

Supplementary

Table S1 Literature search strategy

1. PubMed

Search number	Query	Results
#1	"Acne Vulgaris"[Mesh]	12,899
#2	((((ACNE[Title/Abstract]) OR (Acne vulgaris[Title/Abstract])) OR (acne, pomade[Title/Abstract])) OR (acneiform eruption[Title/Abstract])) OR (acneiform eruptions[Title/Abstract])) OR (acneiform skin eruption[Title/Abstract])) OR (pomade acne[Title/Abstract])) OR (skin eruption[Title/Abstract])) OR (Acneiform[Title/Abstract])) OR (tropical acne[Title/Abstract]))	20,364
#3	("Acne Vulgaris"[Mesh]) OR (((((ACNE[Title/Abstract]) OR (Acne vulgaris[Title/Abstract])) OR (acne, pomade[Title/Abstract])) OR (acneiform eruption[Title/Abstract])) OR (acneiform eruptions[Title/Abstract])) OR (acneiform skin eruption[Title/Abstract])) OR (pomade acne[Title/Abstract])) OR (skin eruption[Title/Abstract])) OR (Acneiform[Title/Abstract])) OR (tropical acne[Title/Abstract]))	22,831
#4	"Lasers"[Mesh]	57,606
#5	((((((((Laser[Title/Abstract]) OR (Q-Switched Lasers[Title/Abstract])) OR (Laser, Q-Switched[Title/Abstract])) OR (Lasers, Q-Switched[Title/Abstract])) OR (Q Switched Lasers[Title/Abstract])) OR (Q-Switched Laser[Title/Abstract])) OR (Pulsed Lasers[Title/Abstract])) OR (Laser, Pulsed[Title/Abstract])) OR (Lasers, Pulsed[Title/Abstract])) OR (Pulsed Laser[Title/Abstract])) OR (Continuous Wave Lasers[Title/Abstract])) OR (Continuous Wave Laser[Title/Abstract])) OR (Laser, Continuous Wave[Title/Abstract])) OR (Lasers, Continuous Wave[Title/Abstract])) OR (Masers[Title/Abstract])) OR (Maser[Title/Abstract]))	296,210
#6	("Lasers"[Mesh]) OR (((((((((Laser[Title/Abstract]) OR (Q-Switched Lasers[Title/Abstract])) OR (Laser, Q-Switched[Title/Abstract])) OR (Lasers, Q-Switched[Title/Abstract])) OR (Q Switched Lasers[Title/Abstract])) OR (Q-Switched Laser[Title/Abstract])) OR (Pulsed Lasers[Title/Abstract])) OR (Laser, Pulsed[Title/Abstract])) OR (Lasers, Pulsed[Title/Abstract])) OR (Pulsed Laser[Title/Abstract])) OR (Continuous Wave Lasers[Title/Abstract])) OR (Continuous Wave Laser[Title/Abstract])) OR (Laser, Continuous Wave[Title/Abstract])) OR (Lasers, Continuous Wave[Title/Abstract])) OR (Masers[Title/Abstract])) OR (Maser[Title/Abstract]))	305,553
#7	((("Acne Vulgaris"[Mesh]) OR (((((ACNE[Title/Abstract]) OR (Acne vulgaris[Title/Abstract])) OR (acne, pomade[Title/Abstract])) OR (acneiform eruption[Title/Abstract])) OR (acneiform eruptions[Title/Abstract])) OR (acneiform skin eruption[Title/Abstract])) OR (pomade acne[Title/Abstract])) OR (skin eruption[Title/Abstract])) OR (Acneiform[Title/Abstract])) OR (tropical acne[Title/Abstract]))) AND ("Lasers"[Mesh]) OR (((((((Laser[Title/Abstract]) OR (Q-Switched Lasers[Title/Abstract])) OR (Laser, Q-Switched[Title/Abstract])) OR (Lasers, Q-Switched[Title/Abstract])) OR (Q Switched Lasers[Title/Abstract])) OR (Q-Switched Laser[Title/Abstract])) OR (Pulsed Lasers[Title/Abstract])) OR (Laser, Pulsed[Title/Abstract])) OR (Lasers, Pulsed[Title/Abstract])) OR (Pulsed Laser[Title/Abstract])) OR (Continuous Wave Lasers[Title/Abstract])) OR (Continuous Wave Laser[Title/Abstract])) OR (Laser, Continuous Wave[Title/Abstract])) OR (Lasers, Continuous Wave[Title/Abstract])) OR (Masers[Title/Abstract])) OR (Maser[Title/Abstract]))	1,002
#8	((("Acne Vulgaris"[Mesh]) OR (((((ACNE[Title/Abstract]) OR (Acne vulgaris[Title/Abstract])) OR (acne, pomade[Title/Abstract])) OR (acneiform eruption[Title/Abstract])) OR (acneiform eruptions[Title/Abstract])) OR (acneiform skin eruption[Title/Abstract])) OR (pomade acne[Title/Abstract])) OR (skin eruption[Title/Abstract])) OR (Acneiform[Title/Abstract])) OR (tropical acne[Title/Abstract]))) AND ("Lasers"[Mesh]) OR (((((((Laser[Title/Abstract]) OR (Q-Switched Lasers[Title/Abstract])) OR (Laser, Q-Switched[Title/Abstract])) OR (Lasers, Q-Switched[Title/Abstract])) OR (Q Switched Lasers[Title/Abstract])) OR (Q-Switched Laser[Title/Abstract])) OR (Pulsed Lasers[Title/Abstract])) OR (Laser, Pulsed[Title/Abstract])) OR (Lasers, Pulsed[Title/Abstract])) OR (Pulsed Laser[Title/Abstract])) OR (Continuous Wave Lasers[Title/Abstract])) OR (Continuous Wave Laser[Title/Abstract])) OR (Laser, Continuous Wave[Title/Abstract])) OR (Lasers, Continuous Wave[Title/Abstract])) OR (Masers[Title/Abstract])) OR (Maser[Title/Abstract]))	120

2. Cochrane

Search number	Query	Results
#1	MeSH descriptor: [Acne Vulgaris] explode all trees	1,504
#2	(Acne):ti,ab,kw OR (acne, pomade):ti,ab,kw OR (acneiform eruption):ti,ab,kw OR (acneiform eruptions):ti,ab,kw OR (acneiform skin eruption):ti,ab,kw	4,980
#3	(pomade acne):ti,ab,kw OR (skin eruption, acneiform):ti,ab,kw OR (tropical acne):ti,ab,kw	19
#4	#1or#2or#3	4,980
#5	MeSH descriptor: [Lasers] explode all trees	2,595
#6	(Laser):ti,ab,kw OR (Masers):ti,ab,kw OR (Maser):ti,ab,kw OR (Q-Switched Lasers):ti,ab,kw AND (Laser, Q-Switched):ti,ab,kw	21,738
#7	(Lasers, Q-Switched):ti,ab,kw OR (Q Switched Lasers):ti,ab,kw OR (Q-Switched Laser):ti,ab,kw OR (Pulsed Lasers):ti,ab,kw OR (Laser, Pulsed):ti,ab,kw	1,247
#8	(Lasers, Pulsed):ti,ab,kw OR (Pulsed Laser):ti,ab,kw OR (Continuous Wave Lasers):ti,ab,kw OR (Continuous Wave Laser):ti,ab,kw OR (Laser, Continuous Wave):ti,ab,kw	1,202
#9	(Lasers, Continuous Wave):ti,ab,kw	62
#10	#5or#6or#7or#8or#9	21,907
#11	#4and#10	368

3. Embase

Search number	Query	Results
#1	'acne'/exp	40,041
#2	acne:ab,ti OR 'acne vulgaris':ab,ti OR 'acne, pomade':ab,ti OR 'acneiform eruption':ab,ti OR 'acneiform eruptions':ab,ti OR 'acneiform skin eruption':ab,ti OR 'pomade acne':ab,ti OR 'skin eruption':ab,ti OR 'acneiform:ab,ti OR 'tropical acne':ab,ti	29,966
#3	#1 OR #2	47,053
#4	laser:ab,ti OR 'q-switched lasers':ab,ti OR 'laser, q-switched':ab,ti OR 'lasers, q-switched':ab,ti OR 'q switched lasers':ab,ti OR 'q-switched laser':ab,ti OR 'pulsed lasers':ab,ti OR 'laser, pulsed':ab,ti OR 'lasers, pulsed':ab,ti OR 'pulsed laser':ab,ti OR 'continuous wave lasers':ab,ti OR 'continuous wave laser':ab,ti OR 'laser, continuous wave':ab,ti OR 'lasers, continuous wave':ab,ti OR masers:ab,ti OR maser:ab,ti	307,616
#5	laser:ab,ti	307,069
#6	#4 OR #5	307,616
#7	#3 AND #6	1,709
#8	#7 AND ('controlled clinical trial'/de OR 'controlled study'/de OR 'randomized controlled trial'/de OR 'randomized controlled trial topic'/de OR 'single blind procedure'/de)	528

4. Web of Science

Search number	Query	Results
#1	Randomized Controlled Trial (Topic) or randomized (Topic) or split-face (Topic) or Parallel Controlled Trial (Topic) or parallel-group (Topic) or parallel group (Topic) or blinded (Topic)	1,350,819
#2	Lasers (Topic) or Laser (Topic) or Masers (Topic) or Maser (Topic) or Q-Switched Lasers (Topic) or Laser, Q-Switched (Topic) or Lasers, Q-Switched (Topic) or Q Switched Lasers (Topic) or Q-Switched Laser (Topic) or Pulsed Lasers (Topic) or Laser, Pulsed (Topic) or Lasers, Pulsed (Topic) or Pulsed Laser (Topic) or Continuous Wave Lasers (Topic) or Continuous Wave Laser (Topic) or Laser, Continuous Wave (Topic) or Lasers, Continuous Wave (Topic)	1,121,479
#3	Acne Vulgaris (Topic) or Acne (Topic) or acne, pomade (Topic) or acneiform eruption (Topic) or acneiform eruptions (Topic) or acneiform skin eruption (Topic) or pomade acne (Topic) or skin eruption, acneiform (Topic) or tropical acne (Topic)	22,946
#4	#1 AND #2 AND #3	491

Table S2 The league table of evaluating the effects of different interventions on improving acne scars

	1064Nd	RF	PDL	MTS	FCL + SC-CM	FCL + PRP	FCL + HA	FCL	Er + RF	Er	ASC	30%SC + FCL	1927FTL	1064Nd + 15%VC
1064Nd	1064Nd	1.63 (-1.39, 4.64)	0.67 (-3.62, 4.96)	0.57 (-3.12, 4.26)	1.71 (-2.72, 6.13)	-0.18 (-4.07, 3.71)	0.20 (-4.70, 5.11)	1.58 (-1.90, 5.06)	0.46 (-3.80, 4.71)	0.33 (-1.79, 2.46)	1.45 (-3.19, 6.10)	1.06 (-3.55, 5.66)	0.20 (-3.47, 3.88)	-0.41 (-3.44, 2.61)
RF	-1.63 (-4.64, 1.39)	RF	-0.96 (-4.01, 2.09)	-1.06 (-4.76, 2.64)	0.08 (-3.16, 3.31)	-1.80 (-4.26, 0.65)	-1.42 (-5.29, 2.45)	-0.05 (-1.78, 1.69)	-1.17 (-4.17, 1.83)	-1.29 (-3.44, 0.85)	-0.17 (-3.71, 3.36)	-0.57 (-4.05, 2.91)	-1.42 (-5.11, 2.26)	-2.04 (-6.31, 2.23)
PDL	-0.67 (-4.96, 3.62)	0.96 (-2.09, 4.01)	PDL	-0.10 (-4.89, 4.69)	1.04 (-3.40, 5.48)	-0.84 (-4.76, 3.07)	-0.46 (-5.39, 4.46)	0.91 (-2.59, 4.42)	-0.21 (-4.49, 4.07)	-0.33 (-4.06, 3.39)	0.79 (-3.88, 5.45)	0.39 (-4.23, 5.02)	-0.46 (-5.25, 4.32)	-1.08 (-6.33, 4.17)
MTS	-0.57 (-4.26, 3.12)	1.06 (-2.64, 4.76)	0.10 (-4.69, 4.89)	MTS	1.14 (-3.78, 6.05)	-0.75 (-5.18, 3.69)	-0.37 (-5.72, 4.99)	1.01 (-3.08, 5.10)	-0.11 (-4.88, 4.65)	-0.24 (-3.25, 2.78)	0.88 (-4.23, 6.00)	0.49 (-4.59, 5.57)	-0.37 (-4.62, 3.88)	-0.98 (-5.75, 3.79)
FCL + SC-CM	-1.71 (-6.13, 2.72)	-0.08 (-3.31, 3.16)	-1.04 (-5.48, 3.40)	-1.14 (-6.05, 3.78)	FCL + SC-CM	-1.88 (-4.62, 0.85)	-1.50 (-5.56, 2.55)	-0.13 (-2.86, 2.60)	-1.25 (-5.66, 3.17)	-1.37 (-5.25, 2.51)	-0.25 (-4.37, 3.86)	-0.65 (-4.72, 3.42)	-1.50 (-6.41, 3.40)	-2.12 (-7.48, 3.24)
FCL + PRP	0.18 (-3.71, 4.07)	1.80 (-0.65, 4.26)	0.84 (-3.07, 4.76)	0.75 (-3.69, 5.18)	1.88 (-0.85, 4.62)	FCL + PRP	0.38 (-2.61, 3.37)	1.76 (0.03, 3.49)	0.63 (-3.24, 4.51)	0.51 (-2.74, 3.77)	1.63 (-1.90, 5.16)	1.24 (-2.24, 4.71)	0.38 (-4.05, 4.81)	-0.23 (-5.16, 4.69)
FCL + HA	-0.20 (-5.11, 4.70)	1.42 (-2.45, 5.29)	0.46 (-4.46, 5.39)	0.37 (-4.99, 5.72)	1.50 (-2.55, 5.56)	-0.38 (-3.37, 2.61)	FCL + HA	1.38 (-2.08, 4.83)	0.25 (-4.64, 5.15)	0.13 (-4.29, 4.55)	1.25 (-3.38, 5.88)	0.85 (-3.73, 5.44)	-0.00 (-5.34, 5.34)	-0.62 (-6.38, 5.15)
FCL	-1.58 (-5.06, 1.90)	0.05 (-1.69, 1.78)	-0.91 (-4.42, 2.59)	-1.01 (-5.10, 3.08)	0.13 (-2.60, 2.86)	-1.76 (-3.49, -0.03)	-1.38 (-4.83, 2.08)	FCL	-1.12 (-4.59, 2.35)	-1.25 (-4.00, 1.51)	-0.13 (-3.20, 2.95)	-0.52 (-3.54, 2.49)	-1.38 (-5.45, 2.70)	-1.99 (-6.60, 2.62)
Er + RF	-0.46 (-4.71, 3.80)	1.17 (-1.83, 4.17)	0.21 (-4.07, 4.49)	0.11 (-4.65, 4.88)	1.25 (-3.17, 5.66)	-0.63 (-4.51, 3.24)	-0.25 (-5.15, 4.64)	1.12 (-2.35, 4.59)	Er + RF	-0.12 (-3.81, 3.57)	1.00 (-3.64, 5.63)	0.60 (-4.00, 5.20)	-0.25 (-5.01, 4.50)	-0.87 (-6.09, 4.35)
Er	-0.33 (-2.46, 1.79)	1.29 (-0.85, 3.44)	0.33 (-3.39, 4.06)	0.24 (-2.78, 3.25)	1.37 (-2.51, 5.25)	-0.51 (-3.77, 2.74)	-0.13 (-4.55, 4.29)	1.25 (-1.51, 4.00)	0.12 (-3.57, 3.81)	Er	1.12 (-3.01, 5.25)	0.72 (-3.36, 4.81)	-0.13 (-3.13, 2.87)	-0.75 (-4.44, 2.95)
ASC	-1.45 (-6.10, 3.19)	0.17 (-3.36, 3.71)	-0.79 (-5.45, 3.88)	-0.88 (-6.00, 4.23)	0.25 (-3.86, 4.37)	-1.63 (-5.16, 1.90)	-1.25 (-5.88, 3.38)	0.13 (-2.95, 3.20)	-1.00 (-5.63, 3.64)	-1.12 (-5.25, 3.01)	ASC	-0.40 (-4.70, 3.91)	-1.25 (-6.36, 3.85)	-1.87 (-7.41, 3.68)
30%SC + FCL	-1.06 (-5.66, 3.55)	0.57 (-2.91, 4.05)	-0.39 (-5.02, 4.23)	-0.49 (-5.57, 4.59)	0.65 (-3.42, 4.72)	-1.24 (-4.71, 2.24)	-0.85 (-5.44, 3.73)	0.52 (-2.49, 3.54)	-0.60 (-5.20, 4.00)	-0.72 (-4.81, 3.36)	0.40 (-3.91, 4.70)	30%SC + FCL	-0.85 (-5.92, 4.21)	-1.47 (-6.98, 4.04)
1927FTL	-0.20 (-3.88, 3.47)	1.42 (-2.26, 5.11)	0.46 (-4.32, 5.25)	0.37 (-3.88, 4.62)	1.50 (-3.40, 6.41)	-0.38 (-4.81, 4.05)	0.00 (-5.34, 5.34)	1.38 (-2.70, 5.45)	0.25 (-4.50, 5.01)	0.13 (-2.87, 3.13)	1.25 (-3.85, 6.36)	0.85 (-4.21, 5.92)	1927FTL	-0.62 (-5.37, 4.14)
1064Nd + 15%VC	0.41 (-2.61, 3.44)	2.04 (-2.23, 6.31)	1.08 (-4.17, 6.33)	0.98 (-3.79, 5.75)	2.12 (-3.24, 7.48)	0.23 (-4.69, 5.16)	0.62 (-5.15, 6.38)	1.99 (-2.62, 6.60)	0.87 (-4.35, 6.09)	0.75 (-2.95, 4.44)	1.87 (-3.68, 7.41)	1.47 (-4.04, 6.98)	0.62 (-4.14, 5.37)	1064Nd + 15%VC

Table S3 The league table on the cure rate of different interventions

	FCL	RF	PRP	MTS	FCL + yifu	FCL + PRP	FCL + CO2gas	FCL + 30%SC	Er + PRP	Er + FCL	Er	CO2 gas + PRP
FCL	FCL	0.20 (0.05, 0.72)	0.13 (0.02, 0.63)	0.47 (0.13, 1.64)	1.95 (1.20, 3.17)	1.64 (1.17, 2.28)	2.00 (0.20, 20.41)	3.00 (0.34, 26.56)	2.74 (0.47, 15.96)	3.40 (1.50, 7.71)	0.94 (0.42, 2.12)	0.36 (0.09, 1.53)
RF	5.05 (1.39, 18.38)	RF	0.63 (0.09, 4.65)	2.37 (0.51, 11.01)	9.84 (2.48, 39.07)	8.26 (2.18, 31.28)	10.11 (0.71, 144.16)	15.16 (1.20, 191.16)	13.86 (1.79, 107.22)	17.19 (4.67, 63.20)	4.74 (1.42, 15.88)	1.84 (0.27, 12.68)
PRP	7.99 (1.59, 40.22)	1.58 (0.21, 11.63)	PRP	3.75 (0.55, 25.78)	15.57 (2.97, 81.67)	13.06 (2.59, 65.91)	15.98 (0.94, 270.76)	23.97 (1.59, 361.84)	21.91 (4.02, 119.41)	27.17 (4.88, 151.20)	7.50 (1.40, 40.21)	2.90 (0.34, 24.69)
MTS	2.13 (0.61, 7.42)	0.42 (0.09, 1.96)	0.27 (0.04, 1.83)	MTS	4.15 (1.09, 15.81)	3.48 (0.96, 12.63)	4.26 (0.30, 59.54)	6.39 (0.52, 78.87)	5.84 (0.84, 40.74)	7.25 (2.37, 22.18)	2.00 (0.78, 5.15)	0.77 (0.12, 5.19)
FCL + yifu	0.51 (0.32, 0.84)	0.10 (0.03, 0.40)	0.06 (0.01, 0.34)	0.24 (0.06, 0.92)	FCL + yifu	0.84 (0.59, 1.20)	1.03 (0.10, 11.02)	1.54 (0.16, 14.39)	1.41 (0.23, 8.62)	1.75 (0.68, 4.51)	0.48 (0.19, 1.24)	0.19 (0.04, 0.79)
FCL + PRP	0.61 (0.44, 0.85)	0.12 (0.03, 0.46)	0.08 (0.02, 0.39)	0.29 (0.08, 1.04)	1.19 (0.83, 1.70)	FCL + PRP	1.22 (0.12, 12.78)	1.83 (0.20, 16.66)	1.68 (0.28, 9.91)	2.08 (0.86, 5.01)	0.57 (0.24, 1.38)	0.22 (0.05, 0.90)
FCL + CO2gas	0.50 (0.05, 5.10)	0.10 (0.01, 1.41)	0.06 (0.00, 1.06)	0.23 (0.02, 3.28)	0.97 (0.09, 10.46)	0.82 (0.08, 8.54)	FCL + CO2gas	1.50 (0.06, 36.30)	1.37 (0.07, 25.31)	1.70 (0.14, 19.96)	0.47 (0.04, 5.50)	0.18 (0.01, 2.79)
FCL + 30%SC	0.33 (0.04, 2.95)	0.07 (0.01, 0.83)	0.04 (0.00, 0.63)	0.16 (0.01, 1.93)	0.65 (0.07, 6.07)	0.55 (0.06, 4.95)	0.67 (0.03, 16.13)	FCL + 30%SC	0.91 (0.06, 15.08)	1.13 (0.11, 11.64)	0.31 (0.03, 3.21)	0.12 (0.01, 1.65)
Er + PRP	0.36 (0.06, 2.12)	0.07 (0.01, 0.56)	0.05 (0.01, 0.25)	0.17 (0.02, 1.19)	0.71 (0.12, 4.35)	0.60 (0.10, 3.52)	0.73 (0.04, 13.46)	1.09 (0.07, 18.05)	Er + PRP	1.24 (0.21, 7.25)	0.34 (0.06, 1.87)	0.13 (0.01, 1.27)
Er + FCL	0.29 (0.13, 0.67)	0.06 (0.02, 0.21)	0.04 (0.01, 0.20)	0.14 (0.05, 0.42)	0.57 (0.22, 1.48)	0.48 (0.20, 1.16)	0.59 (0.05, 6.90)	0.88 (0.09, 9.06)	0.81 (0.14, 4.71)	Er + FCL	0.28 (0.15, 0.50)	0.11 (0.02, 0.56)
Er	1.07 (0.47, 2.40)	0.21 (0.06, 0.71)	0.13 (0.02, 0.71)	0.50 (0.19, 1.29)	2.08 (0.81, 5.34)	1.74 (0.73, 4.17)	2.13 (0.18, 24.97)	3.20 (0.31, 32.77)	2.92 (0.54, 15.92)	3.62 (2.00, 6.57)	Er	0.39 (0.07, 2.02)
CO2 gas + PRP	2.75 (0.65, 11.61)	0.54 (0.08, 3.76)	0.34 (0.04, 2.93)	1.29 (0.19, 8.67)	5.36 (1.26, 22.77)	4.50 (1.11, 18.27)	5					