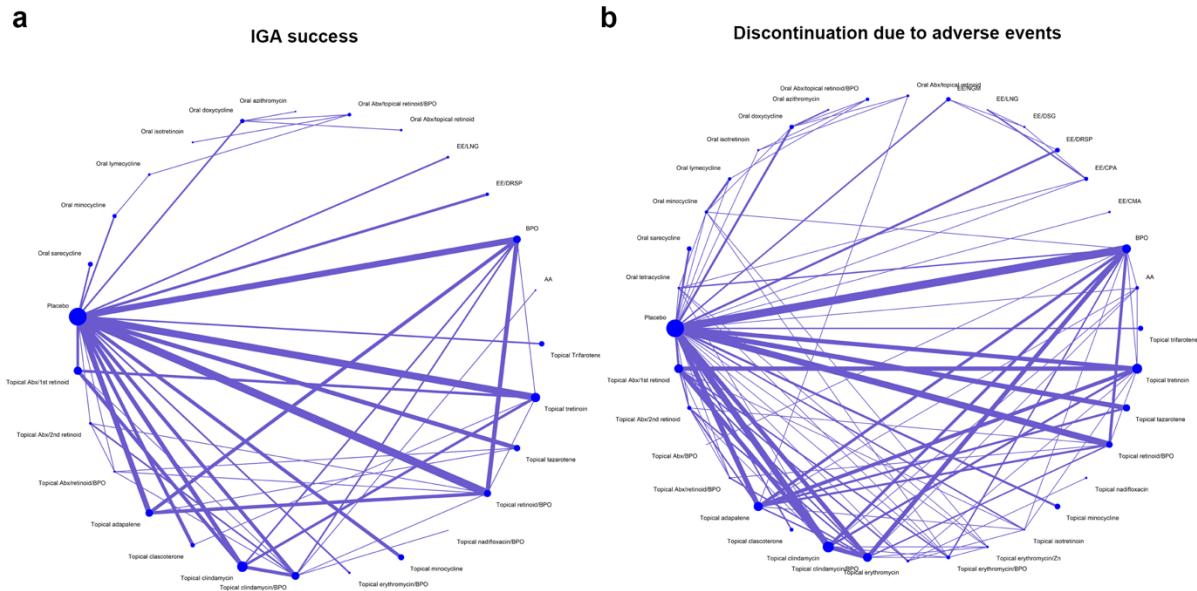
Supplemental Figure 5. Network diagrams of the treatment success and adverse events.

Figure S5

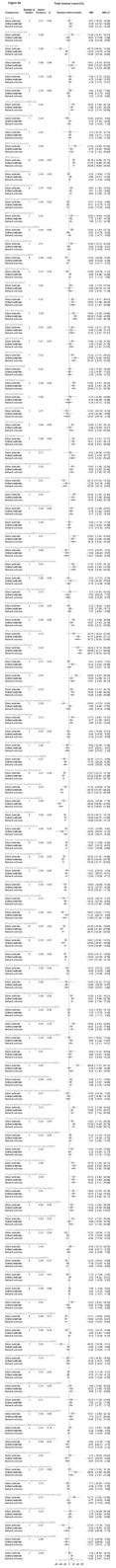


(a) treatment success measured by Investigator's Global Assessment (IGA), and **(b)** discontinuation due to adverse events. The size of each circle is proportional to the number of randomly assigned patients and the width of the lines corresponds to the number of trials.

Figure S5



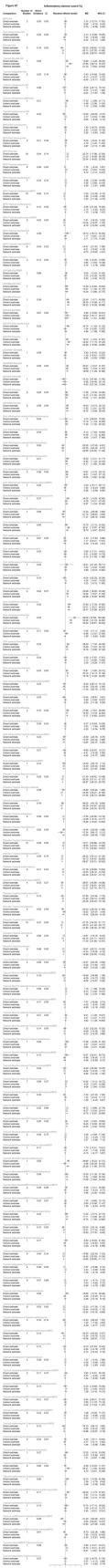
Supplemental Figure 6. Node-splitting analyses of inconsistency in the network of percentage reduction in total lesions count.



The direct, indirect and network estimates of each

treatment comparison, along with the weight of direct estimate.

Supplemental Figure 7. Node-splitting analyses of inconsistency in the network of percentage reduction in inflammatory lesions count.

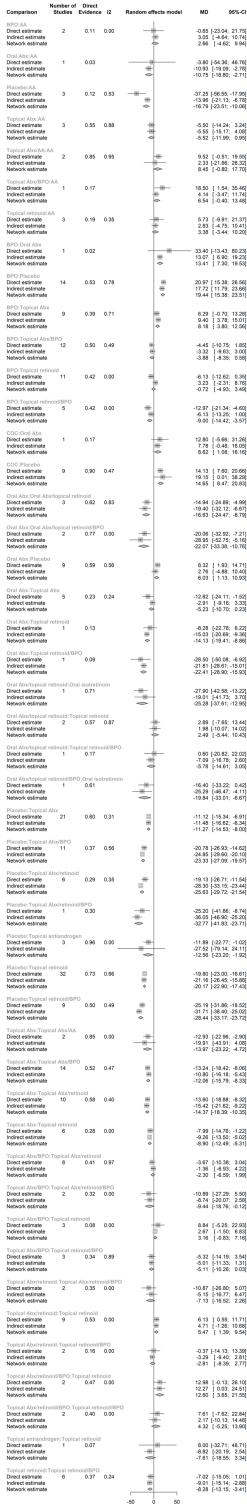


The direct, indirect and network estimates of each treatment

comparison, along with the weight of direct estimate.

Supplemental Figure 8. Node-splitting analyses of inconsistency in the network of percentage reduction in non-inflammatory lesions count.

Figure S8 Non-inflammatory lesions count (%)



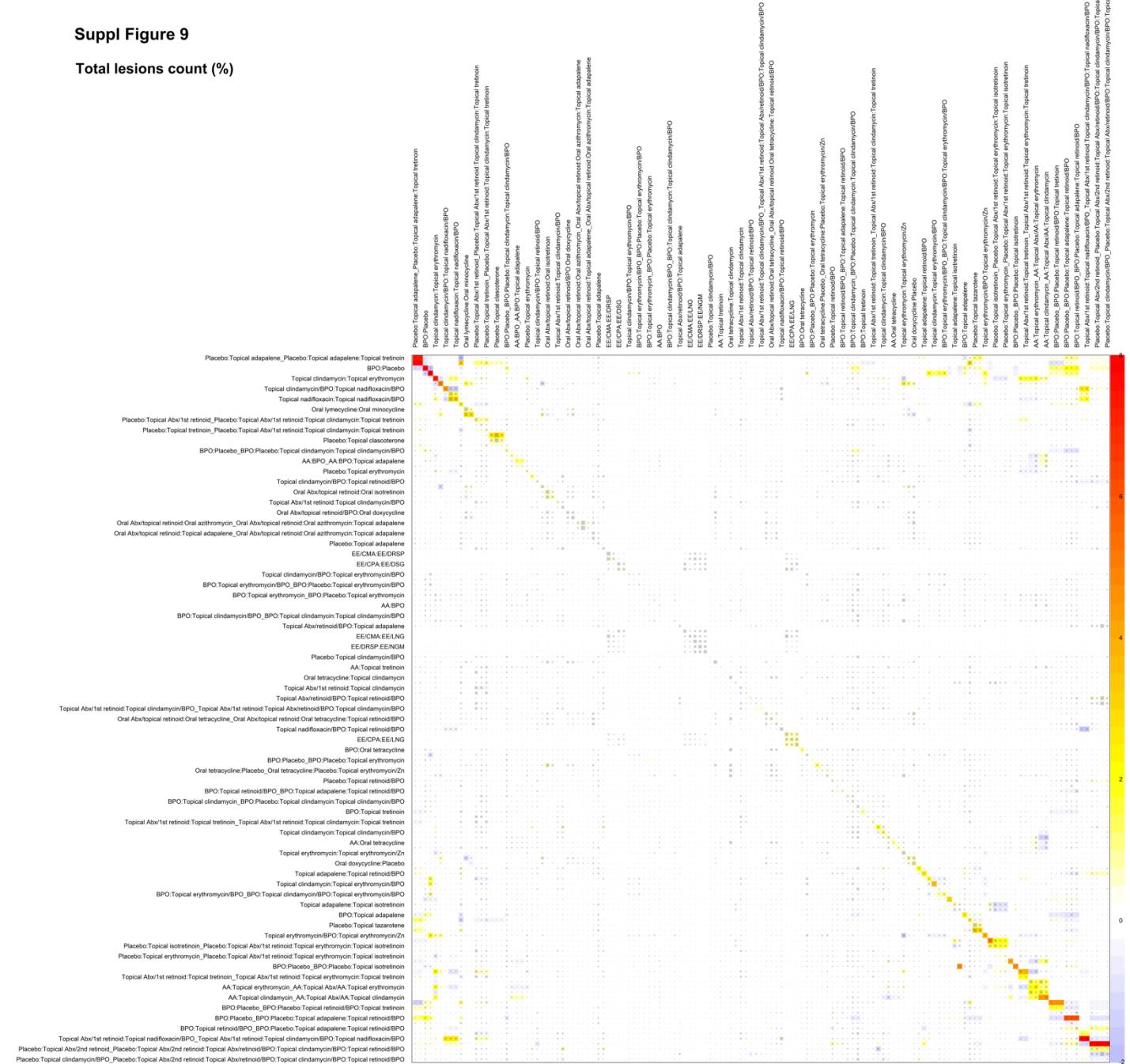
The direct, indirect

and network estimates of each treatment comparison, along with the weight of direct estimate.

Supplemental Figure 9. Net heat plot displaying hot spots of inconsistency in the network analysis of percentage reduction in total lesions count.

Suppl Figure 9

Total lesions count (%)



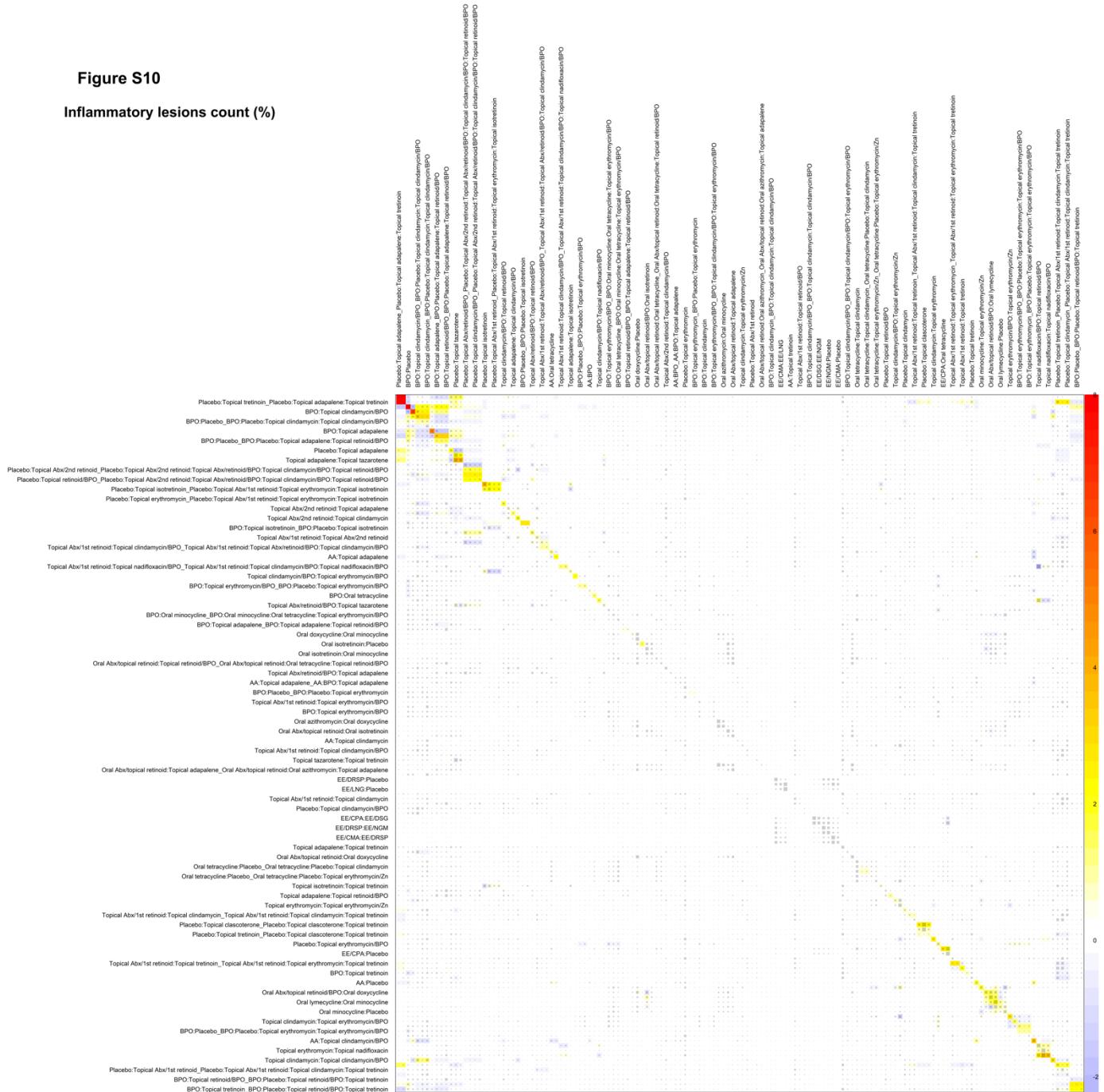
The area of the gray squares represents the contribution of the direct estimate in design d (shown in the column) to the network estimate in design d' (shown in the row). The colors are correlated with the change in inconsistency between direct and indirect evidence in design d' (shown in the row) after detaching the effect of design d (shown in the column). Blue colors indicate an increase and red colors indicate a decrease (the deeper the intensity of the color,

the stronger the change).

Supplemental Figure 10. Net heat plot displaying hot spots of inconsistency in the network analysis of percentage reduction in inflammatory lesions count.

Figure S10

Inflammatory lesions count (%)



The area of the gray squares represents the contribution of the direct estimate in design d (shown in the column) to the network estimate in design d' (shown in the row). The colors are correlated with the change in inconsistency between direct and indirect evidence in design d' (shown in the row) after detaching the effect of design d (shown in the column). Blue colors indicate an increase and red colors indicate a decrease (the deeper the intensity of the color, the stronger the change).

Supplemental Figure 11. Net heat plot displaying hot spots of inconsistency in the network analysis of percentage reduction in non-inflammatory lesions count.

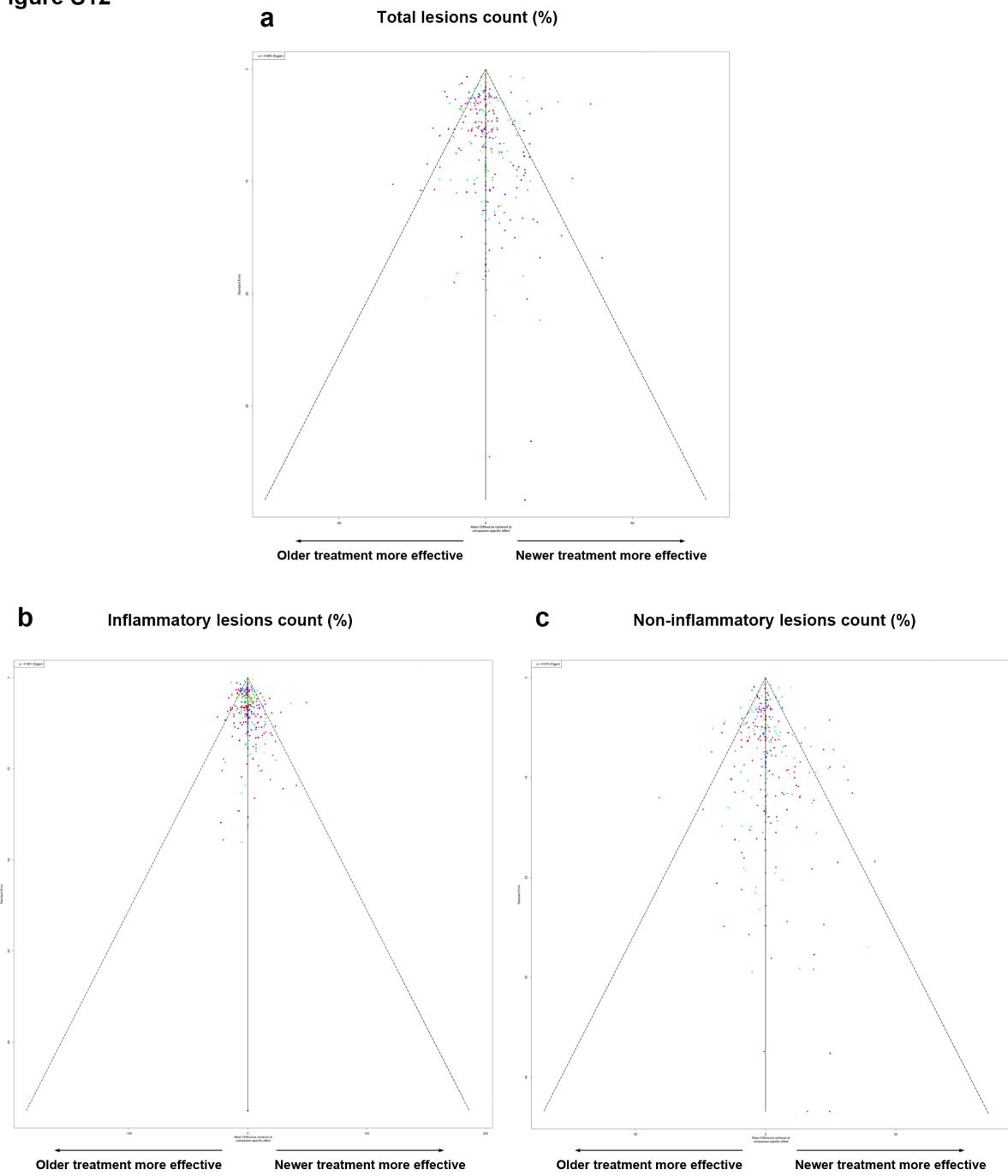
Figure S11



The area of the gray squares represents the contribution of the direct estimate in design d (shown in the column) to the network estimate in design d' (shown in the row). The colors are correlated with the change in inconsistency between direct and indirect evidence in design d' (shown in the row) after detaching the effect of design d (shown in the column). Blue colors indicate an increase and red colors indicate a decrease (the deeper the intensity of the color, the stronger the change).

Supplemental Figure 12. Comparison-adjusted funnel plots assessing the publication bias of the network of percentage reduction in lesion counts.

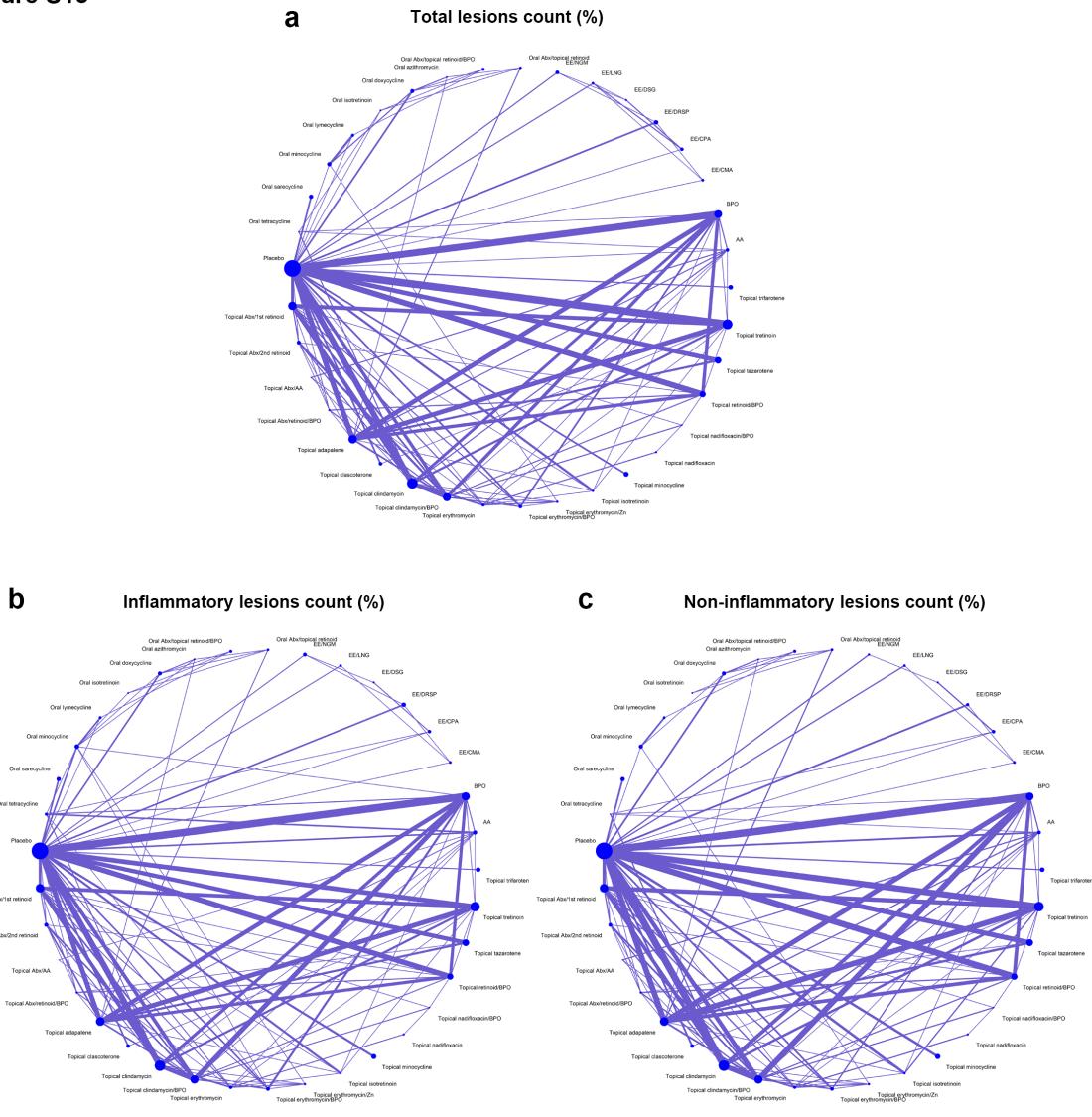
Figure S12



(a) Total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions count. The solid line at the center represents the null hypothesis that the study-specific effect sizes do not differ from the respective comparison-specific pooled effect estimates. Different colors correspond to different comparisons. No conspicuous asymmetry is detected, indicating there is no significant publication bias.

Supplemental Figure 13. Network diagrams of the percentage reduction in lesions count, excluding studies before 1985.

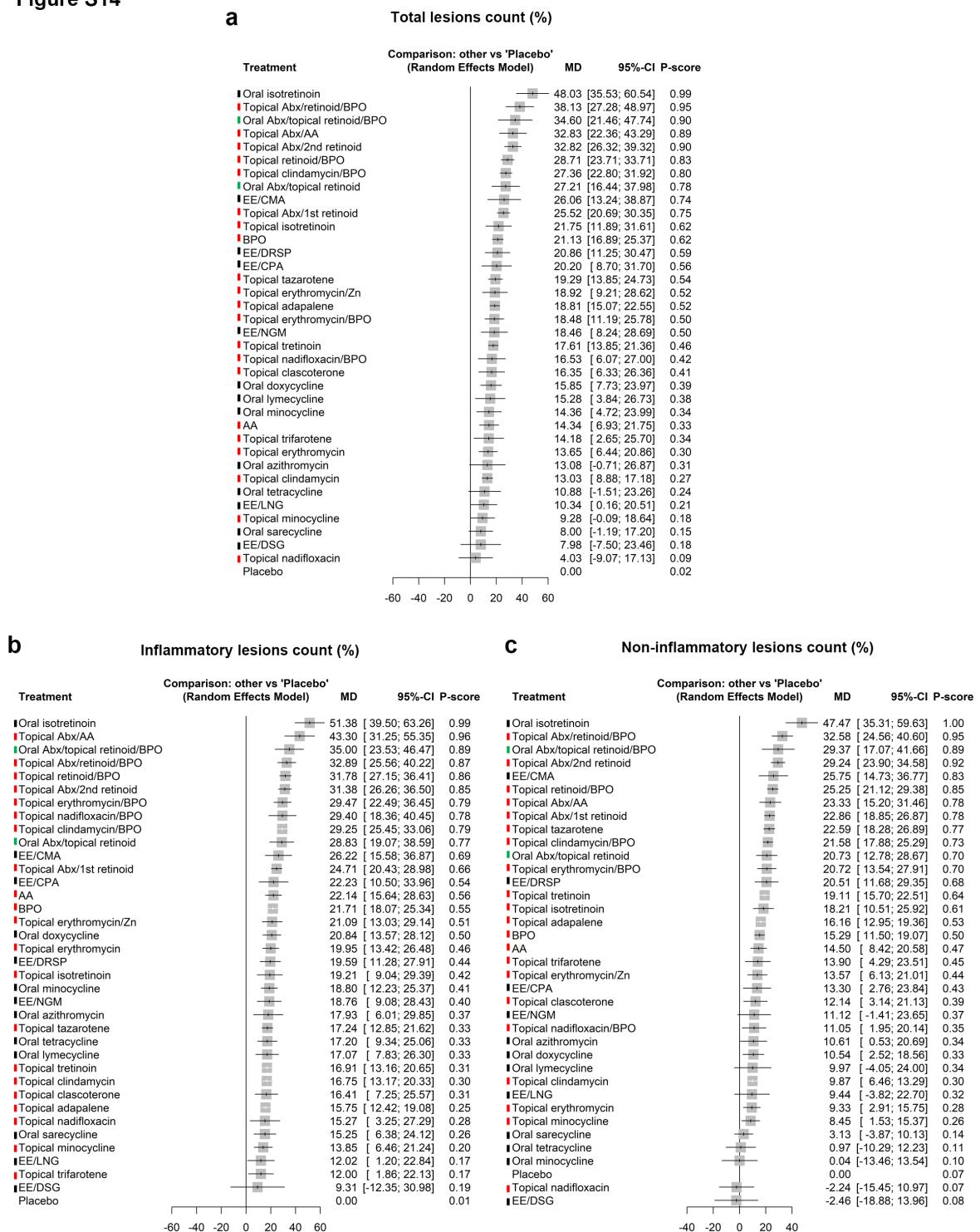
Figure S13



(a) Total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions count. The size of each circle is proportional to the number of randomly assigned patients and the width of the lines corresponds to the number of trials.

Supplemental Figure 14. Estimates of the percentage reduction in lesions count compared with placebo, excluding studies before 1985.

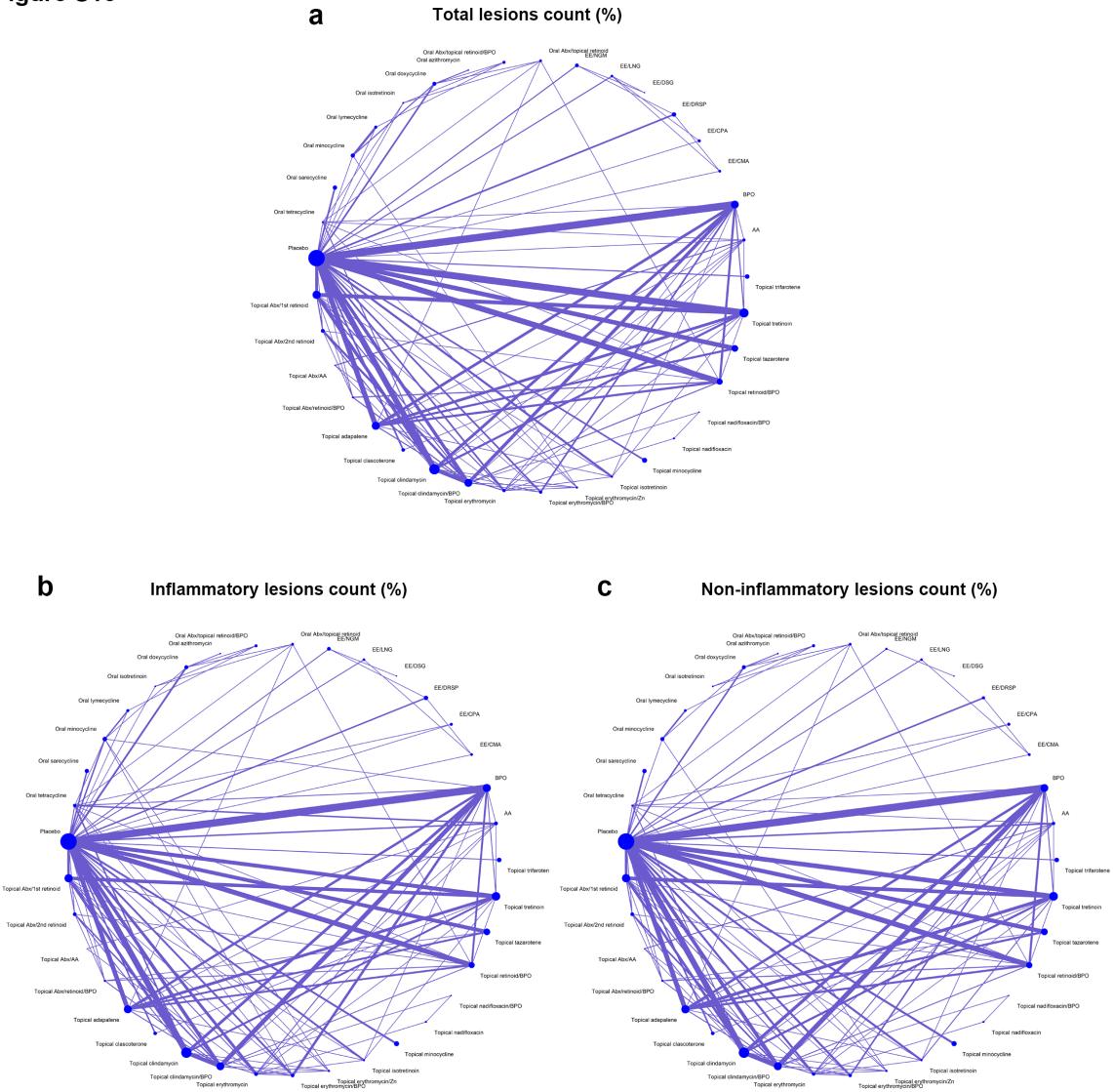
Figure S14



Forest plots of mean difference (MD) and 95% confidence interval (CI) in percentage reduction in **(a)** total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions compared with placebo. Black: oral treatments; red: topical treatments; green: combined oral and topical treatments.

Supplemental Figure 15. Network diagrams of the percentage reduction in lesions count, excluding studies with low quality scores.

Figure S15



(a) Total lesions count, **(b)** inflammatory lesions count, and **(c)** non-inflammatory lesions count. The size of each circle is proportional to the number of randomly assigned patients and the width of the lines corresponds to the number of trials.

Supplemental Table 1. Summary of the Search Strategies

EMBASE

A. Acne vulgaris	'acne vulgaris'/exp OR acne:ab,ti
B. Antibiotics	'antibiotic agent'/exp OR antibiotic*:ab,ti
C. Retinoid	'retinoid'/exp OR retinoi*:ab,ti
D. Hormonal therapy	'antiandrogen'/exp OR 'contraceptive agent'/exp OR contraceptive*:ab,ti OR antiandrogen:ab,ti OR anti-androgen:ab,ti
E. Benzoyl peroxide	'benzoyl peroxide'/exp OR 'azelaic acid'/exp OR 'benzoyl peroxide':ab,ti OR 'azelaic acid':ab,ti and azelaic acid
F. Article type	'clinical trial'/de OR 'comparative study'/de OR 'controlled clinical trial'/de OR 'phase 2 clinical trial'/de OR 'phase 3 clinical trial'/de OR 'randomized controlled trial'/de

Search was combined as **(A AND (B OR C OR D OR E)) AND F**.

PubMed

A. Acne vulgaris	"Acne Vulgaris"[Mesh] OR "acne"[Title/Abstract]
B. Antibiotics	"Anti-Bacterial Agents"[Mesh] OR "antibiotic*"[Title/Abstract]
C. Retinoid	"Retinoids"[Mesh] OR "retinoi*"[Title/Abstract]
D. Hormonal therapy	"Contraceptive Agents"[Mesh] OR "Androgen Antagonists"[Mesh] OR "Contraceptive*"[Title/Abstract] OR "antiandrogen"[Title/Abstract] OR "anti-androgen"[Title/Abstract]
E. Benzoyl peroxide	"Benzoyl Peroxide"[Mesh] OR "benzoyl peroxide"[Title/Abstract] OR "azelaic acid"[Title/Abstract] and azelaic acid
F. Article type	"Clinical Trial"[ptyp] OR "Controlled Clinical Trial"[ptyp] OR "Randomized Controlled Trial"[ptyp] OR "Clinical Trial, Phase

II"[ptyp] OR "Clinical Trial, Phase III"[ptyp] OR "Comparative Study"[ptyp]

Search was combined as (**A** AND (**B** OR **C** OR **D** OR **E**) AND **F**.

Supplemental Table 2. Criteria for Quality Assessment

Assessment	Explanation
Was the study randomized? (0-1)	One point when the study described as randomized
Was the randomization scheme described and appropriate? (0-1)	One point when the method of randomization is described and appropriate (computer-generated random numbers, reference to a random number table, etc.)
Were the investigators blinded? (0-1)	One point when the investigators, including the people delivering the interventions, measuring the lesion counts, and analyzing the results, were unaware of the assigned intervention
Were the participants blinded? (0-1)	One point when participants are unaware of their assigned intervention, with the use of appropriate oral or topical placebo when necessary
Were the missing data unlikely to bias the result? (0-1)	One point when the withdrawals were described with reasons, with the proportions of missing data less than 20% overall, and the differences less than 10% between intervention groups
Quality score (0-5)	The sum of the above five assessments.

Supplemental Table 3. Characteristics of Included Trials

Study	Intervention	Intervention nodes	Number of patients	Proportion of female (%)	Duration of treatment (weeks)	Mean age (years)	Baseline lesions (total/ inflammatory/ noninflammatory)
Stein Gold, 2022	topical clindamycin/BPO (1.2%/3.1% qd) vs topical adapalene/BPO (0.15%/3.1% qd) vs topical adapalene/clindamycin (0.15%/1.2% qd) vs placebo (qd)	Topical clindamycin/BPO vs Topical retinoid/BPO vs Topical adapalene/clindamycin /BPO Abx/retinoid/BPO vs Placebo	741	61	12	20	89/39/50
Aschoff, 2021	topical tretinoin/clindamycin (0.025%/1% qd) vs topical adapalene/BPO (0.1%/2.5% qd)	Topical Abx/1st retinoid vs Topical retinoid/BPO	40	45	3	22	na/na/na
Raoof, 2020	topical minocycline (4% qd) vs placebo (qd)	Topical minocycline vs Placebo	1488	62	12	20	80/31/50
Sayyafan, 2020	topical erythromycin (2%) vs topical erythromycin/Zn (2%/1.2%)	Topical erythromycin vs Topical erythromycin/Zn	102	na	3	18	79/31/48
Webster, 2020	topical tretinoin (0.1% qd) vs topical tretinoin (0.05% qd) vs topical tretinoin/BPO (0.05%/3% qd) vs topical tretinoin/BPO (0.05%/3% qd) vs placebo (qd)	Topical retinoid/BPO vs Placebo	702	63	12	22	70/27/43
Tanghetti, 2020	topical tazarotene (0.045% qd) vs placebo (qd)	Topical tazarotene vs Placebo	1616	66	12	20	69/28/41
Dogra, 2020	topical clindamycin (1% qd) vs topical tretinoin (0.025% qd) vs topical tretinoin/clindamycin (0.04%/1% qd)	Topical clindamycin vs Topical tretinoin vs Topical Abx/1st retinoid	750	40	12	20	65/28/35
Hebert, 2020 (1)	topical clascoterone (1% bid) vs placebo (1% bid)	Topical clascoterone vs Placebo	708	62	12	18	103/43/60
Hebert, 2020 (2)	topical clascoterone (1% bid) vs placebo (1% bid)	Topical clascoterone vs Placebo	732	63	12	18	105/42/63

Gold, 2019	topical minocycline (4% qd) vs placebo (qd)	Topical minocycline vs Placebo	961	58	12	20	81/32/49
Tanghetti, 2019	topical tazarotene (0.045% qd) vs topical tazarotene (0.1% qd) vs placebo (qd)	Topical tazarotene vs Placebo	210	55	12	22	65/37/28
Tan, 2019 (1)	topical trifarotene (50 ug/g qd) vs placebo (qd)	Topical trifarotene vs Placebo	1208	52	12	19	88/35/53
Tan, 2019 (2)	topical trifarotene (50 ug/g qd) vs placebo (qd)	Topical trifarotene vs Placebo	1212	57	12	20	88/37/51
Mazzetti, 2019	topical clascoterone (0.1% bid) vs topical clascoterone (0.5% bid) vs topical clascoterone (1% qd or bid) vs placebo (qd or bid)	Topical clascoterone vs Placebo	363	54	12	20	na/na/na
Alexis, 2018	topical minocycline (2% qd) vs topical minocycline (2% qd) vs placebo (qd)	Topical minocycline vs Placebo	219	68	12	21	60/28/33
Leyden, 2018	oral sarecycline (0.75 mg/kg qd) vs oral sarecycline (1.5 mg/kg qd) vs oral sarecycline (3.0 mg/kg qd) vs placebo	Oral sarecycline vs Placebo	285	60	12	20	86/33/53
Moore, 2018 (1)	oral sarecycline (1.5 mg/kg qd) vs placebo	Oral sarecycline vs Placebo	968	56	12	20	73/30/43
Moore, 2018 (2)	oral sarecycline (1.5 mg/kg qd) vs placebo	Oral sarecycline vs Placebo	1034	59	12	20	73/30/43
Tyring, 2018	topical tretinoin (0.05% qd) vs placebo (qd)	Topical tretinoin vs Placebo	1640	55	12	21	69/26/43
Dreno, 2018	topical adapalene/BPO (0.3%/2.5% qd) vs placebo (qd)	Topical retinoid/BPO vs Placebo	134	66	24	22	40/18/22
Hayashi, 2018	topical clindamycin/BPO (1.2%/3% qd) vs topical adapalene/clindamycin (0.1%/1.2% qd)	Topical clindamycin/BPO vs Topical Abx/2nd retinoid	351	60	12	20	102/32/70
Ghosh, 2018	topical nadifloxacin/BPO (1%/2.5% bid/qd) vs topical adapalene/BPO (0.1%/2.5% bid/qd)	Topical nadifloxacin/BPO vs Topical retinoid/BPO	38	na	12	20	23/5/18
Jaisamrarn, 2018	EE/CMA (30ug/2mg 21/7 cycles) vs EE/DRSP (30ug/3mg 21/7 cycles)	EE/CMA vs EE/DRSP	180	100	24	28	62/17/45

Dreno, 2017	topical adapalene/BPO (0.3%/2.5% qd) vs placebo (qd)	Topical retinoid/BPO vs Placebo	76	37	18	23	49/25/24
Kawashima , 2017	BPO (5% qd) vs BPO (2.5% qd) vs placebo (qd)	BPO vs Placebo	609	58	12	20	51/18/30
Shemer, 2016	topical minocycline (4% qd) vs topical minocycline (1% qd) vs placebo (qd)	Topical minocycline vs Placebo	139	52	12	17	na/na/na
Richter, 2016	topical clindamycin/BPO (1.2%/5% qd) vs BPO (5% qd)	Topical clindamycin/BPO vs BPO	24	63	12	21	58/22/35
Shaller, 2016	topical clindamycin/BPO (1%/3% qd) vs AA (20% bid)	Topical clindamycin/BPO vs AA	217	55	12	20	82/27/55
Xu, 2016	topical clindamycin/BPO (1%/5% qd) vs topical clindamycin (1% bid)	Topical clindamycin/BPO vs Topical clindamycin	1016	75	12	23	78/27/51
Stein Gold, 2016	topical adapalene/BPO (0.3%/2.5% qd) vs topical adapalene/BPO (0.1%/2.5% qd) vs placebo (qd)	Topical retinoid/BPO vs Placebo	503	52	12	20	98/39/60
Jawade, 2016	topical adapalene (0.1% qd) vs topical adapalene/BPO (0.1%/2.5% qs) vs BPO (2.5% qd)	Topical adapalene vs Topical retinoid/BPO vs BPO	132	58	12	19	44/7/37
Kawashima , 2015	topical clindamycin (1.2% bid)	Topical clindamycin/BPO vs Topical clindamycin	799	66	12	21	79/29/50
Moore, 2015	oral doxycycline (40 mg MR qd) vs oral doxycycline (100 mg qd) vs placebo (qd)	Oral doxycycline vs Placebo	662	53	12	19	68/34/34
Weiss, 2015	topical adapalene/BPO (0.3%/2.5% qd) vs topical adapalene/BPO (0.1%/2.5% qd) vs placebo (qd)	Topical retinoid/BPO vs Placebo	252	46	12	19	111/46/65
Thielitz, 2015	topical adapalene (0.1% bid) vs AA (15% bid)	Topical adapalene vs AA	55	100	36	29	47/20/28
Kaur, 2015	topical clindamycin/BPO (1%/2.5% qd) vs topical nadifloxacin/BPO	Topical clindamycin/BPO vs Topical nadifloxacin/BPO	100	na	12	na	17/4/13

	(1%/2.5% qd) vs topical tretinoin/clindamycin (0.025%/1% qd)	vs Topical Abx/1st retinoid					
Pariser, 2014	topical clindamycin/BPO (1.2%/3.75% qd) vs placebo (qd)	Topical clindamycin/BPO vs Placebo	498	49	12	19	65/27/38
Ocampo-Candiani, 2014	oral minocycline (100 mg qd) vs oral lymecycline (300 mg qd)	Oral minocycline vs Oral lymecycline	170	na	12	19	57/27/30
Adhikary, 2014	topical isotretinoin/clindamycin (0.05%/1% qd) vs topical adapalene/clindamycin (0.1%/1% qd)	Topical Abx/1st retinoid vs Topical Abx/2nd retinoid	200	71	12	23	83/29/54
Shwetha, 2014	topical clindamcyin/BPO (1%/2.5% qd) vs topical adapalene/clindamycin (0.1%/1% qd)	Topical clindamycin/BPO vs Topical Abx/2nd retinoid	120	44	12	18	50/13/37
Kawashima , 2014	BPO (3% qd) vs placebo (qd)	BPO vs Placebo	360	65	12	22	71/28/43
Jaisamrarn, 2014	EE/NGM (35/185-250 ug 21/7 cycles) vs EE/DSG (30-40/25-125 ug 22/6 cycles)	EE/NGM vs EE/DSG	201	100	24	30	17/5/11
Tan, 2014	oral doxycycline/topical adapalene/BPO (200 mg/1%/2.5%) vs oral isotretinoin (0.5-1 mg/kg/day)	Oral Abx/topical retinoid/BPO vs Oral isotretinoin	266	15	20	19	107/50/57
Rademaker , 2014	oral isotretinoin (5 mg qd) vs placebo (qd)	Oral isotretinoin vs Placebo	58	88	16	38	10/na/na
Ozgen, 2013	topical nadifloxacin (1% qd) vs topical nadifloxacin/BPO (1%/5% qd/bid)	Topical nadifloxacin vs Topical nadifloxacin/BPO	93	61	8	19	64/23/41
Feldman, 2013 (1)	topical tazarotene (0.01% qd) vs placebo (qd)	Topical tazarotene vs Placebo	743	51	12	18	82/32/50
Feldman, 2013 (2)	topical tazarotene (0.01% qd) vs placebo (qd)	Topical tazarotene vs Placebo	742	52	12	19	78/32/46
Leyden, 2013	oral doxycycline (2.4 mg/kg qd) vs oral doxycycline (1.2 mg/kg qd) oral doxycycline (0.6 mg/kg qd) vs placebo (qd)	Oral doxycycline vs Placebo	257	57	12	20	na/na/na

	topical adapalene (0.1%) vs topical adapalene/BPO (0.1%/2.5%)	Topical adapalene vs Topical retinoid/BPO	27	78	12	23	105/56/49
Kim, 2013	topical adapalene/BPO (0.1%/2.5% qd) vs placebo (qd)	Topical retinoid/BPO vs Placebo	285	76	12	10	54/15/38
Tirado- Sánchez, 2013	topical adapalene (0.3% qd) vs topical adapalene (0.1% qd) vs topical tretinoin (0.05% qd) vs placebo (qd)	Topical adapalene vs Topical tretinoin vs Placebo	171	55	12	20	28/13/15
Babaeineja d, 2013	topical adapalene (0.1% qd) vs BPO (2.5% qd)	Topical adapalene vs BPO	60	78	12	21	20/9/11
Nandimath, 2013	topical adapalene (0.1% qd) vs topical adapalene/clindamycin (0.1%/1% bid)	Topical adapalene vs Topical Abx/2nd retinoid	60	75	12	20	70/20/49
Takigawa, 2013	topical adapalene (0.1% qd) vs topical adapalene/nadifloxaci n (0.1%/1% qd/bid)	Topical adapalene vs Topical Abx/2nd retinoid	187	66	12	23	na/12/na
Palli, 2013	EE/DRSP (20ug/3mg 24/4 cylces) vs placebo (qd)	EE/DRSP vs Placebo	30	100	24	23	49/23/25
Turan, 2012	topical clindamycin/BPO (1%/5% bid) vs topical erythromycin/BPO (2%/5% bid) vs topical sulfacetamide/BPO (10%/5% bid)	Topical clindamycin/BPO vs Topical erythromycin/BPO	60	80	12	19	92/7/85
Eichenfield , 2012	topical tretinoin (0.04% qd) vs placebo (qd)	Topical tretinoin vs Placebo	110	75	12	11	66/10/56
Gonzalez, 2012	topical clindamycin/BPO (1.2%/5% qd) vs topical adapalene/BPO (0.1%/2.5% qd)	Topical clindamycin/BPO vs Topical Abx/2nd retinoid	48	79	2	28	39/14/25
Callender, 2012	topical tretinoin/clindamycin (0.025%/1.2% qd) vs placebo (qd)	Topical Abx/1st retinoid vs Placebo	33	79	12	28	69/13/56
Guerra- Tapia, 2012	topical clindamycin/BPO (1%/5% qd) vs topical adapalene (0.1% qd)	Topical clindamycin/BPO vs Topical adapalene	168	73	12	19	41/19/21
Draelos, 2012	topical tretinoin/BPO (0.025%/5.5% qd/bid) vs topical tretinoin/clindamycin/ BPO (0.025%/1%/5% qd/bid/bid)	Topical clindamycin/BPO vs Topical Abx/retinoid/BPO	66	82	12	na	51/20/31

Jarratt, 2012	topical clindamycin (1.2% qd) vs topical tretinoin (0.025% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd) vs placebo (qd)	Topical clindamycin vs Topical tretinoin vs Topical Abx/1st retinoid vs Placebo	1649	58	12	20	71/26/46
Eichenfield a, 2011	topical clindamycin/BPO (1.2%/3% qd) vs topical clindamycin (1.2% qd) vs BPO (3% qd) vs placebo (qd)	Topical clindamycin/BPO vs Topical clindamycin vs BPO vs Placebo	1315	60	12	20	72/27/45
Pazoki- Toroudi, 2011	topical clindamycin/AA (2%/5% bid) vs topical clindamycin (2% bid) vs AA (5% bid)	Topical clindamycin vs AA vs Topical Abx/AA	150	41	12	22	59/na/na
Maleszka, 2011	oral doxycycline (100 mg bid-qd) vs oral azithromycin (500 mg qd-qw)	Oral doxycycline vs Oral azithromycin	240	46	12	20	80/41/40
Hajheydari, 2011	topical clindamycin (2% bid) vs topical erythromycin (2% bid) vs topical azithromycin (2% bid)	Topical clindamycin vs Topical erythromycin	96	88	16	20	180/56/124
Choudhury , 2011	topical clindamycin/BPO (1%/2.5% bid/qd) vs topical nadifloxacin/BPO (1%/2.5% bid/qd)	Topical clindamycin/BPO vs Topical nadifloxacin/BPO	84	52	8	21	25/6/19
Schmidt, 2011	topical clindamycin (1.2% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd)	Topical clindamycin vs Topical Abx/1st retinoid	2010	52	12	19	80/31/49
Kobayashi, 2011	topical adapalene (0.1% qd) vs topical adapalene/nadifloxacini (0.1%/1% qd/bid)	Topical adapalene vs Topical Abx/2nd retinoid	50	74	8	20	na/na/na
Dreno, 2011	oral lymecycline (300 mg qd) vs lymecycline/topical adapalene/BPO (300 mg/0.1%/2.5% qd)	Oral lymecycline vs Oral Abx/topical retinoid/BPO	378	45	12	19	108/38/70
Trifu, 2011	topical clascoterone (1% qd) vs tretinoin (0.05% qd) vs placebo (qd)	Topical clascoterone vs Topical tretinoin vs Placebo	79	0	8	21	48/30/18
Pazoki- Toroudi, 2010	topical erythromycin (2% bid) vs AA (5% bid) vs topical erythromycin/AA (2%/5% bid) vs placebo (bid)	Topical erythromycin vs AA vs Topical Abx/AA	147	42	12	20	61/33/28

Tunca, 2010	topical erythromycin (4% bid) vs topical nadifloxacin (1% bid)	Topical erythromycin vs Topical nadifloxacin	86	64	12	20	49/27/22
Tanghetti, 2010	topical adapalene (0.3% qd) vs topical tazarotene (0.1% qd)	Topical adapalene vs Topical tazarotene	180	62	16	21	98/33/66
Eichenfield , 2010	topical adapalene (0.1% qd) vs placebo (qd)	Topical adapalene vs Placebo	2141	54	12	19	75/28/47
Gold, 2010	oral doxycycline (100 mg qd) vs oral doxycyclin/topical adapalene/BPO (100 mg/0.1%/2.5% qd)	Doxycycline vs Oral Abx/topical retinoid/BPO	459	45	12	18	100/37/63
Jackson, 2010	topical clindamycin/BPO (1.2%/5% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd)	Topical clindamycin/BPO vs Topical Abx/1st retinoid	54	54	16	17	58/24/35
Kircik, 2009	topical tretinoin (0.04% qd) vs topical tazarotene (0.05% qd)	Topical tretinoin vs Topical tazarotene	40	43	12	21	na/na/na
Stein Gold, 2009	topical adapalene (0.1% qd) vs topical adapalene/BPO (0.1%/2.5% qd) vs BPO (2.5% qd) vs placebo (qd)	Topical adapalene vs Topical retinoid/BPO vs BPO vs Placebo	1668	51	12	18	76/27/46
Gollnick, 2009	topical adapalene (0.1% qd) vs topical adapalene/BPO (0.1%/2.5% qd) vs BPO (2.5% qd) vs placebo (qd)	Topical adapalene vs Topical retinoid/BPO vs BPO vs Placebo	1670	56	12	19	76/26/45
Webster, 2009	topical tretinoin (0.1% qd) vs topical tretinoin (0.05% qd) vs placebo (qd)	Topical tretinoin vs Placebo	1537	52	12	19	74/23/51
Zouboulis, 2009	topical clindamycin/BPO (1.2%/2.5% qd) vs topical adapalene/BPO (0.1%/2.5% qd)	Topical clindamycin/BPO vs Topical retinoid/BPO	382	50	12	21	92/40/52
Nilfroushza deh, 2009	topical clindamycin (1% bid) vs topical tretinoin/clindamycin (0.025%/1% qd) vs topical clindamycin/salicylic acid (1%/2% bid)	Topical clindamycin vs Topical Abx/1st retinoid	42	100	12	na	na/na/na
Ko, 2009	topical clindamycin/BPO (1%/5% qd) vs topical adapalene (0.1% qd)	Topical clindamycin/BPO vs Topical adapalene	69	71	12	23	45/29/17

Kircik, Green, 2009	topical clindamycin/BPO (1%/5% bid) vs BPO (5% bid)	Topical clindamycin/BPO vs BPO	65	54	12	19	na/na/na
Iftikhar, 2009	topical adapalene (0.1% qd) vs BPO (4% qd)	Topical adapalene vs BPO	200	66	20	21	96/na/na
Palombo- Kinne, 2009	EE/CPA (35ug/2mg 21/7 cycles) vs EE/ dienogest (30ug/2mg 21/7 cycles) vs Placebo (qd)	EE/CPA vs Placebo	1338	100	24	24	53/23/30
Plewig, 2009	EE/CMA (30ug/2mg 21/7 cycles) vs Placebo	EE/CMA vs Placebo	387	100	24	na	56/23/33
Thiboutot, 2008	topical clindamycin (1.2% qd) vs topical clindamycin/BPO (1.2%/2.5% qd) vs BPO (2.5% qd) vs placebo (qd)	Topical clindamycin vs Topical clindamycin/BPO vs BPO vs Placebo	2813	52	12	19	72/26/46
Tanghetti, 2008	clindamycin/BPO (1%/5% bid) vs BPO (5% bid)	Topical clindamycin/BPO vs BPO	23	48	4	21	na/na/na
Kawashima , 2008	topical adapalene (0.1% qd) vs placebo (qd)	Topical adapalene vs Placebo	200	89	12	24	63/21/42
Langner, 2008	topical clindamycin/BPO (1%/5% qd) vs topical adapalene (0.1% qd)	Topical clindamycin/BPO vs Topical adapalene	130	59	12	22	95/35/60
Koltun, 2008	EE/DRSP (20ug/3mg 24/4 cylces) vs placebo (qd)	EE/DRSP vs Placebo	534	100	24	25	80/33/47
Maloney, 2008	EE/DRSP (20ug/3mg 24/4 cylces) vs placebo (qd)	EE/DRSP vs Placebo	431	100	24	25	76/32/44
Berger, 2007	topical tretinoin (0.04% qd) vs placebo (qd)	Topical tretinoin vs Placebo	178	82	12	28	42/17/25
Oprica, 2007	oral isotretinoin (1 mg/kg/day) vs oral tetracycline/topical adapalene (500 mg/0.1% bid/qd)	Oral isotretinoin vs Oral Abx/topical retinoid	49	35	24	19	191/54/137
Thiboutot, 2007	topical adapalene (0.1% qd) vs topical adaplaene/BPO (0.1%/2.5% qd) vs BPO (2.5% qd) vs placebo (qd)	Topical adapalene vs Topical retinoid/BPO vs BPO vs Placebo	517	40	12	16	76/28/44
Ghoshal, 2007	oral azithromycin (500mg tiw) vs topical adapalene (1% qd) vs oral azithromycin/topical	Oral azithromycin vs Topical adapalene vs Oral Abx/topical retinoid	75	56	12	19	162/83/79

	adapalene (500 mg tiw/1% qd)						
Tanghetti, 2007	topical tazarotene/clindamycin n (0.1%/1% qd) vs topical tretinoin/clindamycin (0.025%/1% qd)	Topical Abx/1st retinoid vs Topical Abx/2nd retinoid	150	59	12	21	65/25/40
Del Rosso, 2007	topical clindamycin/BPO (1%/5% qd) vs topical adapalene (0.1% qd) vs topical adapalene/clindamycin /BPO (0.1%/1%/5% qd)	Topical clindamycin/BPO vs Topical adapalene vs Topical Abx/retinoid/BPO	109	57	12	18	81/32/49
Schlessinger, 2007	topical clindamycin (1.2% qd) vs topical tretinoin (0.025% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd) vs placebo (qd)	Topical clindamycin vs Topical tretinoin vs Topical Abx/1st retinoid vs Placebo	2540	51	12	19	78/29/49
Iraji, 2007	topical clindamycin/BPO (1%/5% qd) vs topical erythromycin/Zn (4%/1.2% bid)	Topical clindamycin/BPO vs Topical erythromycin/Zn	148	66	12	20	89/35/54
Stinco, 2007	AA (20% bid) vs placebo (bid)	AA vs Placebo	61	60	6.5	18	na/na/na
Webster, 2006 (1)	topical adapalene (qd) vs AA (qd) vs BPO (qd)	Topical adapalene vs AA vs BPO	65	80	8	17	62/18/44
Webster, 2006 (2)	topical tretinoin (0.025% qd) vs topical tretinoin (0.01% qd) vs placebo (qd)	Topical tretinoin vs Placebo	398	45	12	18	na/na/na
Webster, 2006 (3)	topical tretinoin (0.025% qd) vs topical tretinoin (0.01% qd) vs placebo (qd)	Topical tretinoin vs Placebo	412	45	12	18	na/na/na
Webster, 2006 (4)	topical tretinoin (0.025% qd) vs topical tretinoin (0.01% qd) vs placebo (qd)	Topical tretinoin vs Placebo	402	44	12	18	na/na/na
Stewart, 2006	oral minocycline (1 mg/kg qd) vs oral minocycline (2 mg/kg qd) vs oral minocycline (3 mg/kg qd) vs placebo (qd)	Oral minocycline vs Placebo	233	46	12	18	na/41/na

Fleischer, 2006	oral minocycline (1 mg/kg qd) vs placebo (qd)	Oral minocycline vs Placebo	1038	43	12	20	84/39/45
Plewig, 2006	topical erythromycin (2% bid) vs topical nadifloxacin (1% bid)	Topical erythromycin vs Topical nadifloxacin	474	50	12	22	73/33/40
Thiboutot, 2006	topical adapalene (0.3% qd) vs topical adapalene (0.1% qd) vs placebo (qd)	Topical adapalene vs Placebo	653	51	12	18	63/25/34
Tanghetti, 2006	topical tazarotene (0.1% qd) vs topical tazarotene/clindamycin/BPO (0.1%/1%/5% qd)	Topical tazarotene vs Topical Abx/retinoid/BPO	121	60	12	20	na/na/na
Leyden J.J., 2006	topical clindamycin (1% qd) vs topical tretinoin (0.025% qd) vs topical tretinoin/clindamycin (0.025%/1% qd) vs placebo (qd)	Topical clindamycin vs Topical tretinoin vs Topical Abx/1st retinoid vs Placebo	2219	54	12	20	77/26/51
Alirezaï, 2005	topical clindamycin (1% qd) vs topical clindamycin (1% bid) vs placebo (qd)	Topical clindamycin vs Placebo	592	58	12	21	99/29/70
Shalita, Myers, 2005	topical clindamycin (1% qd) vs placebo (qd)	Topical clindamycin vs Placebo	1026	53	12	19	73/26/47
Kus, 2005	oral doxycycline (100 mg bid-qd) vs oral azithromycin (500 mg tiw-biw-qw)	Oral doxycycline vs Oral azithromycin	51	63	12	21	69/26/43
Korkut, 2005	topical adapalene (0.1% qd) vs topical adapalene/BPO (0.1/5% qd) vs BPO (5% qd)	Topical adapalene vs Topical retinoid/BPO vs BPO	105	75	18	18	119/26/93
Shalita, Miller, 2005	topical adapalene (0.1% qd) vs topical tazarotene (0.1% qd)	Topical adapalene vs Topical tazarotene	173	59	12	20	61/17/44
Bowman, 2005	topical clindamycin/BPO (1%/5% qd) vs topical tretinoin/clindamycin (0.025%/1% qd) vs topical tretinoin/clindamycin/BPO (0.025%/1%/5% qd/bid/qd)	Topical clindamycin/BPO vs Topical Abx/1st retinoid vs Topical Abx/retinoid/BPO	132	61	12	19	97/32/65
Thiboutot, 2005	oral doxycycline/topical adapalene (100 mg/0.1% qd) vs oral doxycycline (100 mg qd)	Oral Abx/topical retinoid vs Oral doxycycline	467	46	12	18	82/33/49

Pariser, 2005	topical adapalene (0.3% qd) vs topical adapalene (0.1% qd) vs placebo (qd)	Topical adapalene vs Placebo	214	41	12	17	77/31/45
Gollnick, 2004 (1)	AA (15% bid) vs BPO (5% bid)	AA vs BPO	351	62	12	21	42/20/21
Gollnick, 2004 (2)	AA (15% bid) vs topical clindamycin (1% bid)	AA vs Topical clindamycin	229	55	12	21	36/20/16
Ozolins, 2004	oral doxycycline (500 mg bid) vs oral minocycline (100 mg qd) vs topical erythromycin/BPO (5%/3% bid) vs topical erythromycin/BPO (5%/2% qd) vs BPO (5% qd)	Oral doxycycline vs Oral minocycline vs Topical erythromycin/BPO vs BPO	761	55	18	20	na/53/na
Peker, 2004	topical clindamycin (1% bid) vs topical erythromycin (4% bid) vs oral tetracycline (3% bid)	Topical clindamycin vs Topical erythromycin	60	60	12	18	77/34/33
Leyden, 2004	oral minocycline (100 mg bid) vs oral compound A (25 mg qd) vs oral minocycline/compoun d A (100mg/25mg bid/qd) vs placebo (bid)	Oral minocycline vs Placebo	182	na	12	na	na/29/na
Shalita, 2004	topical tazarotene (0.1% qd) vs placebo (qd)	Topical tazarotene vs Placebo	847	49	12	19	84/23/58
Zhang, 2004	topical adapalene/clindamycin (0.1%/1% qd/bid) vs topical clindamycin (1% bid)	Topical Abx/2nd retinoid vs Topical clindamycin	300	68	12	22	54/21/33
Thorneycro ft, 2004	EE/NGM (35ug/180- 250ug 21/7 cycles) vs EE/DRSP (30ug/3mg 21/7 cycles)	EE/NGM vs EE/DRSP	1148	100	24	24	na/na/na
Bossuyt, 2003	oral minocycline (100 mg qd) vs oral lymecycline (300 mg qd)	Oral minocycline vs Oral lymecycline	134	40	12	19	63/33/30
Dubertret, 2003	oral lymecycline (300 mg qd) vs oral lymecycline (150 mg bid) vs placebo (bid)	Oral lymecycline vs Placebo	271	47	12	21	na/na/na
Skidmore, 2003	oral doxycycline (20 mg bid) vs placebo (bid)	Oral doxycycline vs Placebo	51	51	24	23	82/29/53
Do Nascimento o, 2003	topical adapalene (0.1% qd) vs BPO (4% bid)	Topical adapalene vs BPO	178	50	11	17	na/na/na

Wolf, 2003	topical adapalene/clindamycin (0.1%/1% qd/bid) vs topical clindamycin (1% bid)	Topical Abx/2nd retinoid vs Topical clindamycin	249	54	12	18	70/21/49
Cunliffe, 2003	oral lymecycline/topical adapalene (300 mg/0.1% qd) vs oral lymecycline (300 mg qd)	Oral Abx/topical retinoid vs Oral lymecycline	242	53	12	19	106/37/70
Gupta, 2003	topical erythromycin/BPO (3%/5% bid) vs topical tretinoin/erythromycin (0.025%/4% bid)	Topical erythromycin/BPO vs Topical Abx/1st retinoid	112	na	12	19	57/25/32
Rosen, 2003	EE/DSG (30 ug/150 ug qd) vs EE/LNG (30 ug/150 ug qd)	EE/DSG vs EE/LNG	34	100	36	34	29/na/na
Cunliffe, 2002	topical clindamycin (1% bid) vs topical clindamycin/BPO (1%/5% bid)	Topical clindamycin vs Topical clindamycin/BPO	79	29	16	18	89/38/50
Jones, 2002	topical erythromycin/BPO (3%/5% bid) vs placebo (bid)	Topical erythromycin/BPO vs Placebo	223	50	8	19	72/30/42
Thiboutot, 2002	topical erythromycin/BPO (3%/5% bid) vs placebo (bid)	Topical erythromycin/BPO vs Placebo	327	69	8	20	83/27/55
Piérard-Franchimont, 2002	oral minocycline (50 mg bid/qd) vs oral minocycline (50 mg qd) vs oral lymecycline (300 mg qd)	Oral minocycline vs Oral lymecycline	86	na	12	24	na/23/na
Bershad, 2002	topical tazarotene (0.1% bid) vs topical tazarotene (0.1% qd) vs placebo (bid)	Topical tazarotene vs Placebo	99	65	12	25	64/21/43
Webster, 2002	topical adapalene (0.1% qd) vs topical tazarotene (0.1% qd)	Topical adapalene vs Topical tazarotene	145	49	12	18	79/19/60
Aydin, 2002	topical tretinoin (0.025% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	40	63	12	21	57/16/41
Ioannides, 2002	topical isotretinoin (0.05% qd) vs topical adapalene (0.1% qd)	Topical isotretinoin vs Topical adapalene	80	55	12	na	108/20/88
Marazzi, 2002	topical erythromycin/BPO (3%/5% bid) vs topical isotretinoin/erythromycin (0.01%/4% qd)	Topical Erythromycin/BPO vs Topical Abx/1st retinoid	188	90	12	17	79/35/44

Leyden, 2002	EE/LNG (20ug/100ug 21/7 cycles) vs Placebo (qd)	EE/LNG vs Placebo	371	100	24	25	70/22/48
Ergin, 2001	topical erythromycin/BPO (3%/5% bid) vs BPO (5% bid)	Topical erythromycin/BPO vs BPO	75	69	16	18	58/na/na
Tschen, 2001	topical clindamycin (1% bid) vs topical clindamycin/BPO (1%/5% bid) vs BPO (5% bid) vs placebo (bid)	Topical clindamycin vs Topical clindamycin/BPO vs BPO vs Placebo	287	50	10	19	na/25/na
Nyirady , 2001	topical tretinoin (0.1% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	186	55	12	21	64/20/45
Tu, 2001	topical tretinoin (0.025% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	150	59	8	19	59/na/na
Leyden, Lowe, 2001	topical adapalene (0.1% qd) vs topical tazarotene (0.1% qod)	Topical adapalene vs Topical tazarotene	164	49	15	19	92/27/65
Leyden, Hickman, 2001	topical clindamycin/BPO (1%/5% bid) vs topical erythromycin/BPO (3%/5% bid) vs BPO (5% bid)	Topical clindamycin/BPO vs Topical erythromycin/BPO vs BPO	492	59	10	19	53/19/34
Leyden, Berger, 2001	topical clindamycin (1% bid) vs topical clindamycin/BPO (1%/5% bid) vs BPO (5% bid) vs placebo (bid)	Topical clindamycin vs Topical clindamycin/BPO vs BPO vs Placebo	480	54	10	19	49/20/29
Triboutot, 2001	EE/LNG (20ug/100ug 21/7 cycles) vs placebo (qd)	EE/LNG vs Placebo	201	100	24	28	58/19/39
Vartiainen, 2001	EE/DSG (40ug/25- 125ug 22/6 cycles) vs EE/CPA (35ug/2mg 21/7 cycles)	EE/DSG vs EE/CPA	172	100	24	na	31/20/11
Worret, 2001	EE/LNG (30ug/150ug 21/7 cycles) vs EE/CMA (30ug/2mg 21/7 cycles)	EE/LNG vs EE/CMA	199	100	48	na	16/8/8
Langner, 2000	topical isotretinoin (0.1% bid) vs topical isotretinoin (0.05% bid) vs placebo (bid)	Topical isotretinoin vs Placebo	127	52	12	19	86/38/47
Zouboulis, 2000	topical clindamycin (1% bid) vs topical tretinoin/clindamycin (0.025%/1% qd)	Topical clindamycin vs Topical Abx/1st retinoid	209	52	12	19	na/56/na
Shalita, 1999	topical tazarotene (0.1% qd) vs topical	Topical tazarotene vs Placebo	446	47	12	21	80/21/59

	tazarotene (0.05% qd) vs placebo (qd)						
Piérard-Franchimont, 1999	topical tretinoin (0.05% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	50	na	6	na	na/na/na/
Glass, 1999	topical erythromycin (2% bid) vs topical isotretinoin (0.05% bid) vs topical isotretinoin/erythromycin (0.05%/2% bid) vs placebo (bid)	Topical erythromycin vs Topical isotretinoin vs Topical Abx/1st retinoid vs Placebo	160	23	12	19	na/na/na
Gruber, 1998	oral minocycline (100 mg qd) vs oral azithromycin (500 mg qd)	Oral minocycline vs Oral azithromycin	72	53	6	22	25/na/na
Grosshan, Belaich, 1998	oral minocycline (100 mg qd-qod) vs oral lymecycline (150 mg bid-qd)	Oral minocycline vs Oral lymecycline	144	40	12	19	70/31/39
Ellis, 1998	topical adapalene (0.1% qd) vs topical tretinoin (0.025% qd)	Topical adapalene vs Topical tretinoin	297	49	12	19	82/27/55
Grosshans, Marks, 1998	topical tretinoin (0.025% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	105	37	12	20	72/24/47
Richter, Förström, 1998	topical tretinoin (0.025% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd)	Topical tretinoin vs Topical Abx/1st retinoid	152	42	12	20	133/49/84
Richter, Bousema, 1998(1)	topical clindamycin (1.2% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd)	Topical clindamycin vs Topical Abx/1st retinoid	162	33	12	18	130/39/81
Richter, Bousema, 1998(2)	topical tretinoin (0.025% qd) vs topical tretinoin/clindamycin (0.025%/1.2% qd)	Topical tretinoin vs Topical Abx/1st retinoid	157	48	12	18	120/33/87
Lookingbill, 1997	topical clindamycin (1% qd) vs topical clindamycin/BPO (1%/5% qd) vs BPO (5% qd) vs placebo (qd)	Topical clindamycin vs Topical clindamycin/BPO vs BPO vs Placebo	393	51	11	19	86/29/57
Chu, 1997	topical erythromycin/BPO (3%/5% bid) vs topical erythromycin/Zn (4%/1.2% bid)	Topical erythromycin/BPO vs Topical erythromycin/Zn	67	na	10	24	61/23/38
Cunliffe, 1997	topical tretinoin (0.025% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	268	47	12	19	106/34/72
Lucky, 1997	EE/NGM (35ug/180-250ug 21/7 cycles) vs placebo	EE/NGM vs Placebo	234	100	24	27	52/19/33

Redmond, 1997	EE/NGM (35ug/180- 250ug 21/7 cycles) vs placebo	EE/NGM vs Placebo	231	100	24	28	56/19/37
Packman, 1996	topical erythromycin/BPO (3%/5% bid) vs topical clindamycin (bid)	Topical erythromycin/BPO vs Topical clindamycin	199	na	10	na	43/18/25
Sklar, 1996	topical erythromycin/BPO (3%/5% bid) vs BPO (10% bid) vs placebo (bid)	Topical erythromycin/BPO vs BPO vs Placebo	94	na	12	na	29/19/10
Shalita, 1996	topical tretinoin (0.025% qd) vs topical adapalene (0.1% qd)	Topical tretinoin vs Topical adapalene	323	na	12	na	84/na/na
Goujon, 1995	topical tretinoin (0.05% qd) vs topical isotretinoin (0.05% qd)	Topical tretinoin vs Topical isotretinoin	20	65	12	na	na/na/65
Fonseca, 1995	topical erythromycin (2% bid) vs topical tretinoin (0.05% qd) vs topical tretinoin/erythromycin (0.05%/2% qd)	Topical erythromycin vs Topical tretinoin vs Topical Abx/1st retinoid	272	39	10	19	65/22/43
Bojar, 1994	topical erythromycin (4% bid) vs topical erythromycin/Zn (4%/1.2% bid)	Topical erythromycin vs Topical erythromycin/Zn	52	33	12	19	108/54/54
Dieben, 1994	EE/DSG (30-40ug/25- 125ug 22/6 cycles) vs EE/CPA (35ug/2mg 21/7 cycles)	EE/DSG vs EE/CPA	183	100	16	na	29/13/16
Stainforth, 1993	oral minocycline (50mg qd) vs topical erythromycin/Zn (4%/1.2% bid)	Oral minocycline vs Topical erythromycin/Zn	105	43	8	20	134/62/72
DeVillez, 1992	topical erythromycin/BPO (3%/5% bid) vs BPO (4% bid)	Topical erythromycin/BPO vs BPO	30	20	11	16	na/29/na
Hughes, 1992	topical isotretinoin (0.05% bid) vs BPO (5% bid) vs placebo (bid)	Topical isotretinoin vs BPO vs Placebo	77	40	12	19	90/43/48
Norris, 1991	oral oxytetracycline (250 mg bid) vs BPO (5% qd) vs topical oral tetracycline (bid)	Oral tetracycline vs BPO	69	65	12	na	78/61/17
Wishart, 1991	EE/LNG (30ug/50- 125ug 21/7 cycles) vs EE/CPA (50ug/2mg 21/7 cycles)	EE/LNG vs EE/CPA	20	100	24	22	na/na/na
Schachner, 1990	oral minocycline (50 mg bid) vs topical clindamycin (1% bid)	Oral minocycline vs Topical clindamycin	66	36	12	na	105/50/55

Hjorth, 1989 (1)	oral tetracycline (1000mg-750mg- 500mg qd) vs AA (20% bid)	Oral tetracycline vs AA	333	47	20	na	na/36/na
Hjorth, 1989 (2)	oral tetracycline (1000mg-750mg- 500mg qd) vs AA (20% bid)	Oral tetracycline vs AA	261	26	24	na	na/20/na
Katsambas, 1989 (1)	AA (20%) vs placebo	AA vs Placebo	92	71	12	19	na/29/na
Katsambas, 1989 (2)	topical tretinoin (0.05% qd-bid) vs AA (20% qd-bid)	Topical tretinoin vs AA	289	53	24	17	62/11/51
Pastrana- Ruiz, 1989	oral tetracycline (500 mg qd) vs topical clindamycin (1% qd)	Oral tetracycline vs Topical clindamycin	55	53	12	19	85/37/48
Olafsson, 1989	oral doxycycline (50 mg bid-qd) vs oral minocycline (50mg bid-qd)	Oral doxycycline vs Oral minocycline	79	56	12	21	74/50/43
Cunliffe, 1989	AA (20% bid) vs placebo (bid)	AA vs Placebo	40	35	12	na	na/na/na/
Swinyer, 1988	topical clindamycin (1% bid) vs BPO (5% bid)	Topical clindamycin vs BPO	60	57	12	20	89/24/65
Harrison, 1988	oral doxycycline (50 mg qd) vs oral minocycline (50 mg bid)	Oral doxycycline vs Oral minocycline	43	49	12	20	51/na/na
Elbaum, 1988	topical tretinoin (0.05% qd-bid) vs topical isotretinoin (0.05% qd-bid)	Topical tretinoin vs Topical isotretinoin	16	na	12	na	na/na/na/
Leyden, 1987	topical clindamycin (1% bid) vs topical erythromycin (2% bid)	Topical clindamycin vs Topical erythromycin	102	49	12	19	46/18/28
Katsambas, 1987	oral tetracycline (500 mg bid) vs topical clindamycin (1% qd)	Oral tetracycline vs Topical clindamycin	60	95	12	na	71/45/25
Chalker, 1987	topical isotretinoin (0.05% bid) vs placebo (bid)	Topical isotretinoin vs placebo	313	42	14	20	68/29/39
Bladon, 1986	oral tetracycline (250 mg qd) vs AA (20% bid)	Oral tetracycline vs AA	45	na	24	19	86/44/42
Kuhlman, 1986	topical clindamycin (1% bid) vs placebo (bid)	Topical clindamycin vs Placebo	46	na	12	na	40/26/14
Mills, 1986	BPO (2.5% bid) vs placebo (bid)	BPO vs Placebo	50	52	8	na	na/14/na
Carlborg, 1986	EE/CPA (50ug/2mg 21/7 cycles) vs EE/CPA (35ug/2mg 21/7 cycles) vs	EE/CPA vs EE/LNG	133	100	24	na	na/na/na

	EE/LNG (30ug/150ug 21/7 cycles)						
Pigatto, 1986	oral minocycline (50- 100 mg qd) vs oral isotretinoin (0.5-1 mg/kg/day)	Oral minocycline vs Oral isotretinoin	24	0	20	23	na/20/na
Lesher, 1985	topical erythromycin (2% bid) vs placebo (bid)	Topical erythromycin vs Placebo	225	37	12	19	na/25/na
Greenwood , 1985	oral tetracycline (500 mg qd) vs EE/CPA (50ug/2mg 21/7 cycles) vs oral tetracycline/EE/CPA (500mg/50ug/2mg qd and 21/7cycles)	Oral tetracycline vs EE/CPA	92	100	24	na	na/na/na
Lester, 1985	oral tetracycline (500- 1000 mg/day) vs oral isotretinoin (1.0-2.0 mg/kg/day)	Oral tetracycline vs Oral isotretinoin	30	3	16	25	44/na/na
Tucker, 1984	topical clindamycin (1% bid) vs topical clindamycin/BPO (1%/5% qd) vs BPO (5% bid)	Topical clindamycin vs Topical clindamycin/BPO vs BPO	79	57	10	na	80/30/51
Burke, 1983	topical erythromycin (1.5% bid) vs BPO (5% bid) vs placebo (bid)	Topical erythromycin vs BPO vs Placebo	89	21	8	19	52/19/33
Chalker, 1983	topical erythromycin (3% bid) vs topical erythromycin/BPO (3%/5% bid) vs BPO (5% bid) vs placebo (bid)	Topical erythromycin vs Topical erythromycin/BPO vs BPO vs Placebo	165	41	10	na	na/na/na
Gratton, 1982	oral tetracycline (250 mg bid) vs topical clindamycin (1% bid) vs Placebo (bid)	Oral tetracycline vs Topical clindamycin vs Placebo	305	na	8	na	na/68/na
Peck, 1982	oral isotretinoin (0.5- 1.0 mg/kg/day qd) vs placebo (qd)	Oral isotretinoin vs Placebo	33	na	16	na	na/na/na
Jones, 1981	topical erythromycin (2% bid) vs placebo (bid)	Topical erythromycin vs Placebo	175	57	12	na	na/25/na
Feucht, 1980	oral tetracycline (250 mg bid) vs topical erythromycin/Zn (4%/1.2% bid) vs placebo bid	Oral tetracycline vs Topical erythromycin/Zn vs Placebo	141	0	10	na	49/16/33
Bernstein, 1980	topical erythromycin (2% bid) vs placebo (bid)	Topical erythromycin vs Placebo	348	70	8	20	48/24/24
Swinyer, 1980	oral tetracycline (250 mg bid) vs topical tretinoin/BPO	Oral tetracycline vs Topical retinoid/BPO vs	122	26	16	18	174/29/145

	(0.05%/5% qd/bid-tid) vs oral tetracycline/topical tretinoin (250 mg/0.05% bid/qd)	Oral Abx/topical retinoid					
Lyons, 1978	topical tretinoin (0.1% qd-bid) vs BPO (5%- 10% qd-bid)	Topical tretinoin vs BPO	147	73	8	19	37/12/25
Bucknall, 1977	topical tretinoin (0.025% bid) vs BPO (5% bid)	Topical tretinoin vs BPO	97	na	12	na	83/52/31
Plewig, 1970	oral doxycycline (100 mg bid) vs placebo (bid)	Oral doxycycline vs Placebo	62	29	4	19	na/13/na

Full references for all trials are given in the appendix.

Details of treatment nodes are described in Table S3.

Abbreviation: qd, once daily; bid, twice a day; BPO, benzoyl peroxide; AA, azelaic acid; Abx, antibiotics; EE, ethinylestradiol; LNG, levonorgestrel; DRSP, drospirenone; DSG, desogestrel; NGM, norgestimate; CMA, chlormadinone acetate; CPA, cyproterone acetate; na, not available

Supplemental Table 4. Intervention Nodes Included in the Network Meta-Analysis

For Primary Analysis

Treatment Nodes	Contents
Oral tetracycline	Oral tetracycline
Oral doxycycline	Oral doxycycline
Oral lymecycline	Oral lymecycline
Oral minocycline	Oral minocycline
Oral azithromycin	Oral azithromycin
Oral sarecycline	Oral sarecycline
Topical clindamycin	Topical clindamycin
Topical clindamycin/BPO	Topical clindamycin + topical benzoyl peroxide
Topical erythromycin	Topical erythromycin
Topical erythromycin/BPO	Topical erythromycin + topical benzoyl peroxide
Topical erythromycin/Zn	Topical erythromycin + topical zinc
Topical nadifloxacin	Topical nadifloxacin
Topical nadifloxacin/BPO	Topical nadifloxacin + topical benzoyl peroxide
Topical minocycline	Topical minocycline
Topical Abx/AA	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + topical azelaic acid
Oral isotretinoin	Oral isotretinoin
Topical isotretinoin	Topical isotretinoin
Topical tretinoin	Topical tretinoin
Topical tazarotene	Topical tazarotene
Topical adapalene	Topical adapalene
Topical trifarotene	Topical trifarotene
Topical retinoid/BPO	(Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene) + topical benzoyl peroxide
Topical Abx/1st retinoid	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + (topical isotretinoin or topical tretinoin)

Topical Abx/2nd retinoid	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + (topical tazarotene or topical adapalene)
Topical Abx/retinoid/BPO	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + (topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene) + topical benzoyl peroxide
Oral Abx/topical retinoid	(Oral tetracycline or oral doxycycline or oral lymecycline or oral minocycline or oral azithromycin or oral sarecycline) + (Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene)
Oral Abx/topical retinoid/BPO	(Oral tetracycline or oral doxycycline or oral lymecycline or oral minocycline or oral azithromycin or oral sarecycline) + (Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene) + topical benzoyl peroxide
EE/LNG	Oral ethinylestradiol / levonorgestrel
EE/DRSP	Oral ethinylestradiol / drospirenone
EE/DSG	Oral ethinylestradiol / desogestrel
EE/NGM	Oral ethinylestradiol / norgestimate
EE/CMA	Oral ethinylestradiol / chlormadinone acetate
EE/CPA	Oral ethinylestradiol / cyproterone acetate
Topical clascoterone	Topical clascoterone
BPO	Topical benzoyl peroxide
AA	Topical azelaic acid
Placebo	Oral placebo or topical placebo

For Sensitivity Analysis with Simplified Treatment Nodes

Treatment Nodes	Contents
Oral Abx	Oral tetracycline or oral doxycycline or oral lymecycline or oral minocycline or oral azithromycin
Topical Abx	Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline
Topical Abx/BPO	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + topical benzoyl peroxide
Topical Abx/AA	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + topical azelaic acid
Oral isotretinoin	Oral isotretinoin
Topical retinoid	Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene
Topical retinoid/BPO	(Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene) + topical benzoyl peroxide

Topical Abx/retinoid	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + (topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene)
Topical Abx/retinoid/BPO	(Topical clindamycin or topical erythromycin or topical nadifloxacin or topical minocycline) + (topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene) + topical benzoyl peroxide
Oral Abx/topical retinoid	(Oral tetracycline or oral doxycycline or oral lymecycline or oral minocycline or oral azithromycin or oral sarecycline) + (Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene)
Oral Abx/topical retinoid/BPO	(Oral tetracycline or oral doxycycline or oral lymecycline or oral minocycline or oral azithromycin or oral sarecycline) + (Topical isotretinoin or topical tretinoin or topical tazarotene or topical adapalene or topical trifarotene) + topical benzoyl peroxide
COC	Oral ethinylestradiol / levonorgestrel or oral ethinylestradiol / drospirenone or oral ethinylestradiol / desogestrel or oral ethinylestradiol / norgestimate or oral ethinylestradiol / chlormadinone acetate or oral ethinylestradiol / cyproterone acetate
Topical antiandrogen	Topical clascoterone
BPO	Topical benzoyl peroxide
AA	Topical azelaic acid
Placebo	Oral placebo or topical placebo

Supplemental Table 5. Quality Assessment of Included Trials

Study	Was the study randomized?	Was the randomization scheme described and appropriate?	Were the investigators blinded?	Were the participants blinded?	Were the missing data unlikely to bias the result?	Quality score
Stein Gold, 2022	1	1	1	1	1	5
Aschoff, 2021	1	1	1	0	1	4
Raoof, 2020	1	0	1	1	0	3
Sayyafan, 2020	1	0	1	1	0	3
Webster, 2020	1	0	1	1	0	3
Tanghetti, 2020	1	1	1	1	1	5
Dogra, 2020	1	1	1	1	1	5
Hebert, 2020 (1)	1	1	1	1	1	5
Hebert, 2020 (2)	1	1	1	1	1	5
Gold, 2019	1	0	1	1	1	4
Tanghetti, 2019	1	0	1	1	1	4
Tan, 2019 (1)	1	0	1	1	1	4
Tan, 2019 (2)	1	0	1	1	1	4
Mazzetti, 2019	1	0	1	1	0	3
Alexis, 2018	1	0	1	1	1	4
Leyden, 2018	1	1	1	1	1	5
Moore, 2018 (1)	1	0	1	1	1	4
Moore, 2018 (2)	1	0	1	1	1	4
Tyring, 2018	1	0	1	1	1	4
Dreno, 2018	1	1	1	0	1	4
Hayashi, 2018	1	1	1	0	1	4
Ghosh, 2018	1	0	0	0	1	2
Jaisamrarn, 2018	1	1	1	0	1	4
Dreno, 2017	1	1	1	0	1	4
Kawashima, 2017	1	1	1	1	1	5
Shemer, 2016	1	0	1	1	0	3
Richter, 2016	1	1	1	0	1	4
Shaller, 2016	1	1	1	0	1	4
Xu, 2016	1	1	1	0	1	4
Stein Gold, 2016	1	1	1	1	1	5
Jawade, 2016	1	0	1	0	0	2
Kawashima, 2015	1	1	1	0	1	4
Moore, 2015	1	0	1	1	0	3
Weiss, 2015	1	1	1	1	1	5
Thielitz, 2015	1	1	1	0	1	4

Kaur, 2015	1	0	0	0	1	2
Pariser, 2014	1	1	1	1	1	5
Ocampo-Candiani, 2014	1	1	1	0	0	3
Adhikary, 2014	1	0	0	0	1	2
Shwetha, 2014	1	1	0	0	1	3
Kawashima, 2014	1	1	1	1	1	5
Jaisamrarn, 2014	1	1	1	0	1	4
Tan, 2014	1	1	1	0	1	4
Rademaker, 2014	1	1	1	1	0	4
Ozgen, 2013	1	1	1	1	0	4
Feldman, 2013 (1)	1	1	1	1	1	5
Feldman, 2013 (2)	1	1	1	1	1	5
Leyden, 2013	1	0	1	1	1	4
Kim, 2013	1	0	1	0	1	3
Eichenfield, 2013	1	0	1	1	1	4
Tirado-Sánchez, 2013	1	0	1	1	1	4
Babaeinejad, 2013	1	1	1	1	1	5
Nandimath, 2013	1	0	0	0	0	1
Takigawa, 2013	1	0	0	0	1	2
Palli, 2013	1	1	1	1	0	4
Turan, 2012	1	0	0	0	0	1
Eichenfield, 2012	1	1	1	1	1	5
Gonzalez, 2012	1	1	1	0	1	4
Callender, 2012	1	0	1	1	1	4
Guerra-Tapia, 2012	1	1	1	0	1	4
Draelos, 2012	1	0	1	1	0	3
Jarratt, 2012	1	1	1	1	1	5
Eichenfielda, 2011	1	0	1	1	1	4
Pazoki-Toroudi, 2011	1	0	1	1	0	3
Maleszka, 2011	1	0	1	1	1	4
Hajheydari, 2011	1	0	1	1	0	3
Choudhury, 2011	1	1	1	0	1	4
Schmidt, 2011	1	0	1	1	1	4
Kobayashi, 2011	1	1	0	0	0	2
Dreno, 2011	1	1	1	1	1	5
Trifu, 2011	1	0	1	1	1	4
Pazoki-Toroudi, 2010	1	0	1	1	0	3
Tunca, 2010	1	1	0	0	0	2
Tanghetti, 2010	1	0	1	0	1	3

Eichenfield, 2010	1	1	1	0	0	3
Gold, 2010	1	0	1	1	1	4
Jackson, 2010	1	0	1	0	1	3
Kircik, 2009	1	0	1	0	0	2
Stein Gold, 2009	1	0	1	1	1	4
Gollnick, 2009	1	0	1	1	1	4
Webster, 2009	1	0	1	0	0	2
Zouboulis, 2009	1	0	1	0	1	3
Nilfroushzadeh, 2009	1	0	1	0	1	3
Ko, 2009	1	0	0	0	0	1
Kircik, Green, 2009	1	0	1	0	1	3
Iftikhar, 2009	1	1	0	0	0	2
Palombo-Kinne, 2009	1	0	1	1	1	4
Plewig, 2009	1	0	1	1	0	3
Thiboutot, 2008	1	1	1	1	1	5
Tanghetti, 2008	1	0	1	0	1	3
Kawashima, 2008	1	0	1	0	1	3
Langner, 2008	1	1	1	0	1	4
Koltun, 2008	1	1	1	1	0	4
Maloney, 2008	1	1	1	1	0	4
Berger, 2007	1	0	1	1	1	4
Oprica, 2007	1	1	0	0	1	3
Thiboutot, 2007	1	0	1	1	1	4
Ghoshal, 2007	1	0	0	0	1	2
Tanghetti, 2007	1	0	1	0	1	3
Del Rosso, 2007	1	0	0	0	0	1
Schlessinger, 2007	1	0	1	1	0	3
Langner, 2007	1	1	1	0	1	4
Iraji, 2007	1	0	1	1	0	3
Stinco, 2007	1	0	0	0	1	2
Webster, 2006 (1)	1	0	1	1	0	3
Webster, 2006 (2)	1	0	1	1	0	3
Webster, 2006 (3)	1	0	1	1	0	3
Webster, 2006 (4)	1	0	1	1	0	3
Stewart, 2006	1	0	1	1	1	4
Fleischer, 2006	1	0	1	1	1	4
Plewig, 2006	1	1	1	1	1	5
Thiboutot, 2006	1	0	1	1	1	4
Tanghetti, 2006	1	0	1	1	0	3
Leyden J.J., 2006	1	1	1	1	1	5

Alirezaï, 2005	1	0	1	0	1	3
Shalita, Myers, 2005	1	0	1	1	1	4
Kus, 2005	1	1	1	0	1	4
Korkut, 2005	1	0	0	0	0	1
Shalita, Miller, 2005	1	0	1	1	0	3
Bowman, 2005	1	1	1	0	1	4
Thiboutot, 2005	1	0	1	0	1	3
Pariser, 2005	1	0	1	0	1	3
Gollnick, 2004 (1)	1	0	1	1	0	3
Gollnick, 2004 (2)	1	0	1	0	0	2
Ozolins, 2004	1	1	1	0	1	4
Peker, 2004	1	0	0	0	1	2
Leyden, 2004	1	0	1	1	0	3
Shalita, 2004	1	1	1	1	1	5
Zhang, 2004	1	0	1	0	1	3
Thorncroft, 2004	1	1	1	1	1	5
Bossuyt, 2003	1	0	1	0	1	3
Dubertret, 2003	1	0	1	1	1	4
Skidmore, 2003	1	0	1	1	1	4
Do Nascimento, 2003	1	1	1	0	1	4
Wolf, 2003	1	0	1	0	1	3
Cunliffe, 2003	1	0	1	0	1	3
Gupta, 2003	1	1	1	1	0	4
Rosen, 2003	1	1	1	1	0	4
Cunliffe, 2002	1	0	1	1	0	3
Jones, 2002	1	0	1	1	0	3
Thiboutot, 2002	1	0	1	1	0	3
Piérard-Franchimont, 2002	1	0	1	1	0	3
Bershad, 2002	1	0	1	0	1	3
Webster, 2002	1	1	1	1	1	5
Aydin, 2002	1	0	0	0	1	2
Ioannides, 2002	1	1	0	0	1	3
Marazzi, 2002	1	0	1	0	0	2
Leyden, 2002	1	1	1	1	0	4
Ergin, 2001	1	0	1	1	0	3
Tschen, 2001	1	0	1	1	0	3
Nyirady , 2001	1	0	1	1	1	4
Tu, 2001	1	0	0	0	0	1
Leyden, Lowe, 2001	1	1	1	1	1	5

Leyden, Hickman,						
2001	1	0	1	0	1	3
Leyden, Berger, 2001	1	0	1	1	1	4
Triboutot, 2001	1	1	1	1	0	4
Vartiainen, 2001	1	0	0	0	1	2
Worret, 2001	1	0	1	0	0	2
Langner, 2000	1	0	1	1	1	4
Zouboulis, 2000	1	1	1	0	1	4
Shalita, 1999	1	0	1	1	1	4
Piérard-Franchimont,						
1999	1	0	1	1	1	4
Glass, 1999	1	1	1	1	1	5
Gruber, 1998	0	0	0	0	1	1
Grosshan, Belaich,						
1998	1	0	1	1	1	4
Ellis, 1998	1	0	1	0	0	2
Grosshans, Marks,						
1998	1	1	1	0	1	4
Richter, Förström,						
1998	1	0	1	1	1	4
Richter, Bousema,						
1998(1)	1	0	1	0	0	2
Richter, Bousema,						
1998(2)	1	0	1	1	0	3
Lookingbill, 1997	1	0	1	1	0	3
Chu, 1997	1	0	1	0	0	2
Cunliffe, 1997	1	0	1	0	1	3
Lucky, 1997	1	1	1	1	0	4
Redmond, 1997	1	1	1	1	0	4
Packman, 1996	1	0	1	0	1	3
Sklar, 1996	1	1	1	0	0	3
Shalita, 1996	1	1	1	0	1	4
Goujon, 1995	1	1	1	0	1	4
Fonseca, 1995	1	0	1	1	0	3
Bojar, 1994	1	0	0	0	0	1
Dieben, 1994	1	0	0	0	0	1
Stainforth, 1993	1	0	1	0	1	3
DeVillez, 1992	1	0	1	0	1	3
Hughes, 1992	1	0	1	1	1	4
Norris, 1991	1	0	1	1	1	4
Wishart, 1991	1	0	0	0	1	2

Schachner, 1990	1	0	1	1	1	4
Hjorth, 1989 (1)	1	0	1	1	0	3
Hjorth, 1989 (1)	1	0	1	1	0	3
Katsambas, 1989 (1)	1	0	1	1	1	4
Katsambas, 1989 (2)	1	0	1	1	0	3
Pastrana-Ruiz, 1989	1	0	1	1	1	4
Olafsson, 1989	1	0	1	1	1	4
Cunliffe, 1989	1	1	1	1	0	4
Swinyer, 1988	1	0	1	0	1	3
Harrison, 1988	1	0	1	0	1	3
Elbaum, 1988	1	0	1	1	0	3
Leyden, 1987	1	0	1	0	1	3
Katsambas, 1987	1	0	1	1	0	3
Chalker, 1987	1	0	1	1	1	4
Bladon, 1986	1	0	1	1	0	3
Kuhlman, 1986	1	0	1	1	0	3
Mills, 1986	1	0	1	1	1	2
Carlborg, 1986	1	0	1	1	0	3
Pigatto, 1986	1	0	0	0	0	1
Lesher, 1985	1	0	1	1	0	3
Greenwood, 1985	1	0	1	1	0	3
Lester, 1985	1	0	1	1	0	3
Tucker, 1984	1	0	1	0	0	2
Burke, 1983	1	0	1	1	0	3
Chalker, 1983	1	0	1	1	1	4
Gratton, 1982	1	0	1	1	0	3
Peck, 1982	1	1	1	1	0	4
Jones, 1981	1	0	1	1	0	3
Feucht, 1980	1	1	1	1	1	5
Bernstein, 1980	1	0	1	1	0	3
Swinyer, 1980	1	0	1	1	1	4
Lyons, 1978	1	1	0	0	1	3
Bucknall, 1977	1	0	1	0	0	2
Plewig, 1970	1	0	1	1	0	3

Full references for all trials are given below.

Criteria for quality assessment is described in Suppl Table 2.

References for included trials

The references ¹⁻²¹⁰ are ordered by years of publication, identical to Table 1.

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