

Supplemental Online Content

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eTable 1. Risk of bias assessment for new studies added since baseline review

eTable 2. League table for change in EASI

eTable 3. GRADE certainty ratings for change in EASI

eTable 4. League table for change in POEM

eTable 5. GRADE certainty ratings for change in POEM

eTable 6. League table for change in DLQI

eTable 7. GRADE certainty ratings for change in DLQI

eTable 8. League table for change in PP-NRS

eTable 9. GRADE certainty ratings for change in PP-NRS

eFigure 1. Network graphs for change in signs on the standardized mean difference scale

eTable 10. League table for change in signs on the standardized mean difference scale

eTable 11. GRADE certainty ratings for change in signs on the standardized mean difference scale

eFigure 2. Network graphs of change in QoL on the standardized mean difference scale

eTable 12. League table for change in QoL on the standardized mean difference scale

eTable 13. GRADE certainty ratings for change in QoL on the standardized mean difference scale

eFigure 3. Network graphs of change in itch on the standardized mean difference scale

eTable 14. League table for change in itch on the standardized mean difference scale

eTable 15. GRADE certainty ratings for change in itch on the standardized mean difference scale

eFigure 4. Network graphs for withdrawal due to adverse events

eTable 16. League table for withdrawal due to adverse events

eTable 17. GRADE certainty ratings for withdrawal due to adverse events

eFigure 5. Network graphs for serious adverse events

eTable 18. League table for serious adverse events

eTable 19. GRADE certainty ratings for serious adverse events

eReferences

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Risk of bias assessment for new studies added since baseline review

	Other bias							
	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data	Selective reporting			
Chan UK 2020 ¹	Low	Low	Low	Low	Low	Low	Low	Low
Simpson 2020 BREEZE-AD 1 ²	Unclear	Low	Low	Low	Unclear	Low	Low	Low
Simpson 2020 BREEZE-AD 2 ²	Unclear	Low	Low	Low	Unclear	Low	Low	Low
Simpson USA 2020 Abrocitinib/ NCT03349060 ³	Low	Low	Low	Low	Low	Low	Low	Low
Guttman-Yassky USA 2020 Lebrikizumab ⁴	Unclear	Low	Low	Low	Unclear	Low	Low	Low
Paller USA 2020 Dupilumab ⁵	Low	Low	Low	Low	Low	Low	Low	Low
Reich Germany 2020 (BREEZE-AD7) ⁶	Low	Low	Low	Low	Low	Low	Low	Low
Silverberg USA 2020 (ECZTRA3) ⁷	Low	Low	Low	Low	Low	Low	Low	Low
Wollenberg Germany 2020 (ECZTRA1) ⁸	Low	Low	Low	Low	Low	Low	Low	Low
Wollenberg Germany 2020 (ECZTRA2) ⁸	Low	Low	Low	Low	Low	Low	Low	Low
Kabashima Japan 2020 ⁹	Unclear	Low	Low	Low	Low	Low	Low	Low
Silverberg USA 2020 (JADE MONO-2) ¹⁰	Low	Low	Low	Low	Unclear	Low	Low	Low
Simpson 2021 (BREEZE-AD5) ¹¹	Low	Low	Low	Low	High	Low	Low	Low
NCT03428100 (BREEZE-AD4) ¹²	Low	Low	Low	Low	Unclear	Low	Low	Low
NCT03720470 (JADE Compare) ¹³	Low	Low	Low	Low	Low	Low	Low	Low
NCT03912259 ¹⁴	Low	Low	Low	Low	Low	Low	Low	Low
NCT03796676 (JADE TEEN) ¹⁵	Low	Low	Low	Low	Low	Low	Low	Low
Guttman USA 2021 (MEASURE UP 1) ¹⁶	Low	Low	Low	Low	Unclear	Low	Low	Low

Guttman USA 2021 (MEASURE UP 2) ¹⁶	Low	Low	Low	Low	Unclear	Low	Low
Reich Germany 2021 (AD Up) ¹⁷	Low	Low	Low	Low	Unclear	Unclear	Low
Merola USA 2021 (ECZTRAS) ¹⁸	Low	Low	Low	Low	Low	Low	Low

eTable 2. League table with relative effect estimates for change in EASI up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in EASI (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Dupilumab 600 mg then 300 mg q2 weeks	Placebo	Tralokinumab 600 mg then 300 mg q2 weeks	Upadacitinib 15 mg daily	Upadacitinib 30 mg daily
Abrocitinib 100 mg daily		-4.3 (-6, -2.7)	3.1 (0.5, 5.6)	1.1 (-1.6, 3.7)	-2.1 (-4.1, -0.3)	8.6 (6.9, 10.3)	1.4 (-1.1, 3.9)	-2.3 (-4.7, -0.1)	-4.9 (-7.2, -2.6)
Abrocitinib 200 mg daily	4.3 (2.7, 6)		7.4 (4.8, 9.9)	5.4 (2.7, 8)	2.2 (0.2, 4)	13 (11.3, 14.7)	5.7 (3.2, 8.2)	2 (-0.3, 4.3)	-0.6 (-2.9, 1.7)
Baricitinib 2 mg daily	-3.1 (-5.6, -0.5)	-7.4 (-9.9, -4.8)		-2 (-4.1, 0.1)	-5.2 (-7.5, -2.9)	5.6 (3.7, 7.5)	-1.7 (-4.3, 1)	-5.4 (-7.9, -2.9)	-7.9 (-10.4, -5.5)
Baricitinib 4 mg daily	-1.1 (-3.7, 1.6)	-5.4 (-8, -2.7)	2 (-0.1, 4.1)		-3.2 (-5.7, -0.8)	7.6 (5.5, 9.6)	0.3 (-2.4, 3)	-3.4 (-6, -0.8)	-5.9 (-8.5, -3.4)
Dupilumab 600 mg then 300 mg q2 weeks	2.1 (0.3, 4.1)	-2.2 (-4, -0.2)	5.2 (2.9, 7.5)	3.2 (0.8, 5.7)		10.8 (9.5, 12.2)	3.5 (1.3, 5.8)	-0.2 (-2.2, 1.9)	-2.7 (-4.7, -0.6)
Placebo	-8.6 (-10.3, -6.9)	-13 (-14.7, -11.3)	-5.6 (-7.5, -3.7)	-7.6 (-9.6, -5.5)	-10.8 (-12.2, -9.5)		-7.3 (-9.1, -5.4)	-11 (-12.5, -9.5)	-13.5 (-15.1, -12)
Tralokinumab 600 mg then 300 mg q2 weeks	-1.4 (-3.9, 1.1)	-5.7 (-8.2, -3.2)	1.7 (-1, 4.3)	-0.3 (-3, 2.4)	-3.5 (-5.8, -1.3)	7.3 (5.4, 9.1)		-3.7 (-6.1, -1.4)	-6.3 (-8.6, -3.9)
Upadacitinib 15 mg daily	2.3 (0.1, 4.7)	-2 (-4.3, 0.3)	5.4 (2.9, 7.9)	3.4 (0.8, 6)	0.2 (-1.9, 2.2)	11 (9.5, 12.5)	3.7 (1.4, 6.1)		-2.5 (-4, -1)
Upadacitinib 30 mg daily	4.9 (2.6, 7.2)	0.6 (-1.7, 2.9)	7.9 (5.5, 10.4)	5.9 (3.4, 8.5)	2.7 (0.6, 4.7)	13.5 (12, 15.1)	6.3 (3.9, 8.6)	2.5 (1, 4)	
SUCRA	0.76	0.94	0.55	0.70	0.86	0.11	0.68	0.87	0.95

eTable 3. GRADE certainty ratings for change in EASI up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented as change in EASI (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	4.3 (2.7, 6); high	--	4.3 (2.7, 6); high
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	-3.1 (-5.6, -0.5); high	-3.1 (-5.6, -0.5); high
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	-1.1 (-3.7, 1.6); high	-1.1 (-3.7, 1.6); moderate ^a
Abrocitinib 100 mg daily	Dupilumab	1	0.6 (-1.9, 3.0); high	3.9 (1.4, 6.6); high	2.1 (0.3, 4.1); high
Abrocitinib 100 mg daily	Placebo	4	-8.6 (-10.3, -6.9); high	--	-8.6 (-10.3, -6.9); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-1.4 (-3.9, 1.1); high	-1.4 (-3.9, 1.1); moderate ^a
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	2.3 (0.1, 4.7); high	2.3 (0.1, 4.7); high
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	4.9 (2.6, 7.2); high	4.9 (2.6, 7.2); high
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-7.4 (-9.9, -4.8); high	-7.4 (-9.9, -4.8); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-5.4 (-8, -2.7); high	-5.4 (-8, -2.7); high
Abrocitinib 200 mg daily	Dupilumab	1	-3.0 (-5.4, -0.5); high	-1.3 (-3.8, 1.3); high	-2.2 (-4, -0.2); high
Abrocitinib 200 mg daily	Placebo	4	-13 (-14.7, -11.3); high	--	-13 (-14.7, -11.3); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-5.7 (-8.2, -3.2); high	-5.7 (-8.2, -3.2); high
Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	-2 (-4.3, 0.3); high	-2 (-4.3, 0.3); moderate ^a
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	0.6 (-1.7, 2.9); high	0.6 (-1.7, 2.9); high
Baricitinib 2 mg daily	Baricitinib 4 mg daily	4	2 (-0.1, 4.1); moderate*	--	2 (-0.1, 4.1); low ^a
Baricitinib 2 mg daily	Dupilumab	0	--	5.2 (2.9, 7.5); high	5.2 (2.9, 7.5); high
Baricitinib 2 mg daily	Placebo	5	-5.6 (-7.5, -3.7); high	--	-5.6 (-7.5, -3.7); high
Baricitinib 2 mg daily	Tralokinumab	0	--	1.7 (-1, 4.3); high	1.7 (-1, 4.3); moderate ^a

Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	5.4 (2.9, 7.9); high	5.4 (2.9, 7.9); high
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	7.9 (5.5, 10.4); high	7.9 (5.5, 10.4); high
Baricitinib 4 mg daily	Dupilumab	0	--	3.2 (0.8, 5.7); high	3.2 (0.8, 5.7); high
Baricitinib 4 mg daily	Placebo	4	-7.6 (-9.6, -5.5); high	--	-7.6 (-9.6, -5.5); high
Baricitinib 4 mg daily	Tralokinumab	0	--	-0.3 (-3, 2.4); high	-0.3 (-3, 2.4); high
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	3.4 (0.8, 6); high	3.4 (0.8, 6); high
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	5.9 (3.4, 8.5); high	5.9 (3.4, 8.5); high
Dupilumab	Placebo	7	-10.8 (-12.2, -9.5); high	--	-10.8 (-12.2, -9.5); high
Dupilumab	Tralokinumab	0	--	-3.5 (-5.8, -1.3); high	-3.5 (-5.8, -1.3); high
Dupilumab	Upadacitinib 15 mg daily	0	--	0.2 (-1.9, 2.2); high	0.2 (-1.9, 2.2); high
Dupilumab	Upadacitinib 30 mg daily	0	--	2.7 (0.6, 4.7); high	2.7 (0.6, 4.7); high
Tralokinumab	Upadacitinib 15 mg daily	0	--	3.7 (1.4, 6.1); high	3.7 (1.4, 6.1); high
Tralokinumab	Upadacitinib 30 mg daily	0	--	6.3 (3.9, 8.6); high	6.3 (3.9, 8.6); high
Tralokinumab	Placebo	3	-7.3 (-9.1, -5.4); high	--	-7.3 (-9.1, -5.4); high
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	4	2.5 (1, 4); high	--	2.5 (1, 4); high
Upadacitinib 15 mg daily	Placebo		-11 (-12.5, -9.5); high	--	-11 (-12.5, -9.5); high
Upadacitinib 30 mg daily	Placebo		-13.5 (-15.1, -12); high	--	-13.5 (-15.1, -12); high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

- * Rated down for inconsistency
- a. Rated down for imprecision

eTable 4. League table with relative effect estimates for change in POEM up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in POEM (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Dupilumab 600 mg then 300 mg q2 weeks	Placebo	Tralokinumab 600 mg then 300 mg q2 weeks	Upadacitinib 15 mg daily	Upadacitinib 30 mg daily
Abrocitinib 100 mg daily		-3.2 (-4.2, - 2.2)	1.2 (-0.4, 2.7)	-0.5 (-2.1, 1.1)	-2.3 (-3.5, - 1.2)	5 (3.9, 6)	0.4 (-1.1, 1.8)	-2 (-6.3, 2.2)	-5.6 (-10, - 1.5)
Abrocitinib 200 mg daily	3.2 (2.2, 4.2)		4.4 (2.9, 5.9)	2.7 (1.2, 4.3)	0.9 (-0.2, 2)	8.2 (7.1, 9.2)	3.6 (2.1, 5)	1.2 (-3, 5.4)	-2.4 (-6.7, 1.7)
Baricitinib 2 mg daily	-1.2 (-2.7, 0.4)	-4.4 (-5.9, - 2.9)		-1.6 (-2.8, - 0.5)	-3.5 (-4.8, - 2.2)	3.8 (2.6, 4.9)	-0.8 (-2.3, 0.7)	-3.2 (-7.5, 1.1)	-6.8 (-11.1, - 2.6)
Baricitinib 4 mg daily	0.5 (-1.1, 2.1)	-2.7 (-4.3, - 1.2)	1.6 (0.5, 2.8)		-1.9 (-3.2, - 0.5)	5.4 (4.2, 6.6)	0.8 (-0.7, 2.4)	-1.5 (-5.8, 2.8)	-5.2 (-9.5, - 1)
Dupilumab 600 mg then 300 mg q2 weeks	2.3 (1.2, 3.5)	-0.9 (-2, 0.2)	3.5 (2.2, 4.8)	1.9 (0.5, 3.2)		7.3 (6.6, 8)	2.7 (1.5, 3.9)	0.3 (-3.9, 4.5)	-3.3 (-7.6, 0.8)
Placebo	-5 (-6, -3.9)	-8.2 (-9.2, - 7.1)	-3.8 (-4.9, - 2.6)	-5.4 (-6.6, - 4.2)	-7.3 (-8, - 6.6)		-4.6 (-5.6, - 3.6)	-7 (-11.1, - 2.9)	-10.6 (-14.8, -6.6)
Tralokinumab 600 mg then 300 mg q2 weeks	-0.4 (-1.8, 1.1)	-3.6 (-5, -2.1)	0.8 (-0.7, 2.3)	-0.8 (-2.4, 0.7)	-2.7 (-3.9, - 1.5)	4.6 (3.6, 5.6)		-2.4 (-6.6, 1.8)	-6 (-10.3, - 1.9)
Upadacitinib 15 mg daily	2 (-2.2, 6.3)	-1.2 (-5.4, 3)	3.2 (-1.1, 7.5)	1.5 (-2.8, 5.8)	-0.3 (-4.5, 3.9)	7 (2.9, 11.1)	2.4 (-1.8, 6.6)		-3.7 (-7.7, 0.4)
Upadacitinib 30 mg daily	5.6 (1.5, 10)	2.4 (-1.7, 6.7)	6.8 (2.6, 11.1)	5.2 (1, 9.5)	3.3 (-0.8, 7.6)	10.6 (6.6, 14.8)	6 (1.9, 10.3)	3.7 (-0.4, 7.7)	
SUCRA	0.49	0.85	0.36	0.54	0.72	0.13	0.44	0.69	0.95

eTable 5. GRADE certainty ratings for change in POEM up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented as change in EASI (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	3.2 (2.2, 4.2); high	--	3.2 (2.2, 4.2); high
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--		-1.2 (-2.7, 0.4); moderate ^a
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--		0.5 (-1.1, 2.1); high
Abrocitinib 100 mg daily	Dupilumab	1	1.6 (0.0, 3.2); high	2.9 (1.3, 4.5); high	2.3 (1.2, 3.5); high
Abrocitinib 100 mg daily	Placebo	4	-5 (-6, -3.9); high	--	-5 (-6.0, -3.9); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-0.4 (-1.8, 1.1); high	-0.4 (-1.8, 1.1); high
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	2 (-2.2, 6.3); high	2 (-2.2, 6.3); moderate ^a
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	5.6 (1.5, 10); high	5.6 (1.5, 10); high
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-4.4 (-5.9, -2.9); high	-4.4 (-5.9, -2.9); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-2.7 (-4.3, -1.2); high	-2.7 (-4.3, -1.2); high
Abrocitinib 200 mg daily	Dupilumab	1	-1.7 (-3.3, -0.1); high	-0.2 (-1.7, 1.3); high	-0.9 (-2.0, 0.2); high
Abrocitinib 200 mg daily	Placebo	4	-8.2 (-9.2, -7.1); high	--	-8.2 (-9.2, -7.1); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-3.6 (-5, -2.1); high	-3.6 (-5, -2.1); high
Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	-1.2 (-5.4, 3); high	-1.2 (-5.4, 3.0); moderate ^a
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	2.4 (-1.7, 6.7); high	2.4 (-1.7, 6.7); moderate ^a
Baricitinib 2 mg daily	Baricitinib 4 mg daily	4	1.6 (0.5, 2.8); high	--	1.6 (0.5, 2.8); high
Baricitinib 2 mg daily	Dupilumab	0	--	3.5 (2.2, 4.8); high	3.5 (2.2, 4.8); high
Baricitinib 2 mg daily	Placebo	5	-3.8 (-4.9, -2.6); high	--	-3.8 (-4.9, -2.6); high
Baricitinib 2 mg daily	Tralokinumab	0	--	0.8 (-0.7, 2.3); high	0.8 (-0.7, 2.3); high
Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	3.2 (-1.1, 7.5); high	3.2 (-1.1, 7.5); moderate ^a
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	6.8 (2.6, 11.1); high	6.8 (2.6, 11.1); high

Baricitinib 4 mg daily	Dupilumab	0	--	1.9 (0.5, 3.2); high	1.9 (0.5, 3.2); high
Baricitinib 4 mg daily	Placebo	4	-5.4 (-6.6, -4.2); high	--	-5.4 (-6.6, -4.2); high
Baricitinib 4 mg daily	Tralokinumab	0	--	-0.8 (-2.4, 0.7); high	-0.8 (-2.4, 0.7); high
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	1.5 (-2.8, 5.8); high	1.5 (-2.8, 5.8); moderate ^a
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	5.2 (1, 9.5); high	5.2 (1.0, 9.5); high
Dupilumab	Placebo	7	-7.3 (-8, -6.6); high	--	-7.3 (-8, -6.6); high
Dupilumab	Tralokinumab	0	--	-2.7 (-3.9, -1.5); high	-2.7 (-3.9, -1.5); high
Dupilumab	Upadacitinib 15 mg daily	0	--	-0.3 (-4.5, 3.9); high	-0.3 (-4.5, 3.9); moderate
Dupilumab	Upadacitinib 30 mg daily	0	--	3.3 (-0.8, 7.6); high	3.3 (-0.8, 7.6); moderate ^a
Tralokinumab	Upadacitinib 15 mg daily	0	--	2.4 (-1.8, 6.6); high	2.4 (-1.8, 6.6); moderate ^a
Tralokinumab	Upadacitinib 30 mg daily	0	--	6 (1.9, 10.3); high	6 (1.9, 10.3); high
Tralokinumab	Placebo	3	-4.6 (-5.6, -3.6); high	--	-4.6 (-5.6, -3.6); high
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	1	3.7 (-0.4, 7.7); high	--	3.7 (-0.4, 7.7); moderate ^a
Upadacitinib 15 mg daily	Placebo	1	-7 (-11.1, -2.9); high	--	-7 (-11.1, -2.9); high
Upadacitinib 30 mg daily	Placebo	1	-10.6 (-14.8, -6.6); high	--	-10.6 (-14.8, -6.6); high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

a. Rated down for imprecision

eTable 6. League table with relative effect estimates for change in DLQI up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in DLQI (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Dupilumab 600 mg then 300 mg q2 weeks	Placebo	Tralokinumab 600 mg then 300 mg q2 weeks
Abrocitinib 100 mg daily		-2.1 (-2.9, -1.1)	1.1 (-0.1, 2.4)	-0.1 (-1.4, 1.2)	-1.5 (-2.5, -0.5)	3.4 (2.5, 4.3)	0.4 (-0.8, 1.8)
Abrocitinib 200 mg daily	2.1 (1.1, 2.9)		3.2 (2, 4.5)	1.9 (0.6, 3.3)	0.6 (-0.4, 1.5)	5.5 (4.6, 6.4)	2.5 (1.2, 3.8)
Baricitinib 2 mg daily	-1.1 (-2.4, 0.1)	-3.2 (-4.5, -2)		-1.3 (-2.2, -0.3)	-2.6 (-3.7, -1.6)	2.3 (1.4, 3.1)	-0.7 (-2, 0.6)
Baricitinib 4 mg daily	0.1 (-1.2, 1.4)	-1.9 (-3.3, -0.6)	1.3 (0.3, 2.2)		-1.4 (-2.5, -0.3)	3.5 (2.6, 4.4)	0.6 (-0.8, 1.9)
Dupilumab 600 mg then 300 mg q2 weeks	1.5 (0.5, 2.5)	-0.6 (-1.5, 0.4)	2.6 (1.6, 3.7)	1.4 (0.3, 2.5)		4.9 (4.3, 5.5)	2 (0.8, 3.1)
Placebo	-3.4 (-4.3, -2.5)	-5.5 (-6.4, -4.6)	-2.3 (-3.1, -1.4)	-3.5 (-4.4, -2.6)	-4.9 (-5.5, -4.3)		-3 (-3.9, -2)
Tralokinumab 600 mg then 300 mg q2 weeks	-0.4 (-1.8, 0.8)	-2.5 (-3.8, -1.2)	0.7 (-0.6, 2)	-0.6 (-1.9, 0.8)	-2 (-3.1, -0.8)	3 (2, 3.9)	
SUCRA	0.72	0.96	0.56	0.74	0.90	0.22	0.66

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

eTable 7. GRADE certainty ratings for change in DLQI up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented as change in EASI (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	2.1 (1.1, 2.9); moderate*	--	2.1 (1.1, 2.9); moderate
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	-1.1 (-2.4, 0.1); high	-1.1 (-2.4, 0.1); moderate ^a
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	0.1 (-1.2, 1.4); high	0.1 (-1.2, 1.4); high
Abrocitinib 100 mg daily	Dupilumab	1	1.8 (0.5, 3.1); high	1.1 (-0.4, 2.5)	1.5 (0.5, 2.5); high
Abrocitinib 100 mg daily	Placebo	4	-3.4 (-4.3, -2.5); high	--	-3.4 (-4.3, -2.5); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-0.4 (-1.8, 0.8); high	-0.4 (-1.8, 0.8); high
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-3.2 (-4.5, -2); high	-3.2 (-4.5, -2); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-1.9 (-3.3, -0.6); high	-1.9 (-3.3, -0.6); high
Abrocitinib 200 mg daily	Dupilumab	1	-0.9 (-2.3, 0.5); high	-0.1 (-1.6, 1.4)	-0.6 (-1.5, 0.4); high
Abrocitinib 200 mg daily	Placebo	4	-5.5 (-6.4, -4.6); high	--	-5.5 (-6.4, -4.6); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-2.5 (-3.8, -1.2); high	-2.5 (-3.8, -1.2); high
Baricitinib 2 mg daily	Baricitinib 4 mg daily	5	1.3 (0.3, 2.2); moderate*	--	1.3 (0.3, 2.2); moderate
Baricitinib 2 mg daily	Dupilumab	0	--	2.6 (1.6, 3.7); high	2.6 (1.6, 3.7); high
Baricitinib 2 mg daily	Placebo	6	-2.3 (-3.1, -1.4); high	--	-2.3 (-3.1, -1.4); high
Baricitinib 2 mg daily	Tralokinumab	0	--	0.7 (-0.6, 2); high	0.7 (-0.6, 2); high
Baricitinib 4 mg daily	Dupilumab	0	--	1.4 (0.3, 2.5); high	1.4 (0.3, 2.5); high
Baricitinib 4 mg daily	Placebo	5	-3.5 (-4.4, -2.6); high	--	-3.5 (-4.4, -2.6); high
Baricitinib 4 mg daily	Tralokinumab	0	--	-0.6 (-1.9, 0.8); high	-0.6 (-1.9, 0.8); high
Dupilumab	Placebo	7	-4.9 (-5.5, -4.3); high	--	-4.9 (-5.5, -4.3); high
Dupilumab	Tralokinumab	0	--	-2 (-3.1, -0.8); high	-2 (-3.1, -0.8); high
Tralokinumab	Placebo	3	-3 (-3.9, -2); high	--	-3 (-3.9, -2); high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

a. Rated down for imprecision

* Rated down for inconsistency

eTable 8. League table with relative effect estimates for change in peak pruritus numeric rating scales up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in the numeric rating scales (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Dupilumab 600 mg then 300 mg q2 weeks	Placebo	Tralokinumab 600 mg then 300 mg q2 weeks	Upadacitinib 15 mg once daily	Upadacitinib 30 mg once daily
Abrocitinib 100 mg daily		-0.8 (-1.3, - 0.4)	0.3 (-0.4, 0.9)	-0.1 (-0.9, 0.6)	-0.4 (-1, 0.2)	1.6 (1, 2.1)	0.5 (-0.2, 1.1)	-0.8 (-1.5, - 0.2)	-1.8 (-2.5, - 1.1)
Abrocitinib 200 mg daily	0.8 (0.4, 1.3)		1.1 (0.4, 1.8)	0.7 (0, 1.4)	0.4 (-0.2, 1)	2.4 (1.9, 3)	1.3 (0.6, 1.9)	0 (-0.7, 0.7)	-1 (-1.7, - 0.3)
Baricitinib 2 mg daily	-0.3 (-0.9, 0.4)	-1.1 (-1.8, - 0.4)		-0.4 (-0.8, 0.1)	-0.7 (-1.2, - 0.2)	1.3 (0.9, 1.7)	0.2 (-0.3, 0.7)	-1.1 (-1.7, - 0.5)	-2.1 (-2.7, - 1.5)
Baricitinib 4 mg daily	0.1 (-0.6, 0.9)	-0.7 (-1.4, 0)	0.4 (-0.1, 0.8)		-0.3 (-0.8, 0.2)	1.7 (1.3, 2.2)	0.6 (0.1, 1.1)	-0.7 (-1.3, - 0.1)	-1.7 (-2.3, - 1.1)
Dupilumab 600 mg then 300 mg q2 weeks	0.4 (-0.2, 1)	-0.4 (-1, 0.2)	0.7 (0.2, 1.2)	0.3 (-0.2, 0.8)		2 (1.8, 2.3)	0.9 (0.5, 1.3)	-0.4 (-0.9, 0.1)	-1.4 (-1.9, - 0.9)
Placebo	-1.6 (-2.1, - 1)	-2.4 (-3, -1.9)	-1.3 (-1.7, - 0.9)	-1.7 (-2.2, - 1.3)	-2 (-2.3, - 1.8)		-1.1 (-1.4, - 0.8)	-2.4 (-2.8, -2)	-3.4 (-3.8, - 3)
Tralokinumab 600 mg then 300 mg q2 weeks	-0.5 (-1.1, 0.2)	-1.3 (-1.9, - 0.6)	-0.2 (-0.7, 0.3)	-0.6 (-1.1, - 0.1)	-0.9 (-1.3, - 0.5)	1.1 (0.8, 1.4)		-1.3 (-1.8, - 0.8)	-2.3 (-2.8, - 1.8)
Upadacitinib 15 mg once daily	0.8 (0.2, 1.5)	0 (-0.7, 0.7)	1.1 (0.5, 1.7)	0.7 (0.1, 1.3)	0.4 (-0.1, 0.9)	2.4 (2, 2.8)	1.3 (0.8, 1.8)		-1 (-1.4, - 0.6)
Upadacitinib 30 mg once daily	1.8 (1.1, 2.5)	1 (0.3, 1.7)	2.1 (1.5, 2.7)	1.7 (1.1, 2.3)	1.4 (0.9, 1.9)	3.4 (3, 3.8)	2.3 (1.8, 2.8)	1 (0.6, 1.4)	
SUCRA	0.47	0.74	0.39	0.50	0.60	0.09	0.33	0.74	0.92

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

a. Rated down for imprecision

eTable 9. GRADE certainty ratings for change in peak pruritus numeric rating scales up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented as change in EASI (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	3	0.8 (0.4, 1.3); high	--	0.8 (0.4, 1.3); high
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	-0.3 (-0.9, 0.4); high	-0.3 (-0.9, 0.4); high
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	0.1 (-0.6, 0.9); high	0.1 (-0.6, 0.9); high
Abrocitinib 100 mg daily	Dupilumab	0	--	0.4 (-0.2, 1); high	0.4 (-0.2, 1); high
Abrocitinib 100 mg daily	Placebo	3	-1.6 (-2.1, -1); high	--	-1.6 (-2.1, -1); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-0.5 (-1.1, 0.2); high	-0.5 (-1.1, 0.2); high
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	0.8 (0.2, 1.5); high	0.8 (0.2, 1.5); high
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	1.8 (1.1, 2.5); high	1.8 (1.1, 2.5); high
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-1.1 (-1.8, -0.4); high	-1.1 (-1.8, -0.4); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-0.7 (-1.4, 0); high	-0.7 (-1.4, 0); high
Abrocitinib 200 mg daily	Dupilumab	0	--	-0.4 (-1, 0.2); high	-0.4 (-1, 0.2); high
Abrocitinib 200 mg daily	Placebo	3	-2.4 (-3, -1.9); high	--	-2.4 (-3, -1.9); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-1.3 (-1.9, -0.6); high	-1.3 (-1.9, -0.6); high
Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	0 (-0.7, 0.7); high	0 (-0.7, 0.7); high
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	1 (0.3, 1.7); high	1 (0.3, 1.7); high
Baricitinib 2 mg daily	Baricitinib 4 mg daily	3	0.4 (-0.1, 0.8); high	--	0.4 (-0.1, 0.8); high
Baricitinib 2 mg daily	Dupilumab	0	--	0.7 (0.2, 1.2); high	0.7 (0.2, 1.2); high
Baricitinib 2 mg daily	Placebo	4	-1.3 (-1.7, -0.9); high	--	-1.3 (-1.7, -0.9); high
Baricitinib 2 mg daily	Tralokinumab	0	--	-0.2 (-0.7, 0.3); high	-0.2 (-0.7, 0.3); high
Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	1.1 (0.5, 1.7); high	1.1 (0.5, 1.7) high
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	2.1 (1.5, 2.7); high	2.1 (1.5, 2.7); high
Baricitinib 4 mg daily	Dupilumab	0	--	0.3 (-0.2, 0.8); high	0.3 (-0.2, 0.8); high
Baricitinib 4 mg daily	Placebo	3	-1.7 (-2.2, -1.3); high	--	-1.7 (-2.2, -1.3); high
Baricitinib 4 mg daily	Tralokinumab	0	--	-0.6 (-1.1, -0.1); high	-0.6 (-1.1, -0.1); high
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	0.7 (0.1, 1.3); high	0.7 (0.1, 1.3); high
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	1.7 (1.1, 2.3); high	1.7 (1.1, 2.3); high

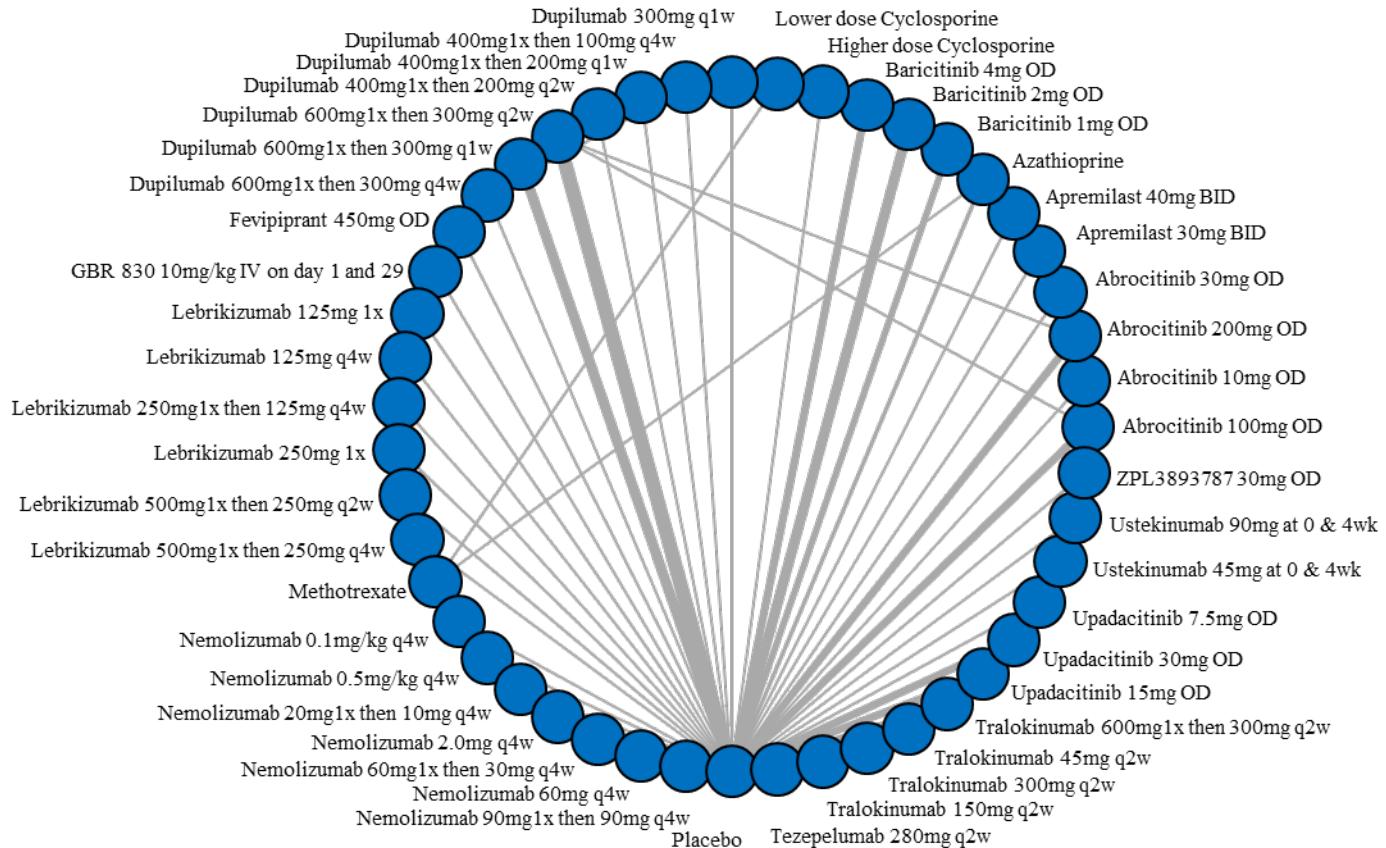
Dupilumab	Placebo	6	-2 (-2.3, -1.8); high	--	-2 (-2.3, -1.8); high
Dupilumab	Tralokinumab	0	--	-0.9 (-1.3, -0.5); high	-0.9 (-1.3, -0.5); high
Dupilumab	Upadacitinib 15 mg daily	0	--	0.4 (-0.1, 0.9); high	0.4 (-0.1, 0.9); high
Dupilumab	Upadacitinib 30 mg daily	0	--	1.4 (0.9, 1.9); high	1.4 (0.9, 1.9); high
Tralokinumab	Upadacitinib 15 mg daily	0	--	1.3 (0.8, 1.8); high	1.3 (0.8, 1.8); high
Tralokinumab	Upadacitinib 30 mg daily	0	--	2.3 (1.8, 2.8); high	2.3 (1.8, 2.8); high
Tralokinumab	Placebo	3	-1.1 (-1.4, -0.8); high	--	-1.1 (-1.4, -0.8); high
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	3	1 (0.6, 1.4); high	--	1 (0.6, 1.4); high
Upadacitinib 15 mg daily	Placebo	3	-2.4 (-2.8, -2); high	--	-2.4 (-2.8, -2); high
Upadacitinib 30 mg daily	Placebo	3	-3.4 (-3.8, -3); high	--	-3.4 (-3.8, -3); high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

a. Rated down for imprecision

eFigure 1. Network graphs of studies included in the analysis of adults treated between 8 and 16 weeks for change in signs on the standardized mean difference scale. The width of each line connecting two treatments (nodes) is proportional to the number of head-to-head trials for that comparison.



OD: once daily; q1w: once weekly; q2w: every 2 weeks; q4w: every 4 weeks.

eTable 10. League table with relative effect estimates for change in signs up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in standardized mean difference of signs scales (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Azathioprine	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Cyclosporine (higher dose)	Cyclosporine (lower dose)	Dupilumab*	Methotrexate	Placebo	Tralokinumab*	Upadacitinib 15 mg daily	Upadacitinib 30 mg daily
Abrocitinib 100 mg daily		-0.4 (-0.6, -0.3)	0.1 (-0.3, 0.6)	0.4 (0.2, 0.6)	0.3 (0, 0.5)	-0.3 (-0.9, 0.4)	0 (-0.6, 0.7)	-0.1 (-0.3, 0)	0.1 (-0.5, 0.7)	0.8 (0.6, 0.9)	0.2 (0, 0.4)	-0.4 (-0.6, -0.2)	-0.6 (-0.8, -0.4)
Abrocitinib 200 mg daily	0.4 (0.3, 0.6)		0.6 (0.1, 1)	0.8 (0.6, 1)	0.7 (0.5, 0.9)	0.1 (-0.5, 0.8)	0.4 (-0.2, 1.1)	0.3 (0.1, 0.4)	0.5 (-0.1, 1.2)	1.2 (1, 1.3)	0.6 (0.4, 0.8)	0 (-0.2, 0.2)	-0.2 (-0.4, 0)
Azathioprine	-0.1 (-0.6, 0.3)	-0.6 (-1, -0.1)		0.2 (-0.2, 0.7)	0.1 (-0.3, 0.5)	-0.4 (-1, 0.2)	-0.1 (-0.7, 0.5)	-0.3 (-0.7, 0.1)	0 (-0.6, 0.5)	0.6 (0.2, 1)	0 (-0.4, 0.5)	-0.5 (-0.9, -0.1)	-0.8 (-1.2, -0.3)
Baricitinib 2 mg daily	-0.4 (-0.6, -0.2)	-0.8 (-1, -0.6)	-0.2 (-0.7, 0.2)		-0.1 (-0.3, 0)	-0.7 (-1.3, 0)	-0.4 (-1, 0.3)	-0.5 (-0.7, -0.3)	-0.3 (-0.9, 0.4)	0.4 (0.2, 0.5)	-0.2 (-0.4, 0)	-0.8 (-1, -0.6)	-1 (-1.2, -0.8)
Baricitinib 4 mg daily	-0.3 (-0.5, 0)	-0.7 (-0.9, -0.5)	-0.1 (-0.5, 0.3)	0.1 (0, 0.3)		-0.5 (-1.1, 0.1)	-0.2 (-0.9, 0.4)	-0.4 (-0.6, -0.2)	-0.1 (-0.8, 0.5)	0.5 (0.4, 0.7)	-0.1 (-0.3, 0.1)	-0.6 (-0.8, -0.4)	-0.9 (-1.1, -0.7)
Cyclosporine (higher dose)	0.3 (-0.4, 0.9)	-0.1 (-0.8, 0.5)	0.4 (-0.2, 1)	0.7 (0, 1.3)	0.5 (-0.1, 1.1)		0.3 (-0.1, 0.7)	0.2 (-0.5, 0.8)	0.4 (-0.2, 0.9)	1 (0.4, 1.6)	0.5 (-0.2, 1.1)	-0.1 (-0.7, 0.5)	-0.4 (-1, 0.3)
Cyclosporine (lower dose)	0 (-0.7, 0.6)	-0.4 (-1.1, 0.2)	0.1 (-0.5, 0.7)	0.4 (-0.3, 1)	0.2 (-0.4, 0.9)	-0.3 (-0.7, 0.1)		-0.2 (-0.8, 0.5)	0.1 (-0.4, 0.6)	0.7 (0.1, 1.4)	0.2 (-0.5, 0.8)	-0.4 (-1, 0.2)	-0.7 (-1.3, 0)
Dupilumab*	0.1 (0, 0.3)	-0.3 (-0.4, -0.1)	0.3 (-0.1, 0.7)	0.5 (0.3, 0.7)	0.4 (0.2, 0.6)	-0.2 (-0.8, 0.5)	0.2 (-0.5, 0.8)		0.2 (-0.4, 0.9)	0.9 (0.8, 1)	0.3 (0.1, 0.5)	-0.2 (-0.4, -0.1)	-0.5 (-0.7, -0.3)
Methotrexate	-0.1 (-0.7, 0.5)	-0.5 (-1.2, 0.1)	0 (-0.5, 0.6)	0.3 (-0.4, 0.9)	0.1 (-0.5, 0.8)	-0.4 (-0.9, 0.8)	-0.1 (-0.6, 0.2)	-0.2 (-0.9, 0.4)		0.6 (0, 1.3)	0.1 (-0.6, 0.7)	-0.5 (-1.1, 0.1)	-0.8 (-1.4, -0.1)
Placebo	-0.8 (-0.9, -0.6)	-1.2 (-1.3, -1)	-0.6 (-1, -0.2)	-0.4 (-0.5, -0.2)	-0.5 (-0.7, -0.4)	-1 (-1.6, -0.4)	-0.7 (-1.4, -0.1)	-0.9 (-1, -0.8)	-0.6 (-1.3, 0)		-0.6 (-0.7, -0.4)	-1.1 (-1.3, -1)	-1.4 (-1.5, -1.3)
Tralokinumab*	-0.2 (-0.4, 0)	-0.6 (-0.8, -0.4)	0 (-0.5, 0.4)	0.2 (0, 0.4)	0.1 (-0.1, 0.3)	-0.5 (-1.1, 0.2)	-0.2 (-0.8, 0.5)	-0.3 (-0.5, -0.1)	-0.1 (-0.7, 0.6)	0.6 (0.4, 0.7)		-0.6 (-0.7, -0.4)	-0.8 (-1, -0.6)
Upadacitinib 15 mg daily	0.4 (0.2, 0.6)	0 (-0.2, 0.2)	0.5 (0.1, 0.9)	0.8 (0.6, 1)	0.6 (0.4, 0.8)	0.1 (-0.5, 0.7)	0.4 (-0.2, 1)	0.2 (0.1, 0.4)	0.5 (-0.1, 1.1)	1.1 (1, 1.3)	0.6 (0.4, 0.7)		-0.3 (-0.4, -0.1)
Upadacitinib 30 mg daily	0.6 (0.4, 0.8)	0.2 (0, 0.4)	0.8 (0.3, 1.2)	1 (0.8, 1.2)	0.9 (0.7, 1.1)	0.4 (-0.3, 1)	0.7 (0, 1.3)	0.5 (0.3, 0.7)	0.8 (0.1, 1.4)	1.4 (1.3, 1.5)	0.8 (0.6, 1)	0.3 (0.1, 0.4)	
SUCRA	0.72	0.91	0.59	0.38	0.51	0.83	0.66	0.80	0.60	0.09	0.58	0.90	0.96

*Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

eTable 11. GRADE certainty ratings for change in the standardized mean difference of clinical signs up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented standardized mean difference (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	0.4 (0.3, 0.6); high	--	0.4 (0.3, 0.6); high
Abrocitinib 100 mg daily	Azathioprine	0	--	-0.1 (-0.6, 0.3); moderate ^a	-0.1 (-0.6, 0.3); low ^b
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	-0.4 (-0.6, -0.2); high	-0.4 (-0.6, -0.2); high
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	-0.3 (-0.5, 0); high	-0.3 (-0.5, 0); high
Abrocitinib 100 mg daily	Cyclosporine (higher dose)	0	--	0.3 (-0.4, 0.9); moderate ^a	0.3 (-0.4, 0.9); low ^b
Abrocitinib 100 mg daily	Cyclosporine (lower dose)	0	--	0 (-0.7, 0.6); moderate ^a	0 (-0.7, 0.6); low ^b
Abrocitinib 100 mg daily	Dupilumab	1	0.1 (-0.1, 0.3); high	0.2 (0.0, 0.4); high	0.1 (0, 0.3); high
Abrocitinib 100 mg daily	Methotrexate	0	--	-0.1 (-0.7, 0.5); moderate ^a	-0.1 (-0.7, 0.5); low ^b
Abrocitinib 100 mg daily	Placebo	4	-0.8 (-0.9, -0.6); high	--	-0.8 (-0.9, -0.6); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-0.2 (-0.4, 0); high	-0.2 (-0.4, 0); high
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	0.4 (0.2, 0.6); high	0.4 (0.2, 0.6); high
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	0.6 (0.4, 0.8); high	0.6 (0.4, 0.8); high
Abrocitinib 200 mg daily	Azathioprine	0	--	-0.6 (-1, -0.1); high	-0.6 (-1, -0.1); high
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-0.8 (-1, -0.6); high	-0.8 (-1, -0.6); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-0.7 (-0.9, -0.5); high	-0.7 (-0.9, -0.5); high
Abrocitinib 200 mg daily	Cyclosporine (higher dose)	0	--	-0.1 (-0.8, 0.5); moderate ^a	-0.1 (-0.8, 0.5); low ^b
Abrocitinib 200 mg daily	Cyclosporine (lower dose)	0	--	-0.4 (-1.1, 0.2); moderate ^a	-0.4 (-1.1, 0.2); low ^b
Abrocitinib 200 mg daily	Dupilumab	1	-0.3 (-0.5, -0.1); high	-0.2 (-0.5, 0); high	-0.3 (-0.4, -0.1); high
Abrocitinib 200 mg daily	Methotrexate	0	--	-0.5 (-1.2, 0.1); moderate ^a	-0.5 (-1.2, 0.1); low ^b

Abrocitinib 200 mg daily	Placebo	4	-1.2 (-1.3, -1); high	--	-1.2 (-1.3, -1); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-0.6 (-0.8, -0.4); high	-0.6 (-0.8, -0.4); high
Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	0 (-0.2, 0.2); high	0 (-0.2, 0.2); high
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	0.2 (0, 0.4); high	0.2 (0, 0.4); moderate ^b
Azathioprine	Baricitinib 2 mg daily	0	--	-0.2 (-0.7, 0.2); moderate ^a	-0.2 (-0.7, 0.2); low ^b
Azathioprine	Baricitinib 4 mg daily	0	--	-0.1 (-0.5, 0.3); moderate ^a	-0.1 (-0.5, 0.3); moderate
Azathioprine	Cyclosporine (higher dose)	0	--	0.4 (-0.2, 1); moderate ^a	0.4 (-0.2, 1); low ^b
Azathioprine	Cyclosporine (lower dose)	0	--	0.1 (-0.5, 0.7); moderate ^a	0.1 (-0.5, 0.7); moderate
Azathioprine	Dupilumab	0	--	0.3 (-0.1, 0.7); moderate ^a	0.3 (-0.1, 0.7); low ^b
Azathioprine	Methotrexate	1	0 (-0.6, 0.6); moderate ^a	0.1 (-1.0, 1.2); moderate ^a	0 (-0.5, 0.6); moderate
Azathioprine	Placebo	1	-0.6 (-1.1, -0.2); moderate ^a	-0.7 (-1.8, 0.5); moderate ^a	-0.6 (-1.0, -0.2); moderate
Azathioprine	Tralokinumab	0	--	0 (-0.5, 0.4); moderate ^a	0 (-0.5, 0.4); moderate
Azathioprine	Upadacitinib 15 mg daily	0	--	0.5 (0.1, 0.9); moderate ^a	0.5 (0.1, 0.9); moderate
Azathioprine	Upadacitinib 30 mg daily	0	--	0.8 (0.3, 1.2); moderate ^a	0.8 (0.3, 1.2); moderate
Baricitinib 2 mg daily	Baricitinib 4 mg daily	4	0.1 (0, 0.3); moderate*	--	0.1 (0, 0.3); moderate
Baricitinib 2 mg daily	Cyclosporine (higher dose)	0	--	0.7 (0, 1.3); moderate ^a	0.7 (0, 1.3); low ^b
Baricitinib 2 mg daily	Cyclosporine (lower dose)	0	--	0.4 (-0.3, 1); moderate ^a	0.4 (-0.3, 1); low ^b
Baricitinib 2 mg daily	Dupilumab	0	--	0.5 (0.3, 0.7); high	0.5 (0.3, 0.7); high
Baricitinib 2 mg daily	Methotrexate	0	--	0.3 (-0.4, 0.9); moderate ^a	0.3 (-0.4, 0.9); low ^b
Baricitinib 2 mg daily	Placebo	5	-0.4 (-0.5, -0.2); high	--	-0.4 (-0.5, -0.2); high
Baricitinib 2 mg daily	Tralokinumab	0	--	0.2 (0, 0.4); high	0.2 (0, 0.4); moderate ^b

Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	0.8 (0.6, 1); high	0.8 (0.6, 1); high
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	1 (0.8, 1.2); high	1 (0.8, 1.2); high
Baricitinib 4 mg daily	Cyclosporine (higher dose)	0	--	0.5 (-0.1, 1.1); moderate ^a	0.5 (-0.1, 1.1); low ^b
Baricitinib 4 mg daily	Cyclosporine (lower dose)	0	--	0.2 (-0.4, 0.9); moderate ^a	0.2 (-0.4, 0.9); low ^b
Baricitinib 4 mg daily	Dupilumab	0	--	0.4 (0.2, 0.6); high	0.4 (0.2, 0.6); high
Baricitinib 4 mg daily	Methotrexate	0	--	0.1 (-0.5, 0.8); moderate ^a	0.1 (-0.5, 0.8); moderate
Baricitinib 4 mg daily	Placebo	4	-0.5 (-0.7, -0.4); high	--	-0.5 (-0.7, -0.4); high
Baricitinib 4 mg daily	Tralokinumab	0	--	0.1 (-0.1, 0.3); high	0.1 (-0.1, 0.3); high
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	0.6 (0.4, 0.8); high	0.6 (0.4, 0.8); high
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	0.9 (0.7, 1.1); high	0.9 (0.7, 1.1); high
Cyclosporine (higher dose)	Cyclosporine (lower dose)	1	-0.3 (-0.7, 0.1); moderate ^a	-0.4 (-1.5, 0.8); moderate ^a	-0.3 (-0.7, 0.1); low ^b
Cyclosporine (higher dose)	Dupilumab	0	--	-0.2 (-0.8, 0.5); high	-0.2 (-0.8, 0.5); low ^b
Cyclosporine (higher dose)	Methotrexate	0	--	-0.4 (-0.9, 0.2); moderate ^a	-0.4 (-0.9, 0.2); low ^b
Cyclosporine (higher dose)	Placebo	1	-1 (-1.8, -0.3); moderate ^a	-1 (-2.1, 0); moderate ^a	-1 (-1.6, -0.4); moderate
Cyclosporine (higher dose)	Tralokinumab	0	--	-0.5 (-1.1, 0.2); moderate ^a	-0.5 (-1.1, 0.2); low ^b
Cyclosporine (higher dose)	Upadacitinib 15 mg daily	0	--	0.1 (-0.5, 0.7); moderate ^a	0.1 (-0.5, 0.7); moderate
Cyclosporine (higher dose)	Upadacitinib 30 mg daily	0	--	0.4 (-0.3, 1); moderate ^a	0.4 (-0.3, 1); low ^b
Cyclosporine (lower dose)	Dupilumab	0	--	0.2 (-0.5, 0.8); moderate ^a	0.2 (-0.5, 0.8); low ^b
Cyclosporine (lower dose)	Methotrexate	1	-0.1 (-0.6, 0.5); moderate ^a	-0.1 (-1.2, 1.0); moderate ^a	-0.1 (-0.6, 0.4); moderate
Cyclosporine (lower dose)	Placebo	0	--	-0.7 (-1.4, -0.1); moderate ^a	-0.7 (-1.4, -0.1); moderate
Cyclosporine (lower dose)	Tralokinumab	0	--	-0.2 (-0.8, 0.5); moderate ^a	-0.2 (-0.8, 0.5); low ^b
Cyclosporine (lower dose)	Upadacitinib 15 mg daily	0	--	0.4 (-0.2, 1); moderate ^a	0.4 (-0.2, 1); low ^b

Cyclosporine (lower dose)	Upadacitinib 30 mg daily	0	--	0.7 (0, 1.3); moderate ^a	0.7 (0, 1.3); low ^b
Dupilumab	Methotrexate	0	--	-0.2 (-0.9, 0.4); moderate ^a	-0.2 (-0.9, 0.4); low ^b
Dupilumab	Placebo	7	-0.9 (-1, -0.8); high	--	-0.9 (-1, -0.8); high
Dupilumab	Tralokinumab	0	--	-0.3 (-0.5, -0.1); high	-0.3 (-0.5, -0.1); high
Dupilumab	Upadacitinib 15 mg daily	0	--	0.2 (0.1, 0.4); high	0.2 (0.1, 0.4); high
Dupilumab	Upadacitinib 30 mg daily	0	--	0.5 (0.3, 0.7); high	0.5 (0.3, 0.7); high
Methotrexate	Placebo	0	--	-0.6 (-1.3, 0); moderate ^a	-0.6 (-1.3, 0); low ^b
Methotrexate	Tralokinumab	0	--	-0.1 (-0.7, 0.6); moderate ^a	-0.1 (-0.7, 0.6); moderate
Methotrexate	Upadacitinib 15 mg daily	0	--	0.5 (-0.1, 1.1); moderate ^a	0.5 (-0.1, 1.1); low ^b
Methotrexate	Upadacitinib 30 mg daily	0	--	0.8 (0.1, 1.4); moderate ^a	0.8 (0.1, 1.4); moderate
Tralokinumab	Placebo	3	-0.6 (-0.7, -0.4); high	--	-0.6 (-0.7, -0.4); high
Tralokinumab	Upadacitinib 15 mg daily	0	--	0.6 (0.4, 0.7); high	0.6 (0.4, 0.7); high
Tralokinumab	Upadacitinib 30 mg daily	0	--	0.8 (0.6, 1); high	0.8 (0.6, 1); high
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	4	0.3 (0.1, 0.4); high	--	0.3 (0.1, 0.4); high
Upadacitinib 15 mg daily	Placebo	4	-1.1 (-1.3, -1); high	--	-1.1 (-1.3, -1); high
Upadacitinib 30 mg daily	Placebo	4	-1.4 (-1.5, -1.3); high	--	-1.4 (-1.5, -1.3); high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

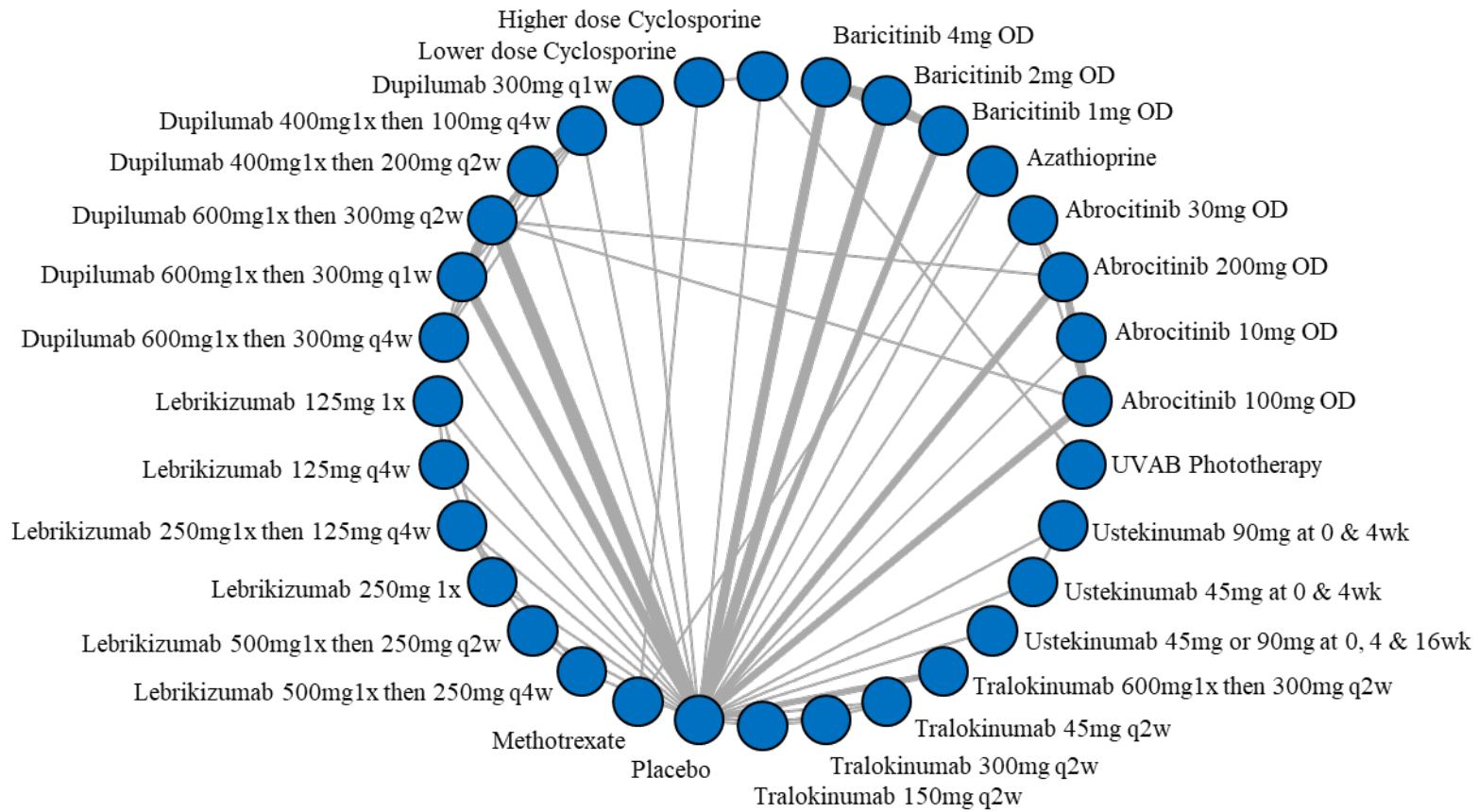
The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

* Rated down for inconsistency

a. Rated down for significant issues related to risk of bias in included trials

b. Rated down for imprecision

eFigure 2. Network graphs of studies included in the analysis of adults treated between 8 and 16 weeks for change in quality of life on the standardized mean difference scale. The width of each line connecting two treatments (nodes) is proportional to the number of head-to-head trials for that comparison.



OD: once daily; q1w: once weekly; q2w: every 2 weeks; q4w: every 4 weeks.

eTable 12. League table with relative effect estimates for change in quality of life up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in standardized mean difference of quality of life scales (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Azathioprine	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Cyclosporine (higher dose)	Cyclosporine (lower dose)	Dupilumab*	Methotrexate	Placebo	Tralokinumab*
Abrocitinib 100 mg daily		-0.3 (-0.5, -0.2)	0.2 (-0.4, 0.7)	0.2 (0, 0.4)	0 (-0.3, 0.2)	-0.1 (-0.8, 0.5)	0.1 (-0.6, 0.8)	-0.3 (-0.4, - 0.1)	0.2 (-0.5, 0.8)	0.6 (0.4, 0.7)	0.2 (-0.1, 0.4)
Abrocitinib 200 mg daily	0.3 (0.2, 0.5)		0.5 (0, 1.1)	0.5 (0.3, 0.8)	0.3 (0, 0.5)	0.2 (-0.4, 0.8)	0.4 (-0.3, 1.1)	0.1 (-0.1, 0.3)	0.5 (-0.2, 1.2)	0.9 (0.7, 1.1)	0.5 (0.3, 0.7)
Azathioprine	-0.2 (-0.7, 0.4)	-0.5 (-1.1, 0)		0 (-0.5, 0.6)	-0.2 (-0.8, 0.3)	-0.3 (-1, 0.3)	-0.1 (-0.7, 0.6)	-0.4 (-1, 0.1)	0 (-0.6, 0.5)	0.4 (-0.1, 0.9)	0 (-0.6, 0.5)
Baricitinib 2 mg daily	-0.2 (-0.4, 0)	-0.5 (-0.8, -0.3)	0 (-0.6, 0.5)		-0.3 (-0.4, - 0.1)	-0.3 (-1, 0.3)	-0.1 (-0.8, 0.5)	-0.5 (-0.7, - 0.3)	0 (-0.7, 0.6)	0.4 (0.2, 0.5)	0 (-0.3, 0.2)
Baricitinib 4 mg daily	0 (-0.2, 0.3)	-0.3 (-0.5, 0)	0.2 (-0.3, 0.8)	0.3 (0.1, 0.4)		-0.1 (-0.7, 0.5)	0.1 (-0.5, 0.8)	-0.2 (-0.4, 0)	0.2 (-0.5, 0.9)	0.6 (0.4, 0.8)	0.2 (0, 0.4)
Cyclosporine (higher dose)	0.1 (-0.5, 0.8)	-0.2 (-0.8, 0.4)	0.3 (-0.3, 1)	0.3 (-0.3, 1)	0.1 (-0.5, 0.7)		0.2 (-0.2, 0.6)	-0.1 (-0.7, 0.5)	0.3 (-0.3, 0.9)	0.7 (0.1, 1.3)	0.3 (-0.3, 0.9)
Cyclosporine (lower dose)	-0.1 (-0.8, 0.6)	-0.4 (-1.1, 0.3)	0.1 (-0.6, 0.7)	0.1 (-0.5, 0.8)	-0.1 (-0.8, 0.5)	-0.2 (-0.6, 0.2)		-0.3 (-1, 0.3)	0.1 (-0.4, 0.6)	0.5 (-0.2, 1.1)	0.1 (-0.6, 0.8)
Dupilumab*	0.3 (0.1, 0.4)	-0.1 (-0.3, 0.1)	0.4 (-0.1, 1)	0.5 (0.3, 0.7)	0.2 (0, 0.4)	0.1 (-0.5, 0.7)	0.3 (-0.3, 1)		0.4 (-0.3, 1.1)	0.8 (0.7, 0.9)	0.4 (0.2, 0.6)
Methotrexate	-0.2 (-0.8, 0.5)	-0.5 (-1.2, 0.2)	0 (-0.5, 0.6)	0 (-0.6, 0.7)	-0.2 (-0.9, 0.5)	-0.3 (-0.9, 0.5)	-0.1 (-0.6, 0.4)	-0.4 (-1.1, 0.3)		0.4 (-0.3, 1.1)	0 (-0.7, 0.7)
Placebo	-0.6 (-0.7, - 0.4)	-0.9 (-1.1, -0.7)	-0.4 (-0.9, 0.1)	-0.4 (-0.5, - 0.2)	-0.6 (-0.8, - 0.4)	-0.7 (-1.3, - 0.1)	-0.5 (-1.1, 0.2)	-0.8 (-0.9, - 0.7)	-0.4 (-1.1, 0.3)		-0.4 (-0.6, -0.3)
Tralokinumab*	-0.2 (-0.4, 0.1)	-0.5 (-0.7, -0.3)	0 (-0.5, 0.6)	0 (-0.2, 0.3)	-0.2 (-0.4, 0)	-0.3 (-0.9, 0.3)	-0.1 (-0.8, 0.6)	-0.4 (-0.6, - 0.2)	0 (-0.7, 0.7)	0.4 (0.3, 0.6)	
SUCRA	0.70	0.93	0.53	0.51	0.74	0.78	0.60	0.88	0.53	0.18	0.56

*Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

eTable 13. GRADE certainty ratings for change in the standardized mean difference of quality of life up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented standardized mean difference (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	0.3 (0.2, 0.5); moderate*	--	0.3 (0.2, 0.5); moderate
Abrocitinib 100 mg daily	Azathioprine	0	--	-0.2 (-0.7, 0.4); moderate ^a	-0.2 (-0.7, 0.4); low ^b
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	-0.2 (-0.4, 0); high	-0.2 (-0.4, 0); moderate ^b
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	0 (-0.2, 0.3); high	0 (-0.2, 0.3); high
Abrocitinib 100 mg daily	Cyclosporine (higher dose)	0	--	0.1 (-0.5, 0.8); moderate ^a	0.1 (-0.5, 0.8); low ^b
Abrocitinib 100 mg daily	Cyclosporine (lower dose)	0	--	-0.1 (-0.8, 0.6); moderate ^a	-0.1 (-0.8, 0.6); low ^b
Abrocitinib 100 mg daily	Dupilumab	1	0.4 (0.1, 0.6); high	0.2 (-0.1, 0.4); high	0.3 (0.1, 0.4); high
Abrocitinib 100 mg daily	Methotrexate	0	--	0.2 (-0.8, 0.5); moderate ^a	-0.2 (-0.8, 0.5); low ^b
Abrocitinib 100 mg daily	Placebo	4	-0.6 (-0.7, -0.4); high	--	-0.6 (-0.7, -0.4); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-0.2 (-0.4, 0.1); high	-0.2 (-0.4, 0.1); moderate ^b
Abrocitinib 200 mg daily	Azathioprine	0	--	-0.5 (-1.1, 0); moderate ^a	-0.5 (-1.1, 0); low ^b
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-0.5 (-0.8, -0.3); high	-0.5 (-0.8, -0.3); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-0.3 (-0.5, 0); high	-0.3 (-0.5, 0); moderate ^b
Abrocitinib 200 mg daily	Cyclosporine (higher dose)	0	--	-0.2 (-0.8, 0.4); moderate ^a	-0.2 (-0.8, 0.4); low ^b
Abrocitinib 200 mg daily	Cyclosporine (lower dose)	0	--	-0.4 (-1.1, 0.3); moderate ^a	-0.4 (-1.1, 0.3); low ^b

Abrocitinib 200 mg daily	Dupilumab	1	-0.2 (-0.4, 0); high	0 (-3, 3); high	-0.1 (-0.3, 0.1); high
Abrocitinib 200 mg daily	Methotrexate	0	--	-0.5 (-1.2, 0.2); moderate ^a	-0.5 (-1.2, 0.2); low ^b
Abrocitinib 200 mg daily	Placebo	4	-0.9 (-1.1, -0.7); high	--	-0.9 (-1.1, -0.7); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-0.5 (-0.7, -0.3); high	-0.5 (-0.7, -0.3); high
Azathioprine	Baricitinib 2 mg daily	0	--	0 (-0.6, 0.5); moderate ^a	0 (-0.6, 0.5); moderate
Azathioprine	Baricitinib 4 mg daily	0	--	0.2 (-0.3, 0.8); moderate ^a	0.2 (-0.3, 0.8); low ^b
Azathioprine	Cyclosporine (higher dose)	0	--	0.3 (-0.3, 1); moderate ^a	0.3 (-0.3, 1); low ^b
Azathioprine	Cyclosporine (lower dose)	0	--	0.1 (-0.6, 0.7); moderate ^a	0.1 (-0.6, 0.7); moderate
Azathioprine	Dupilumab	0	--	0.4 (-0.1, 1); moderate ^a	0.4 (-0.1, 1); low ^b
Azathioprine	Methotrexate	1	0.2 (-0.4, 0.9); moderate ^a	-0.7 (-1.9, 0.4); moderate ^a	0 (-0.5, 0.6); moderate
Azathioprine	Placebo	1	-0.6 (-1.2, 0); moderate ^a	0.4 (-0.8, 1.6); moderate ^a	-0.4 (-0.9, 0.1); low ^b
Azathioprine	Tralokinumab	0	--	0 (-0.5, 0.6); moderate ^a	0 (-0.5, 0.6); moderate
Baricitinib 2 mg daily	Baricitinib 4 mg daily	5	0.3 (0.1, 0.4); high	--	0.3 (0.1, 0.4); high
Baricitinib 2 mg daily	Cyclosporine (higher dose)	0	--	0.3 (-0.3, 1); moderate ^a	0.3 (-0.3, 1); low ^b
Baricitinib 2 mg daily	Cyclosporine (lower dose)	0	--	0.1 (-0.5, 0.8); moderate ^a	0.1 (-0.5, 0.8); low ^b
Baricitinib 2 mg daily	Dupilumab	0	--	0.5 (0.3, 0.7); high	0.5 (0.3, 0.7); high
Baricitinib 2 mg daily	Methotrexate	0	--	0 (-0.6, 0.7); moderate ^a	0 (-0.6, 0.7); moderate
Baricitinib 2 mg daily	Placebo	6	-0.4 (-0.5, -0.2); high	--	-0.4 (-0.5, -0.2); high
Baricitinib 2 mg daily	Tralokinumab	0	--	0 (-0.2, 0.3); high	0 (-0.2, 0.3); high
Baricitinib 4 mg daily	Cyclosporine (higher dose)	0	--	0.1 (-0.5, 0.7); moderate ^a	0.1 (-0.5, 0.7); moderate
Baricitinib 4 mg daily	Cyclosporine (lower dose)	0	--	-0.1 (-0.8, 0.5); moderate ^a	-0.1 (-0.8, 0.5); low ^b

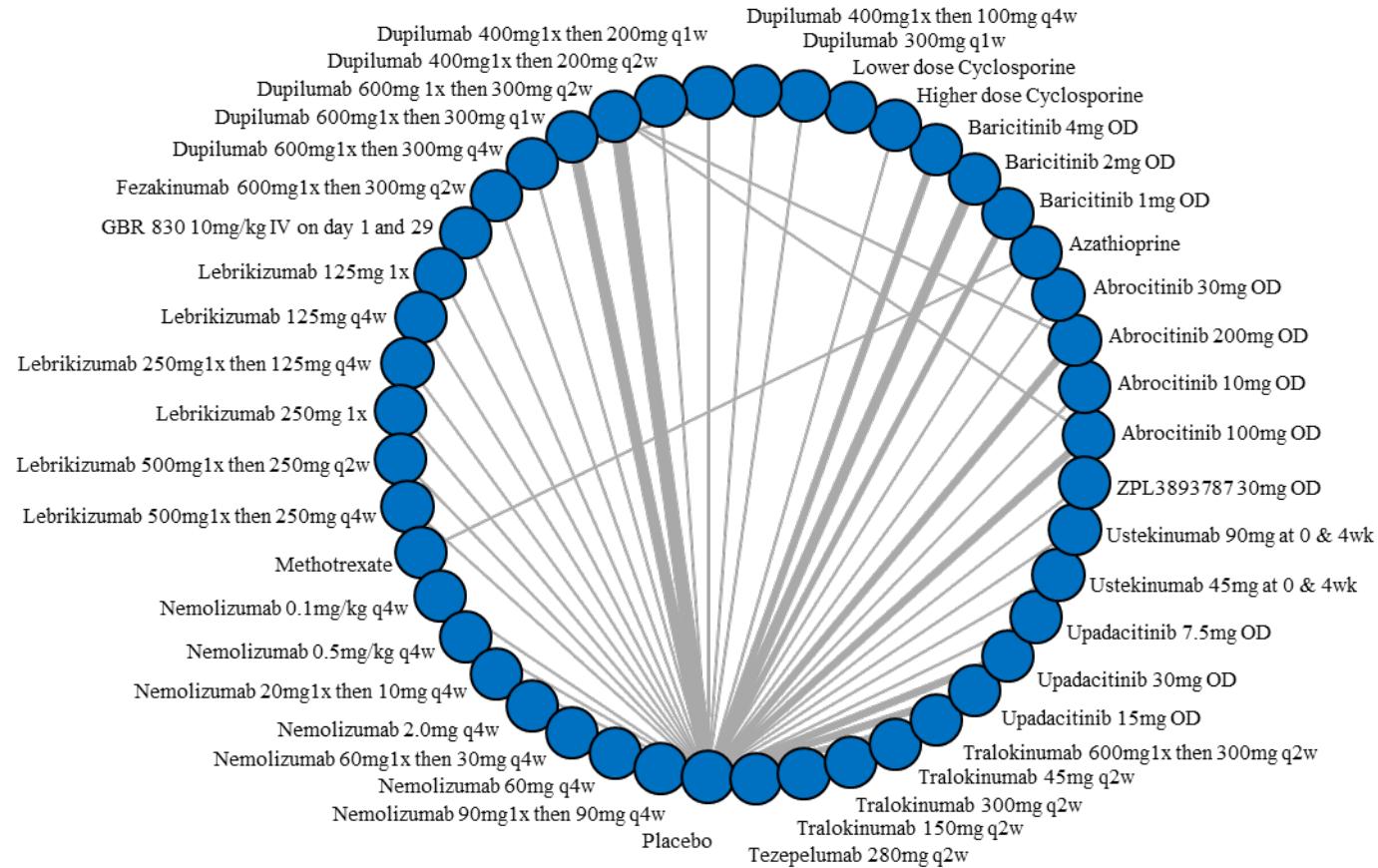
Baricitinib 4 mg daily	Dupilumab	0	--	0.2 (0, 0.4); high	0.2 (0, 0.4); moderate ^b
Baricitinib 4 mg daily	Methotrexate	0	--	-0.2 (-0.9, 0.5); moderate ^a	-0.2 (-0.9, 0.5); low ^b
Baricitinib 4 mg daily	Placebo	5	-0.6 (-0.8, -0.4); high	--	-0.6 (-0.8, -0.4); high
Baricitinib 4 mg daily	Tralokinumab	0	--	-0.6 (-0.8, -0.4); high	-0.2 (-0.4, 0); moderate ^b
Cyclosporine (higher dose)	Cyclosporine (lower dose)	1	-0.3 (-0.8, 0.1); moderate ^a	0.6 (-0.6, 1.9); moderate ^a	-0.2 (-0.6, 0.2); low ^b
Cyclosporine (higher dose)	Dupilumab	0	--	0.1 (-0.5, 0.7); moderate ^a	0.1 (-0.5, 0.7); moderate
Cyclosporine (higher dose)	Methotrexate	0	--	-0.3 (-0.9, 0.3); moderate ^a	-0.3 (-0.9, 0.3); low ^b
Cyclosporine (higher dose)	Placebo	1	-0.4 (-1.1, 0.3); moderate ^a	-1.4 (-2.5, 0.3); moderate ^a	-0.7 (-1.3, -0.1); moderate
Cyclosporine (higher dose)	Tralokinumab	0	--	-0.3 (-0.9, 0.3); moderate ^a	-0.3 (-0.9, 0.3); low ^b
Cyclosporine (lower dose)	Dupilumab	0	--	0.3 (-0.3, 1); moderate ^a	0.3 (-0.3, 1); low ^b
Cyclosporine (lower dose)	Methotrexate	1	-0.2 (-0.8, 0.3); moderate ^a	0.7 (-0.5, 1.9); moderate ^a	-0.1 (-0.6, 0.4); moderate
Cyclosporine (lower dose)	Placebo	0	--	-0.5 (-1.1, 0.2); moderate ^a	-0.5 (-1.1, 0.2); low ^b
Cyclosporine (lower dose)	Tralokinumab	0	--	-0.1 (-0.8, 0.6); moderate ^a	-0.1 (-0.8, 0.6); low ^b
Dupilumab	Methotrexate	0	--	-0.4 (-1.1, 0.3); moderate ^a	-0.4 (-1.1, 0.3); low ^b
Dupilumab	Placebo	7	-0.8 (-0.9, -0.7); high	--	-0.8 (-0.9, -0.7); high
Dupilumab	Tralokinumab	0	--	-0.4 (-0.6, -0.2); high	-0.4 (-0.6, -0.2); high
Methotrexate	Placebo	0	--	-0.4 (-1.1, 0.3); moderate ^a	-0.4 (-1.1, 0.3); low ^b
Methotrexate	Tralokinumab	0	--	0 (-0.7, 0.7); moderate ^a	0 (-0.7, 0.7); moderate
Tralokinumab	Placebo	3	-0.4 (-0.6, -0.3); high	--	-0.4 (-0.6, -0.3); high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

- * Rated down for significant issues related to inconsistency in head-to-head trials
 - a. Rated down for significant issues related to risk of bias in included trials
 - b. Rated down for imprecision

eFigure 3. Network graphs of studies included in the analysis of adults treated between 8 and 16 weeks for change in itch on the standardized mean difference scale. The width of each line connecting two treatments (nodes) is proportional to the number of head-to-head trials for that comparison.



OD: once daily; q1w: once weekly; q2w: every 2 weeks; q4w: every 4 weeks.

eTable 14. League table with relative effect estimates for change in itch up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as change in standardized mean difference of itch scales (95% CrI). A positive effect estimate in a given cell favors the row-defining treatment. A negative effect estimate in a given cell favors the column-defining treatment. The bottom row contains the Surface Under the Cumulative Ranking (SUCRA) value for the column-defining treatment.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Azathioprine	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Cyclosporine (higher dose)	Cyclosporine (lower dose)	Dupilumab*	Methotrexate	Placebo	Tralokinumab*	Upadacitinib 15 mg daily	Upadacitinib 30 mg daily
Abrocitinib 100 mg daily		-0.3 (-0.5, -0.2)	0 (-0.7, 0.6)	0 (-0.2, 0.3)	-0.1 (-0.3, 0.2)	-0.2 (-1, 0.7)	-0.1 (-1.1, 0.8)	-0.3 (-0.5, -0.1)	0 (-0.9, 0.9)	0.5 (0.4, 0.7)	0.1 (-0.1, 0.3)	-0.2 (-0.4, 0)	-0.5 (-0.7, -0.3)
Abrocitinib 200 mg daily	0.3 (0.2, 0.5)		0.3 (-0.4, 0.9)	0.4 (0.1, 0.6)	0.2 (0, 0.5)	0.2 (-0.7, 1)	0.2 (-0.8, 1.1)	0 (-0.1, 0.2)	0.3 (-0.5, 1.2)	0.9 (0.7, 1)	0.4 (0.2, 0.6)	0.1 (-0.1, 0.4)	-0.2 (-0.4, 0.1)
Azathioprine	0 (-0.6, 0.7)	-0.3 (-0.9, 0.4)		0.1 (-0.5, 0.7)	0 (-0.7, 0.6)	-0.1 (-1.1, 1)	-0.1 (-1.2, 1.1)	-0.2 (-0.8, 0.4)	0 (-0.6, 0.7)	0.6 (0, 1.2)	0.1 (-0.5, 0.8)	-0.2 (-0.8, 0.5)	-0.4 (-1.1, 0.2)
Baricitinib 2 mg daily	0 (-0.3, 0.2)	-0.4 (-0.6, -0.1)	-0.1 (-0.7, 0.5)		-0.1 (-0.3, 0.1)	-0.2 (-1.1, 0.7)	-0.2 (-1.1, 0.8)	-0.3 (-0.5, -0.1)	0 (-0.9, 0.8)	0.5 (0.3, 0.7)	0.1 (-0.2, 0.3)	-0.2 (-0.5, 0)	-0.5 (-0.8, -0.3)
Baricitinib 4 mg daily	0.1 (-0.2, 0.3)	-0.2 (-0.5, 0)	0 (-0.6, 0.7)	0.1 (-0.1, 0.3)		-0.1 (-0.9, 0.8)	-0.1 (-1, 0.9)	-0.2 (-0.4, 0)	0.1 (-0.8, 1)	0.6 (0.4, 0.8)	0.2 (-0.1, 0.4)	-0.1 (-0.4, 0.1)	-0.4 (-0.7, -0.2)
Cyclosporine (higher dose)	0.2 (-0.7, 1)	-0.2 (-1, 0.7)	0.1 (-1, 1.1)	0.2 (-0.7, 1.1)	0.1 (-0.8, 0.9)		0 (-0.4, 0.4)	-0.1 (-1, 0.7)	0.2 (-1.1, 1.4)	0.7 (-0.2, 1.5)	0.3 (-0.6, 1.1)	0 (-0.9, 0.8)	-0.3 (-1.2, 0.5)
Cyclosporine (lower dose)	0.1 (-0.8, 1.1)	-0.2 (-1.1, 0.8)	0.1 (-1.1, 1.2)	0.2 (-0.8, 1.1)	0.1 (-0.9, 1)	0 (-0.4, 0.4)		-0.1 (-1.1, 0.8)	0.2 (-1.2, 1.4)	0.7 (-0.3, 1.6)	0.2 (-0.7, 1.2)	-0.1 (-1, 0.9)	-0.3 (-1.3, 0.6)
Dupilumab*	0.3 (0.1, 0.5)	0 (-0.2, 0.1)	0.2 (-0.4, 0.8)	0.3 (0.1, 0.5)	0.2 (0, 0.4)	0.1 (-0.7, 1)	0.1 (-0.8, 1.1)		0.3 (-0.6, 1.2)	0.8 (0.7, 0.9)	0.4 (0.2, 0.6)	0.1 (-0.1, 0.3)	-0.2 (-0.4, 0)
Methotrexate	0 (-0.9, 0.9)	-0.3 (-1.2, 0.5)	0 (-0.7, 0.6)	0 (-0.8, 0.9)	-0.1 (-1, 0.8)	-0.2 (-1.4, 1.1)	-0.2 (-1.4, 1.2)	-0.3 (-1.2, 0.6)		0.5 (-0.3, 1.4)	0.1 (-0.8, 1)	-0.2 (-1.1, 0.7)	-0.5 (-1.4, 0.4)
Placebo	-0.5 (-0.7, -0.4)	-0.9 (-1, -0.7)	-0.6 (-1.2, 0)	-0.5 (-0.7, -0.3)	-0.6 (-0.8, -0.4)	-0.7 (-1.5, 0.2)	-0.7 (-1.6, 0.3)	-0.8 (-0.9, -0.7)	-0.5 (-1.4, 0.3)		-0.4 (-0.6, -0.3)	-0.7 (-0.9, -0.6)	-1 (-1.2, -0.9)
Tralokinumab*	-0.1 (-0.3, 0.1)	-0.4 (-0.6, -0.2)	-0.1 (-0.8, 0.5)	-0.1 (-0.3, 0.2)	-0.2 (-0.4, 0.1)	-0.3 (-1.1, 0.6)	-0.2 (-1.2, 0.7)	-0.4 (-0.6, -0.2)	-0.1 (-1, 0.8)	0.4 (0.3, 0.6)		-0.3 (-0.5, -0.1)	-0.6 (-0.8, -0.4)
Upadacitinib 15 mg daily	0.2 (0, 0.4)	-0.1 (-0.4, 0.1)	0.2 (-0.5, 0.8)	0.2 (0, 0.5)	0.1 (-0.1, 0.4)	0 (-0.8, 0.9)	0.1 (-0.9, 1)	-0.1 (-0.3, 0.1)	0.2 (-0.7, 1.1)	0.7 (0.6, 0.9)	0.3 (0.1, 0.5)		-0.3 (-0.4, -0.1)
Upadacitinib 30 mg daily	0.5 (0.3, 0.7)	0.2 (-0.1, 0.4)	0.4 (-0.2, 1.1)	0.5 (0.3, 0.8)	0.4 (0.2, 0.7)	0.3 (-0.5, 1.2)	0.3 (-0.6, 1.3)	0.2 (0, 0.4)	0.5 (-0.4, 1.4)	1 (0.9, 1.2)	0.6 (0.4, 0.8)	0.3 (0.1, 0.4)	
SUCRA	0.46	0.73	0.50	0.43	0.53	0.58	0.56	0.69	0.47	0.12	0.38	0.62	0.83

*Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

eTable 15. GRADE certainty ratings for change in the standardized mean difference of itch up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented standardized mean difference (95% CrI). Negative effect estimates favor the treatment listed in the intervention column; positive effect estimates favor the comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	0.3 (0.2, 0.5); high	--	0.3 (0.2, 0.5); high
Abrocitinib 100 mg daily	Azathioprine	0	--	0 (-0.6, 0.7); moderate ^a	0 (-0.6, 0.7); moderate ^b
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	0 (-0.3, 0.2); high	0 (-0.3, 0.2); high
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	0.1 (-0.2, 0.3); high	0.1 (-0.2, 0.3); high
Abrocitinib 100 mg daily	Cyclosporine (higher dose)	0	--	0.2 (-0.7, 1); moderate ^a	0.2 (-0.7, 1); low ^b
Abrocitinib 100 mg daily	Cyclosporine (lower dose)	0	--	0.1 (-0.8, 1.1); moderate ^a	0.1 (-0.8, 1.1); low ^b
Abrocitinib 100 mg daily	Dupilumab	1	0.3 (0.1, 0.5); high	0.3 (0, 0.5); high	0.3 (0.1, 0.5); high
Abrocitinib 100 mg daily	Methotrexate	0	--	0 (-0.9, 0.9); moderate ^a	0 (-0.9, 0.9); low ^b
Abrocitinib 100 mg daily	Placebo	4	-0.5 (-0.7, -0.4); high	--	-0.5 (-0.7, -0.4); high
Abrocitinib 100 mg daily	Tralokinumab	0	--	-0.1 (-0.3, 0.1); high	-0.1 (-0.3, 0.1); high
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	0.2 (0, 0.4); high	0.2 (0, 0.4); moderate ^b
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	0.5 (0.3, 0.7); high	0.5 (0.3, 0.7); high
Abrocitinib 200 mg daily	Azathioprine	0	--	-0.3 (-0.9, 0.4); moderate ^a	-0.3 (-0.9, 0.4); low ^b
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	-0.4 (-0.6, -0.1); high	-0.4 (-0.6, -0.1); high
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	-0.2 (-0.5, 0); high	-0.2 (-0.5, 0); moderate ^b
Abrocitinib 200 mg daily	Cyclosporine (higher dose)	0	--	-0.2 (-1, 0.7); moderate ^a	-0.2 (-1, 0.7); low ^b

Abrocitinib 200 mg daily	Cyclosporine (lower dose)	0	--	-0.2 (-1.1, 0.8); moderate ^a	-0.2 (-1.1, 0.8); low ^b
Abrocitinib 200 mg daily	Dupilumab	1	-0.1 (-0.4, 0.1); high	0 (-0.2, 0.3); high	0 (-0.2, 0.1); high
Abrocitinib 200 mg daily	Methotrexate	0	--	-0.3 (-1.2, 0.5); moderate ^a	-0.3 (-1.2, 0.5); low ^b
Abrocitinib 200 mg daily	Placebo	4	-0.9 (-1, -0.7); high	--	-0.9 (-1, -0.7); high
Abrocitinib 200 mg daily	Tralokinumab	0	--	-0.4 (-0.6, -0.2); high	-0.4 (-0.6, -0.2); high
Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	-0.1 (-0.4, 0.1); high	-0.1 (-0.4, 0.1); high
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	0.2 (-0.1, 0.4); high	0.2 (-0.1, 0.4); moderate ^b
Azathioprine	Baricitinib 2 mg daily	0	--	-0.1 (-0.7, 0.5); moderate ^a	-0.1 (-0.7, 0.5); moderate
Azathioprine	Baricitinib 4 mg daily	0	--	0 (-0.6, 0.7); moderate ^a	0 (-0.6, 0.7); moderate
Azathioprine	Cyclosporine (higher dose)	0	--	0.1 (-1, 1.1); moderate ^a	0.1 (-1, 1.1); low ^b
Azathioprine	Cyclosporine (lower dose)	0	--	0.1 (-1.1, 1.2); moderate ^a	0.1 (-1.1, 1.2); low ^b
Azathioprine	Dupilumab	0	--	0.2 (-0.4, 0.8); moderate ^a	0.2 (-0.4, 0.8); low ^b
Azathioprine	Methotrexate	1	0 (-0.7, 0.6); moderate ^a	--	0 (-0.7, 0.6); moderate
Azathioprine	Placebo	1	-0.6 (-1.2, 0); moderate ^a	--	-0.6 (-1.2, 0); low ^b
Azathioprine	Tralokinumab	0	--	-0.1 (-0.8, 0.5); moderate ^a	-0.1 (-0.8, 0.5); low ^b
Azathioprine	Upadacitinib 15 mg daily	0	--	0.2 (-0.5, 0.8); moderate ^a	0.2 (-0.5, 0.8); low ^b
Azathioprine	Upadacitinib 30 mg daily	0	--	0.4 (-0.2, 1.1); moderate ^a	0.4 (-0.2, 1.1); low ^b
Baricitinib 2 mg daily	Baricitinib 4 mg daily	4	0.1 (-0.1, 0.3); high	--	0.1 (-0.1, 0.3); high
Baricitinib 2 mg daily	Cyclosporine (higher dose)	0	--	0.2 (-0.7, 1.1); moderate ^a	0.2 (-0.7, 1.1); low ^b
Baricitinib 2 mg daily	Cyclosporine (lower dose)	0	--	0.2 (-0.8, 1.1); moderate ^a	0.2 (-0.8, 1.1); low ^b
Baricitinib 2 mg daily	Dupilumab	0	--	0.3 (0.1, 0.5); high	0.3 (0.1, 0.5); high

Baricitinib 2 mg daily	Methotrexate	0	--	0 (-0.8, 0.9); moderate ^a	0 (-0.8, 0.9); low ^b
Baricitinib 2 mg daily	Placebo	5	-0.5 (-0.7, -0.3); high	--	-0.5 (-0.7, -0.3); high
Baricitinib 2 mg daily	Tralokinumab	0	--	-0.1 (-0.3, 0.2); high	-0.1 (-0.3, 0.2); high
Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	0.2 (0, 0.5); high	0.2 (0, 0.5); moderate ^b
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	0.5 (0.3, 0.8); high	0.5 (0.3, 0.8); high
Baricitinib 4 mg daily	Cyclosporine (higher dose)	0	--	0.1 (-0.8, 0.9); moderate ^a	0.1 (-0.8, 0.9); low ^b
Baricitinib 4 mg daily	Cyclosporine (lower dose)	0	--	0.1 (-0.9, 1); moderate ^a	0.1 (-0.9, 1); low ^b
Baricitinib 4 mg daily	Dupilumab	0	--	0.2 (0, 0.4); high	0.2 (0, 0.4); moderate ^b
Baricitinib 4 mg daily	Methotrexate	0	--	-0.1 (-1, 0.8); moderate ^a	-0.1 (-1, 0.8); low ^b
Baricitinib 4 mg daily	Placebo	4	-0.6 (-0.8, -0.4); high	--	-0.6 (-0.8, -0.4); high
Baricitinib 4 mg daily	Tralokinumab	0	--	-0.2 (-0.4, 0.1); high	-0.2 (-0.4, 0.1); moderate ^b
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	0.1 (-0.1, 0.4); high	0.1 (-0.1, 0.4); high
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	0.4 (0.2, 0.7); high	0.4 (0.2, 0.7); high
Cyclosporine (higher dose)	Cyclosporine (lower dose)	1	0 (-0.4, 0.4); moderate ^a	--	0 (-0.4, 0.4); moderate
Cyclosporine (higher dose)	Dupilumab	0	--	0.1 (-0.7, 1); moderate ^a	0.1 (-0.7, 1); low ^b
Cyclosporine (higher dose)	Methotrexate	0	--	-0.2 (-1.4, 1.1); moderate ^a	-0.2 (-1.4, 1.1); low ^b
Cyclosporine (higher dose)	Placebo	1	-0.7 (-1.5, 0.2); moderate ^a	--	-0.7 (-1.5, 0.2); low ^b
Cyclosporine (higher dose)	Tralokinumab	0	--	-0.3 (-1.1, 0.6); moderate ^a	-0.3 (-1.1, 0.6); low ^b
Cyclosporine (higher dose)	Upadacitinib 15 mg daily	0	--	0 (-0.8, 0.9); moderate ^a	0 (-0.8, 0.9); low ^b
Cyclosporine (higher dose)	Upadacitinib 30 mg daily	0	--	0.3 (-0.5, 1.2); moderate ^a	0.3 (-0.5, 1.2); low ^b
Cyclosporine (lower dose)	Dupilumab	0	--	0.1 (-0.8, 1.1); moderate ^a	0.1 (-0.8, 1.1); low ^b

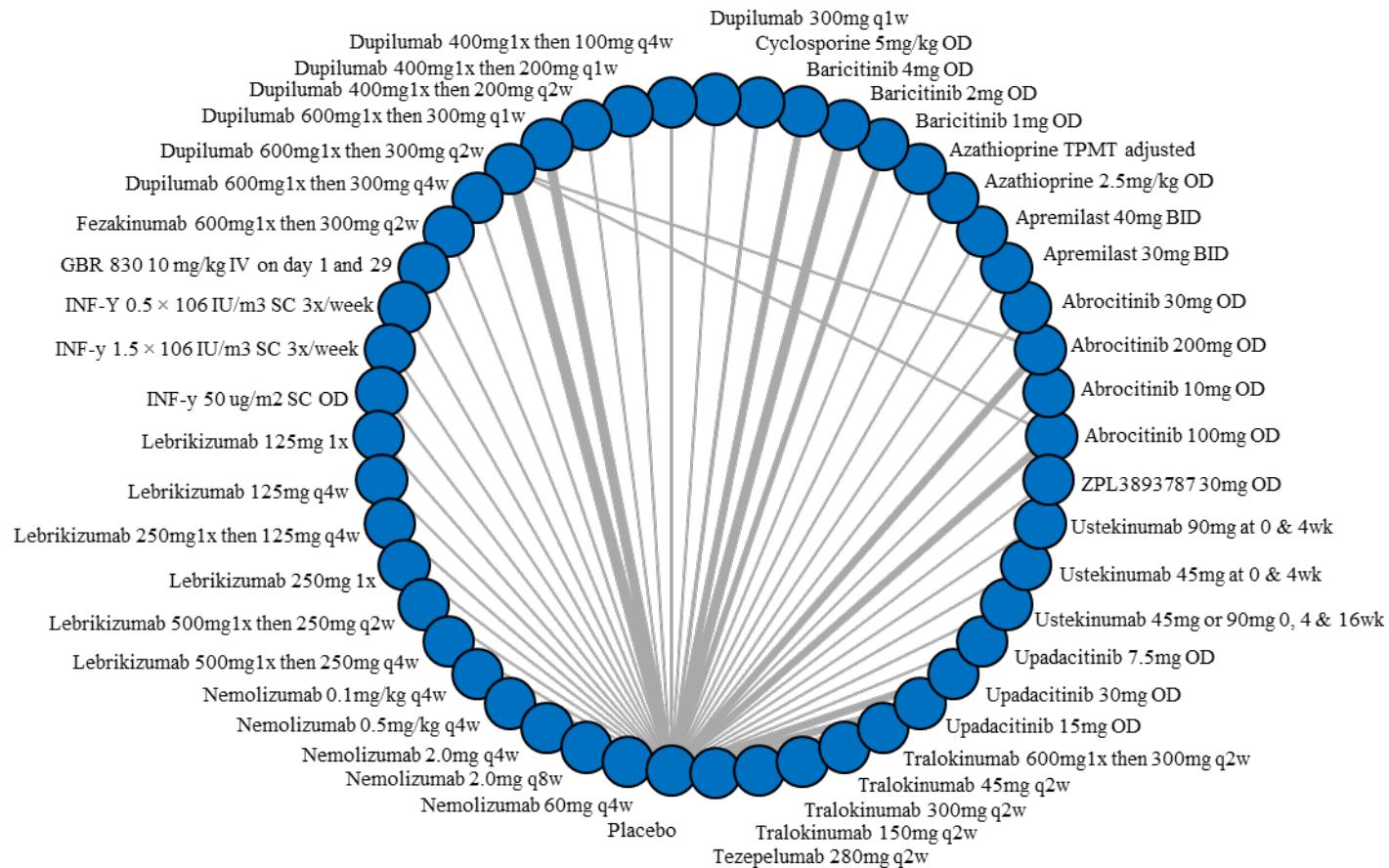
Cyclosporine (lower dose)	Methotrexate	0	-	-0.2 (-1.4, 1.2); moderate ^a	-0.2 (-1.4, 1.2); low ^b
Cyclosporine (lower dose)	Placebo	0	--	-0.7 (-1.6, 0.3); moderate ^a	-0.7 (-1.6, 0.3); low ^b
Cyclosporine (lower dose)	Tralokinumab	0	--	-0.2 (-1.2, 0.7); moderate ^a	-0.2 (-1.2, 0.7); low ^b
Cyclosporine (lower dose)	Upadacitinib 15 mg daily	0	--	0.1 (-0.9, 1); moderate ^a	0.1 (-0.9, 1); low ^b
Cyclosporine (lower dose)	Upadacitinib 30 mg daily	0	--	0.3 (-0.6, 1.3); moderate ^a	0.3 (-0.6, 1.3); low ^b
Dupilumab	Methotrexate	0	--	-0.3 (-1.2, 0.6); moderate ^a	-0.3 (-1.2, 0.6); low ^b
Dupilumab	Placebo	7	-0.8 (-0.9, -0.7); high	--	-0.8 (-0.9, -0.7); high
Dupilumab	Tralokinumab	0	--	-0.4 (-0.6, -0.2); high	-0.4 (-0.6, -0.2); high
Dupilumab	Upadacitinib 15 mg daily	0	--	-0.1 (-0.3, 0.1); high	-0.1 (-0.3, 0.1); high
Dupilumab	Upadacitinib 30 mg daily	0	--	0.2 (0, 0.4); high	0.2 (0, 0.4); moderate ^b
Methotrexate	Placebo	0	--	-0.5 (-1.4, 0.3); moderate ^a	-0.5 (-1.4, 0.3); low ^b
Methotrexate	Tralokinumab	0	--	-0.1 (-1, 0.8); moderate ^a	-0.1 (-1, 0.8); low ^b
Methotrexate	Upadacitinib 15 mg daily	0	--	0.2 (-0.7, 1.1); moderate ^a	0.2 (-0.7, 1.1); low ^b
Methotrexate	Upadacitinib 30 mg daily	0	--	0.5 (-0.4, 1.4); moderate ^a	0.5 (-0.4, 1.4); low ^b
Tralokinumab	Placebo	3		--	-0.4 (-0.6, -0.3); high
Tralokinumab	Upadacitinib 15 mg daily	0	--	0.3 (0.1, 0.5); high	0.3 (0.1, 0.5); high
Tralokinumab	Upadacitinib 30 mg daily	0	--	0.6 (0.4, 0.8); high	0.6 (0.4, 0.8); high
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	4	0.3 (0.1, 0.4); high	--	0.3 (0.1, 0.4); high
Upadacitinib 15 mg daily	Placebo	4	0.7 (0.6, 0.9); high	--	0.7 (0.6, 0.9); high
Upadacitinib 30 mg daily	Placebo	4	1 (0.9, 1.2); high	--	1 (0.9, 1.2) high

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

- a. Rated down for significant issues related to risk of bias in included trials
- b. Rated down for imprecision

eFigure 4. Network graphs of studies included in the analysis of adults treated between 8 and 16 weeks for withdrawal due to adverse events. The width of each line connecting two treatments (nodes) is proportional to the number of head-to-head trials for that comparison.



OD: once daily; q1w: once weekly; q2w: every 2 weeks; q4w: every 4 weeks.

eTable 16. League table with relative effect estimates for withdrawals from adverse events up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as Odds Ratios (95% CrI). Odds ratios are given as the odds with the column-defining treatment over the odds with the row-defining treatment. Odds ratios over 1 indicate more withdrawals due to serious adverse event with the intervention vs. comparator.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Dupilumab 600 mg then 300 mg q2 weeks	Placebo	Tralokinumab 600 mg then 300 mg q2 weeks	Upadacitinib 15 mg daily	Upadacitinib 30 mg daily
Abrocitinib 100 mg daily		1 (0.5, 1.7)	1.1 (0.4, 3)	2.1 (0.8, 5.5)	1.3 (0.6, 2.8)	1.3 (0.8, 2.4)	1.2 (0.5, 2.9)	0.8 (0.3, 1.8)	1 (0.4, 2.2)
Abrocitinib 200 mg daily	1.1 (0.6, 1.8)		1.2 (0.4, 3.1)	2.2 (0.8, 5.9)	1.3 (0.6, 2.9)	1.4 (0.8, 2.5)	1.3 (0.5, 3.1)	0.8 (0.3, 1.9)	1 (0.5, 2.3)
Baricitinib 2 mg daily	0.9 (0.3, 2.5)	0.9 (0.3, 2.4)		1.9 (0.8, 4.8)	1.2 (0.4, 3.4)	1.2 (0.5, 2.9)	1.1 (0.4, 3.2)	0.7 (0.3, 2)	0.9 (0.3, 2.5)
Baricitinib 4 mg daily	0.5 (0.2, 1.3)	0.5 (0.2, 1.3)	0.5 (0.2, 1.3)		0.6 (0.2, 1.7)	0.7 (0.3, 1.5)	0.6 (0.2, 1.6)	0.4 (0.1, 1)	0.5 (0.2, 1.3)
Dupilumab 600 mg then 300 mg q2 weeks	0.8 (0.4, 1.7)	0.7 (0.3, 1.6)	0.9 (0.3, 2.4)	1.6 (0.6, 4.5)		1 (0.6, 2)	0.9 (0.4, 2.4)	0.6 (0.3, 1.4)	0.8 (0.3, 1.8)
Placebo	0.7 (0.4, 1.3)	0.7 (0.4, 1.3)	0.8 (0.3, 1.9)	1.5 (0.7, 3.4)	1 (0.5, 1.8)		0.9 (0.5, 1.8)	0.6 (0.3, 1)	0.7 (0.4, 1.3)
Tralokinumab 600 mg then 300 mg q2 weeks	0.8 (0.3, 2)	0.8 (0.3, 1.9)	0.9 (0.3, 2.6)	1.7 (0.6, 4.7)	1.1 (0.4, 2.6)	1.1 (0.6, 2.1)		0.6 (0.3, 1.5)	0.8 (0.3, 1.9)
Upadacitinib 15 mg daily	1.3 (0.6, 3)	1.2 (0.5, 2.9)	1.4 (0.5, 3.9)	2.7 (1, 7.4)	1.7 (0.7, 4)	1.7 (1, 3.2)	1.6 (0.7, 3.9)		1.3 (0.7, 2.4)
Upadacitinib 30 mg daily	1 (0.5, 2.3)	1 (0.4, 2.2)	1.1 (0.4, 3.1)	2.1 (0.8, 5.7)	1.3 (0.6, 3.1)	1.4 (0.8, 2.5)	1.2 (0.5, 3)	0.8 (0.4, 1.5)	
SUCRA	0.69	0.71	0.66	0.45	0.60	0.58	0.62	0.77	0.70

eTable 17. GRADE certainty ratings for withdrawals from adverse events up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented as Odds Ratios (95% CrI). Odds ratios are given as the odds with the treatment in the intervention column over the odds of the treatment in the comparator column. Odds ratios over 1 indicate more withdrawals due to serious adverse event with the intervention vs. comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	1.1 (0.6, 1.8); moderate*	--	1.1 (0.6, 1.8); low ^a
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	0.9 (0.3, 2.5); moderate*	0.9 (0.3, 2.5); very low ^b
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	0.5 (0.2, 1.3); moderate*	0.5 (0.2, 1.3); very low ^b
Abrocitinib 100 mg daily	Dupilumab	1	0.8 (0.2, 3.6); high	0.6 (0.2, 1.8); moderate*	0.8 (0.4, 1.7); low ^a
Abrocitinib 100 mg daily	Placebo	4	0.7 (0.4, 1.3); moderate*	--	0.7 (0.4, 1.3); low ^a
Abrocitinib 100 mg daily	Tralokinumab	0	--	0.8 (0.3, 2); moderate*	0.8 (0.3, 2); very low ^b
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	1.3 (0.6, 3); moderate*	1.3 (0.6, 3); very low ^b
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	1 (0.5, 2.3); moderate*	1 (0.5, 2.3); very low ^b
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	0.9 (0.3, 2.4); moderate*	0.9 (0.3, 2.4); very low ^b
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	0.5 (0.2, 1.3); moderate*	0.5 (0.2, 1.3); very low ^b
Abrocitinib 200 mg daily	Dupilumab	1	1.5 (0.4, 5.9); high	0.4 (0.1, 1.4); moderate*	0.8 (0.3, 1.6); very low ^b
Abrocitinib 200 mg daily	Placebo	4	0.7 (0.4, 1.3); moderate*	--	0.7 (0.4, 1.3); low ^a
Abrocitinib 200 mg daily	Tralokinumab	0	--	0.8 (0.3, 1.9); moderate*	0.8 (0.3, 1.9); very low ^b

Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	1.2 (0.5, 2.9); moderate*	1.2 (0.5, 2.9); very low ^b
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	1 (0.4, 2.2); moderate*	1 (0.4, 2.2); very low ^b
Baricitinib 2 mg daily	Baricitinib 4 mg daily	4	0.5 (0.2, 1.3); moderate*	--	0.5 (0.2, 1.3); low ^a
Baricitinib 2 mg daily	Dupilumab	0	--	0.9 (0.3, 2.4); moderate*	0.9 (0.3, 2.4); very low ^b
Baricitinib 2 mg daily	Placebo	5	0.8 (0.3, 1.9); moderate*	--	0.8 (0.3, 1.9); very low ^b
Baricitinib 2 mg daily	Tralokinumab	0	--	0.9 (0.3, 2.6); moderate*	0.9 (0.3, 2.6); very low ^b
Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	1.4 (0.5, 3.9); moderate*	1.4 (0.5, 3.9); very low ^b
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	1.1 (0.4, 3.1); moderate*	1.1 (0.4, 3.1); very low ^b
Baricitinib 4 mg daily	Dupilumab	0	--	1.6 (0.6, 4.5); moderate*	1.6 (0.6, 4.5); very low ^b
Baricitinib 4 mg daily	Placebo	4	1.5 (0.7, 3.4); moderate*	--	1.5 (0.7, 3.4); very low ^b
Baricitinib 4 mg daily	Tralokinumab	0	--	1.7 (0.6, 4.7); moderate*	1.7 (0.6, 4.7); very low ^b
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	2.7 (1, 7.4); moderate*	2.7 (1, 7.4); very low ^b
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	2.1 (0.8, 5.7); moderate*	2.1 (0.8, 5.7); very low ^b
Dupilumab	Placebo	6	1 (0.5, 1.8); moderate*	--	1 (0.5, 1.8); low ^a
Dupilumab	Tralokinumab	0	--	1.1 (0.4, 2.6); moderate*	1.1 (0.4, 2.6); very low ^b
Dupilumab	Upadacitinib 15 mg daily	0	--	1.7 (0.7, 4); moderate*	1.7 (0.7, 4); very low ^b
Dupilumab	Upadacitinib 30 mg daily	0	--	1.3 (0.6, 3.1); moderate*	1.3 (0.6, 3.1); very low ^b
Tralokinumab	Upadacitinib 15 mg daily	0	--	1.6 (0.7, 3.9); moderate*	1.6 (0.7, 3.9); very low ^b

Tralokinumab	Upadacitinib 30 mg daily	0	--	1.2 (0.5, 3); moderate*	1.2 (0.5, 3); very low ^b
Tralokinumab	Placebo	4	0.9 (0.5, 1.8); moderate*	--	0.9 (0.5, 1.8); low ^a
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	4	0.8 (0.4, 1.5); moderate*	--	0.8 (0.4, 1.5); low ^a
Upadacitinib 15 mg daily	Placebo	4	0.6 (0.3, 1); high	--	0.6 (0.3, 1); moderate ^a
Upadacitinib 30 mg daily	Placebo	4	0.7 (0.4, 1.3); moderate*	--	0.7 (0.4, 1.3); low ^a

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

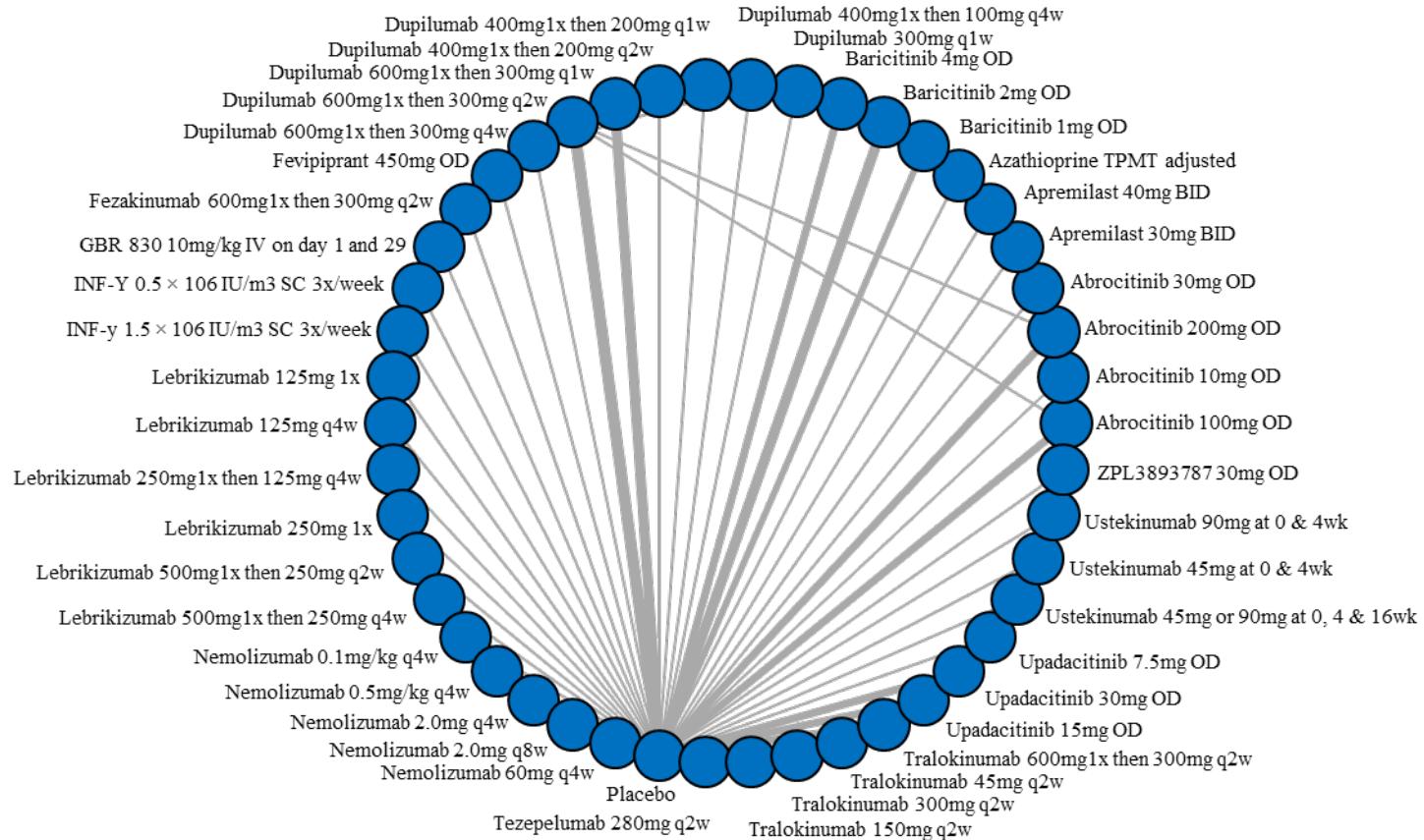
The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

* Rated down for inconsistency

a. Rated down for imprecision (estimate imprecise and would suggest different conclusions at either end of the 95% Credible Intervals)

b. Rated down 2 levels for imprecision (estimate imprecise and would suggest different conclusions at either end of the 95% Credible Intervals and very wide credible intervals)

eFigure 5. Network graphs of studies included in the analysis of adults treated between 8 and 16 weeks for serious adverse events. The width of each line connecting two treatments (nodes) is proportional to the number of head-to-head trials for that comparison.



OD: once daily; q1w: once weekly; q2w: every 2 weeks; q4w: every 4 weeks.

eTable 18. League table with relative effect estimates for serious adverse events up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results for other pairwise comparisons in the network can be requested from the authors. Results are presented as Odds Ratios (95% CrI). Odds ratios are given as the odds with the column-defining treatment over the odds with the row-defining treatment. Odds ratios over 1 indicate more adverse serious adverse event with the intervention vs. comparator.

	Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	Baricitinib 2 mg daily	Baricitinib 4 mg daily	Dupilumab 600 mg then 300 mg q2 weeks	Placebo	Tralokinumab 600 mg then 300 mg q2 weeks	Upadacitinib 15 mg daily	Upadacitinib 30 mg daily
Abrocitinib 100 mg daily		0.5 (0.2, 1.1)	0.4 (0.1, 1.1)	0.6 (0.2, 1.7)	0.4 (0.2, 0.9)	0.8 (0.4, 1.7)	0.6 (0.2, 1.5)	0.6 (0.2, 1.5)	0.6 (0.2, 1.5)
Abrocitinib 200 mg daily	1.9 (0.9, 4.2)		0.7 (0.2, 2.2)	1.1 (0.3, 3.4)	0.7 (0.3, 1.9)	1.5 (0.7, 3.7)	1.1 (0.4, 3.1)	1.1 (0.4, 3)	1 (0.4, 3)
Baricitinib 2 mg daily	2.7 (0.9, 8.3)	1.4 (0.5, 4.6)		1.6 (0.6, 4)	1 (0.4, 2.8)	2.2 (1, 5)	1.5 (0.6, 4.3)	1.5 (0.6, 4.2)	1.5 (0.5, 4.1)
Baricitinib 4 mg daily	1.7 (0.6, 5.1)	0.9 (0.3, 2.9)	0.6 (0.3, 1.6)		0.7 (0.3, 1.7)	1.4 (0.7, 3.1)	1 (0.4, 2.6)	1 (0.4, 2.6)	0.9 (0.4, 2.5)
Dupilumab 600 mg then 300 mg q2 weeks	2.6 (1.1, 6.4)	1.4 (0.5, 3.6)	1 (0.4, 2.5)	1.5 (0.6, 3.9)		2.1 (1.2, 3.9)	1.5 (0.6, 3.5)	1.4 (0.6, 3.4)	1.4 (0.6, 3.4)
Placebo	1.2 (0.6, 2.6)	0.6 (0.3, 1.5)	0.5 (0.2, 1)	0.7 (0.3, 1.4)	0.5 (0.3, 0.8)		0.7 (0.4, 1.3)	0.7 (0.4, 1.3)	0.7 (0.3, 1.2)
Tralokinumab 600 mg then 300 mg q2 weeks	1.7 (0.7, 4.7)	0.9 (0.3, 2.7)	0.7 (0.2, 1.7)	1 (0.4, 2.6)	0.7 (0.3, 1.6)	1.4 (0.8, 2.7)		1 (0.4, 2.3)	1 (0.4, 2.3)
Upadacitinib 15 mg daily	1.8 (0.7, 4.8)	0.9 (0.3, 2.7)	0.7 (0.2, 1.8)	1 (0.4, 2.7)	0.7 (0.3, 1.6)	1.5 (0.8, 2.8)	1 (0.4, 2.5)		1 (0.5, 2)
Upadacitinib 30 mg daily	1.8 (0.7, 5)	1 (0.3, 2.8)	0.7 (0.2, 1.8)	1.1 (0.4, 2.8)	0.7 (0.3, 1.7)	1.5 (0.8, 2.9)	1 (0.4, 2.6)	1 (0.5, 2)	
SUCRA	0.37	0.56	0.67	0.54	0.66	0.42	0.54	0.55	0.56

eTable 19. GRADE certainty ratings for serious adverse events up to 16 weeks of treatment in adults for placebo and medications used in clinical practice or likely to be approved soon. Results are presented as Odds Ratios (95% CrI). Odds ratios are given as the odds with the treatment in the intervention column over the odds of the treatment in the comparator column. Odds ratios over 1 indicate more adverse serious adverse event with the intervention vs. comparator.

Intervention	Comparator	Head-to-head trials, n	Direct estimate (95% CrI); Certainty of Evidence	Indirect estimate (95% CrI); Certainty of Evidence	NMA Estimate (95% CrI); Certainty of Evidence
Abrocitinib 100 mg daily	Abrocitinib 200 mg daily	4	1.9 (0.9, 4.2); moderate*	--	1.9 (0.9, 4.2); very low ^c
Abrocitinib 100 mg daily	Baricitinib 2 mg daily	0	--	2.7 (0.9, 8.3); moderate*	2.7 (0.9, 8.3); very low ^c
Abrocitinib 100 mg daily	Baricitinib 4 mg daily	0	--	1.7 (0.6, 5.1); moderate*	1.7 (0.6, 5.1); very low ^c
Abrocitinib 100 mg daily	Dupilumab	1	3.4 (0.6, 27.8); high	2.2 (0.7, 7.7); moderate*	2.6 (1.1, 6.4); low ^b
Abrocitinib 100 mg daily	Placebo	4	1.2 (0.6, 2.6); moderate*	--	1.2 (0.6, 2.6); very low ^c
Abrocitinib 100 mg daily	Tralokinumab	0	--	1.7 (0.7, 4.7); moderate*	1.7 (0.7, 4.7); very low ^c
Abrocitinib 100 mg daily	Upadacitinib 15 mg daily	0	--	1.8 (0.7, 4.8); moderate*	1.8 (0.7, 4.8); very low ^c
Abrocitinib 100 mg daily	Upadacitinib 30 mg daily	0	--	1.8 (0.7, 5); moderate*	1.8 (0.7, 5); very low ^c
Abrocitinib 200 mg daily	Baricitinib 2 mg daily	0	--	1.4 (0.5, 4.6); moderate*	1.4 (0.5, 4.6); very low ^c
Abrocitinib 200 mg daily	Baricitinib 4 mg daily	0	--	0.9 (0.3, 2.9); moderate*	0.9 (0.3, 2.9); very low ^c
Abrocitinib 200 mg daily	Dupilumab	1	1.1 (0.1, 12.2); high	1.6 (0.5, 5.6); moderate*	1.4 (0.5, 3.6); very low ^c
Abrocitinib 200 mg daily	Placebo	4	0.6 (0.3, 1.5); moderate*	--	0.6 (0.3, 1.5); very low ^c
Abrocitinib 200 mg daily	Tralokinumab	0	--	0.9 (0.3, 2.7); moderate*	0.9 (0.3, 2.7); very low ^c

Abrocitinib 200 mg daily	Upadacitinib 15 mg daily	0	--	0.9 (0.3, 2.7); moderate*	0.9 (0.3, 2.7); very low ^c
Abrocitinib 200 mg daily	Upadacitinib 30 mg daily	0	--	1 (0.3, 2.8); moderate*	1 (0.3, 2.8); very low ^c
Baricitinib 2 mg daily	Baricitinib 4 mg daily	4	0.6 (0.3, 1.6); moderate*	--	0.6 (0.3, 1.6); low ^a
Baricitinib 2 mg daily	Dupilumab	0	--	1 (0.4, 2.5); moderate*	1 (0.4, 2.5); very low ^c
Baricitinib 2 mg daily	Placebo	5	0.5 (0.2, 1); high	--	0.5 (0.2, 1); low ^a
Baricitinib 2 mg daily	Tralokinumab	0	--	0.7 (0.2, 1.7); moderate*	0.7 (0.2, 1.7); very low ^c
Baricitinib 2 mg daily	Upadacitinib 15 mg daily	0	--	0.7 (0.2, 1.8); high	0.7 (0.2, 1.8); low ^c
Baricitinib 2 mg daily	Upadacitinib 30 mg daily	0	--	0.7 (0.2, 1.8); high	0.7 (0.2, 1.8); low ^c
Baricitinib 4 mg daily	Dupilumab	0	--	1.5 (0.6, 3.9); moderate*	1.5 (0.6, 3.9); very low ^c
Baricitinib 4 mg daily	Placebo	4	0.7 (0.3, 1.4); moderate*	--	0.7 (0.3, 1.4); low ^a
Baricitinib 4 mg daily	Tralokinumab	0	--	1 (0.4, 2.6); moderate*	1 (0.4, 2.6); very low ^c
Baricitinib 4 mg daily	Upadacitinib 15 mg daily	0	--	1 (0.4, 2.7); moderate*	1 (0.4, 2.7); very low ^c
Baricitinib 4 mg daily	Upadacitinib 30 mg daily	0	--	1.1 (0.4, 2.8); moderate*	1.1 (0.4, 2.8); very low ^c
Dupilumab	Placebo	6	0.5 (0.3, 0.8); moderate*	--	0.5 (0.3, 0.8); moderate
Dupilumab	Tralokinumab	0	--	0.7 (0.3, 1.6); moderate*	0.7 (0.3, 1.6); very low ^c
Dupilumab	Upadacitinib 15 mg daily	0	--	0.7 (0.3, 1.6); moderate*	0.7 (0.3, 1.6); very low ^c
Dupilumab	Upadacitinib 30 mg daily	0	--	0.7 (0.3, 1.7); moderate*	0.7 (0.3, 1.7); very low ^c
Tralokinumab	Upadacitinib 15 mg daily	0	--	1 (0.4, 2.5); moderate*	1 (0.4, 2.5); very low ^c
Tralokinumab	Upadacitinib 30 mg daily	0	--	1 (0.4, 2.6); moderate*	1 (0.4, 2.6); very low ^c

Tralokinumab	Placebo	4	0.7 (0.4, 1.3); moderate*	--	0.7 (0.4, 1.3); low ^a
Upadacitinib 15 mg daily	Upadacitinib 30 mg daily	4	1 (0.5, 2); moderate*	--	1 (0.5, 2); very low ^c
Upadacitinib 15 mg daily	Placebo	4	0.7 (0.4, 1.3); high	--	0.7 (0.4, 1.3); moderate ^a
Upadacitinib 30 mg daily	Placebo	4	0.7 (0.3, 1.2); high	--	0.7 (0.3, 1.2); moderate ^a

Dose of dupilumab and tralokinumab is 600 mg then 300 mg every 2 weeks

The network meta-analysis certainty ratings start at the higher of the direct or indirect ratings and can then be rated down further for incoherence (based on the results of node splitting analyses) and imprecision.

* Rated down for inconsistency

a. Rated down for imprecision (estimate imprecise and would suggest different conclusions at either end of the 95% Credible Intervals)

b. Rated down for imprecision (very wide credible intervals)

c. Rated down 2 levels for imprecision (estimate imprecise and would suggest different conclusions at either end of the 95% Credible Intervals and very wide credible intervals)

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