

1 Janus Kinase Inhibitors

2 e-Table 11. Upadacitinib Monotherapy (15 mg) GRADE Summary of Findings (Short-term)

Upadacitinib 15mg daily monotherapy compared to Placebo short-term

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term**Intervention:** Upadacitinib 15mg daily monotherapy**Comparison:** Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Upadacitinib 15mg daily monotherapy				
IGA (0,1) follow-up: 16 weeks CRITICAL	63 per 1,000	415 per 1,000 (301 to 571)	RR 6.55 (4.75 to 9.02)	1199 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
EASI75 follow-up: 16 weeks CRITICAL	145 per 1,000	639 per 1,000 (522 to 783)	RR 4.41 (3.60 to 5.40)	1199 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
Pruritus improvement assessed with: ≥ 4-point improvement in patients with baseline NRS score of 4+ follow-up: 16 weeks	102 per 1,000	470 per 1,000 (365 to 608)	RR 4.63 (3.59 to 5.99)	1157 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
Discontinuation due to AEs follow-up: 16 weeks CRITICAL	45 per 1,000	29 per 1,000 (15 to 55)	RR 0.64 (0.34 to 1.22)	1198 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
POEM assessed with: 4-point or more improvement in POEM total score, assessed in patients with a POEM total score of ≥4 at baseline follow-up: 16 weeks CRITICAL	257 per 1,000	731 per 1,000 (551 to 970)	RR 2.84 (2.14 to 3.77)	1090 (2 RCTs) ¹	⊕⊕⊕⊕ High	

Serious Adverse Events follow-up: 16 weeks CRITICAL	28 per 1,000	20 per 1,000 (10 to 42)	RR 0.71 (0.34 to 1.47)	1198 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Flares assessed with: patients who initiated rescue medication follow-up: 16 weeks CRITICAL	453 per 1,000	104 per 1,000 (77 to 131)	RR 0.23 (0.17 to 0.29)	1116 (2 RCTs) ¹	⊕⊕⊕⊕ High
Quality of life assessed with: 4-point or more improvement in DLQI, assessed in patients aged ≥16 years with a DLQI score of ≥4 at baseline follow-up: 16 weeks CRITICAL	288 per 1,000	737 per 1,000 (636 to 852)	RR 2.56 (2.21 to 2.96)	1005 (2 RCTs) ¹	⊕⊕⊕⊕ High
EASI100 follow-up: 16 weeks INFORMATIVE	12 per 1,000	134 per 1,000 (64 to 279)	RR 11.45 (5.47 to 23.94)	1199 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
EASI90 follow-up: 16 weeks INFORMATIVE	65 per 1,000	459 per 1,000 (335 to 628)	RR 7.06 (5.15 to 9.66)	1199 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Treatment-emergent AEs follow-up: 16 weeks INFORMATIVE	558 per 1,000	614 per 1,000 (553 to 675)	RR 1.10 (0.99 to 1.21)	1116 (2 RCTs) ¹	⊕⊕⊕○ Moderate ^a
Serious Infections follow-up: 16 weeks INFORMATIVE	4 per 1,000	5 per 1,000 (1 to 44)	RR 1.31 (0.14 to 12.24)	1116 (2 RCTs) ¹	⊕⊕⊕⊕ High ^b
Upper Respiratory Tract Infection follow-up: 16 weeks INFORMATIVE	60 per 1,000	81 per 1,000 (53 to 123)	RR 1.35 (0.89 to 2.05)	1198 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Any infection follow-up: 16 weeks INFORMATIVE	200 per 1,000	428 per 1,000 (210 to 872)	RR 2.14 (1.05 to 4.36)	82 (1 RCT) ²	⊕⊕⊕○ Moderate ^c

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI:** confidence interval; **RR:** risk ratio

3 **Explanations:**

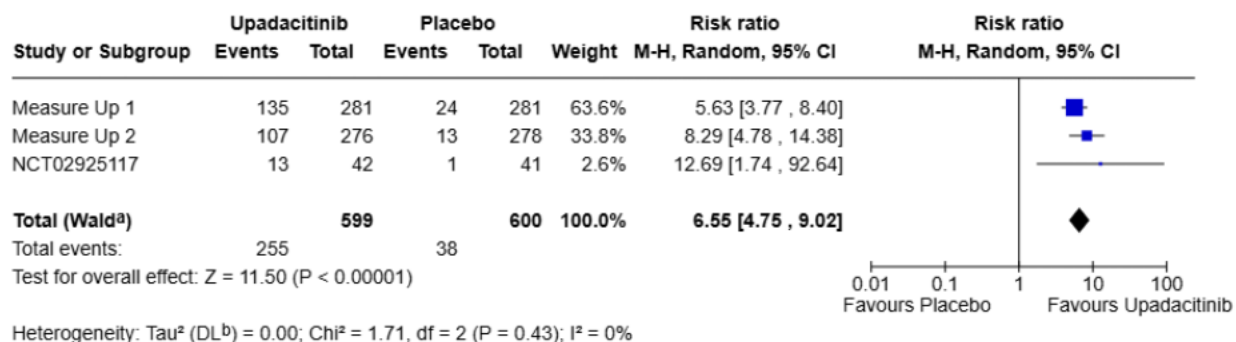
4 a. Wide CI consistent with no difference and meaningful harm (based on MID 10%).

5 b. Low equitable event rates in a robust sample.

6 c. Very small sample leading to wide CI.

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8 *Analysis. IGA (0,1)*



Footnotes

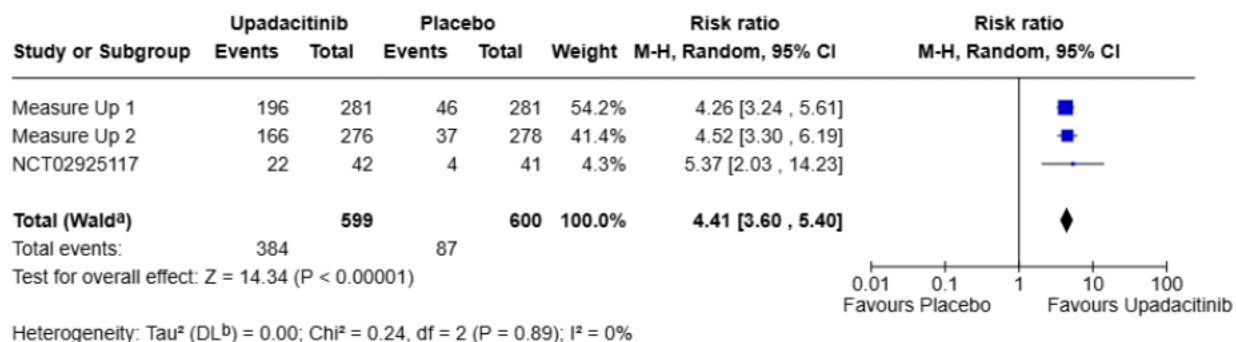
^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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11 *Analysis. EASI75*



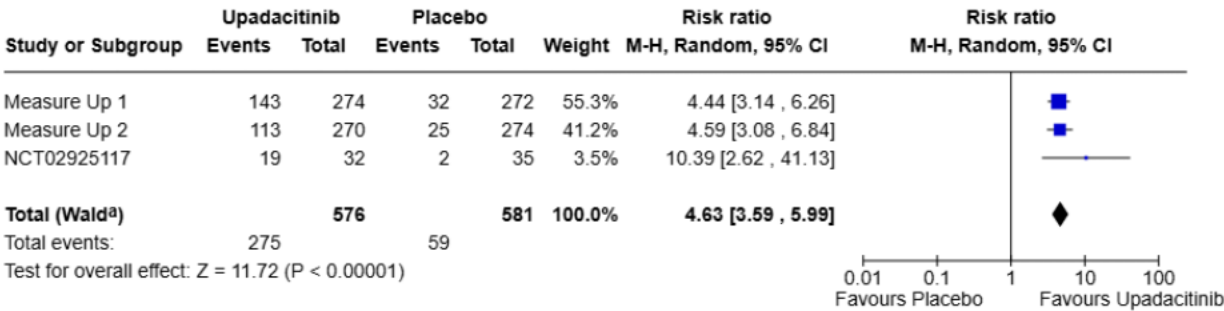
Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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13 *Analysis. Pruritus improvement*



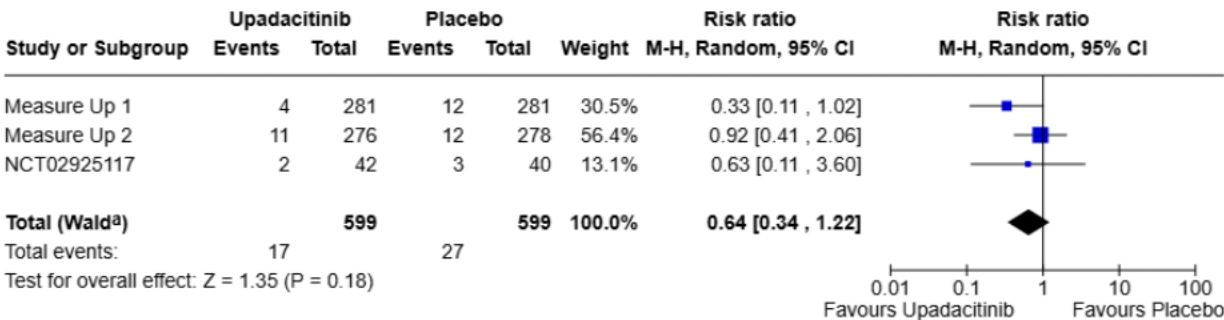
Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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15 *Analysis. Discontinuations*



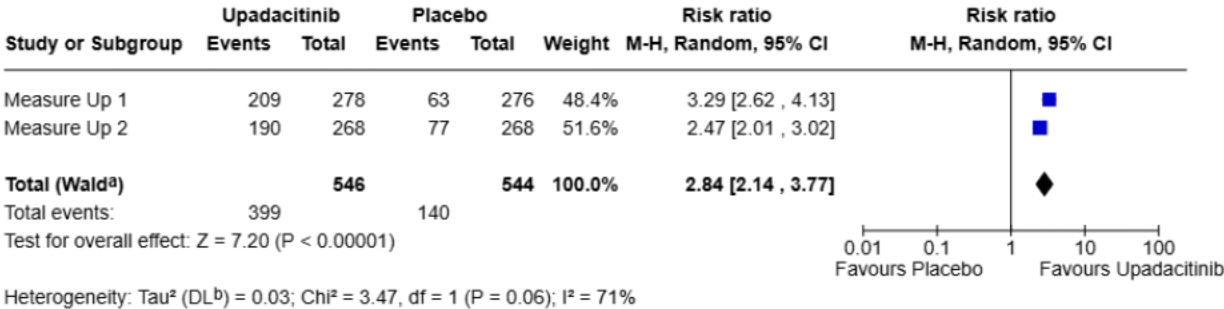
Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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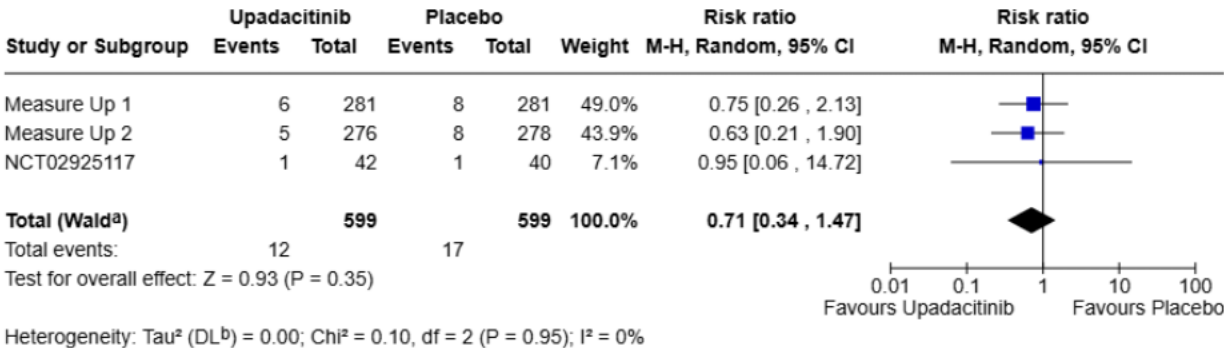
17 *Analysis. POEM*



Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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19 *Analysis. Serious adverse events*

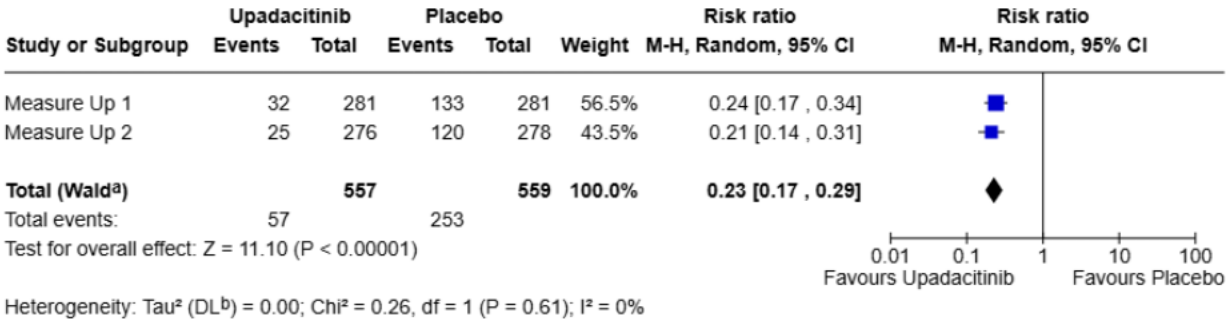


Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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22 *Analysis. Flare prevention*



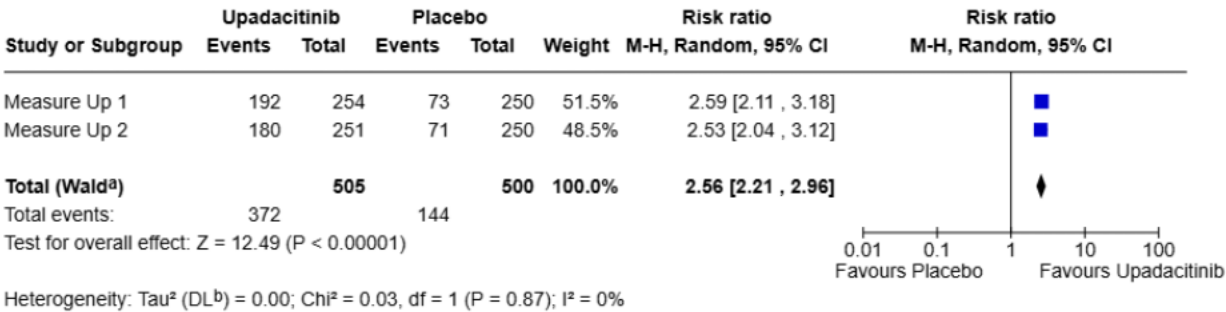
Footnotes

^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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25 *Analysis. Quality of life*



Footnotes

^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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30 1. Guttman-Yassky E, Teixeira HD, Simpson EL, Papp KA, Pangan AL, Blauvelt A et al. Once-daily upadacitinib versus placebo
31 in adolescents and adults with moderate-to-severe atopic dermatitis (Measure Up 1 and Measure Up 2): results from two
32 replicate double-blind, randomised controlled phase 3 trials. Lancet 2021;397:2151-68.
33 2. Guttman-Yassky E, Thaçi D, Pangan AL, Hong HC, Papp KA, Reich K et al. Upadacitinib in adults with moderate to severe
34 atopic dermatitis: 16-week results from a randomized, placebo-controlled trial. J Allergy Clin Immunol 2020;145:877-84.
35

36 e-Table 12. Upadacitinib Monotherapy (30 mg) GRADE Summary of Findings (Short-term)

Upadacitinib 30mg daily monotherapy compared to Placebo short-term

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term

Intervention: Upadacitinib 30mg daily monotherapy

Comparison: Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Upadacitinib 30mg daily monotherapy				
IGA (0,1) follow-up: 16 weeks CRITICAL	63 per 1,000	560 per 1,000 (386 to 813)	RR 8.84 (6.09 to 12.84)	1209 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
EASI75 follow-up: 16 weeks CRITICAL	145 per 1,000	754 per 1,000 (618 to 919)	RR 5.20 (4.26 to 6.34)	1209 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
Pruritus improvement assessed with: ≥ 4-point improvement in patients with baseline NRS score of 4+ follow-up: 16 weeks CRITICAL	102 per 1,000	690 per 1,000 (538 to 883)	RR 6.79 (5.30 to 8.70)	1105 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
Discontinuation due to AEs follow-up: 16 weeks CRITICAL	45 per 1,000	37 per 1,000 (21 to 64)	RR 0.81 (0.46 to 1.41)	1208 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
POEM assessed with: ≥ 4-point improvement in patients with a POEM total score of ≥4 at	257 per 1,000	824 per 1,000 (674 to 1,000)	RR 3.20 (2.62 to 3.90)	1093 (2 RCTs) ¹	⊕⊕⊕⊕ High	

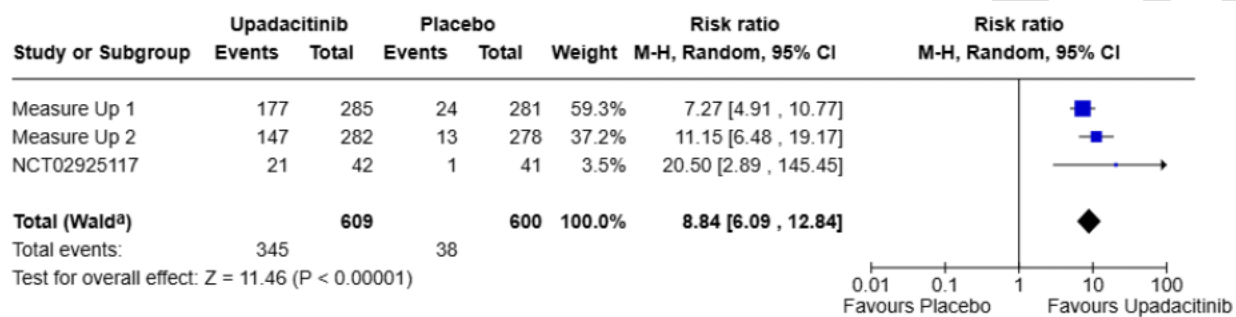
baseline follow-up: 16 weeks CRITICAL					
Serious Adverse Events follow-up: 16 weeks CRITICAL	28 per 1,000	25 per 1,000 (13 to 49)	RR 0.88 (0.45 to 1.74)	1208 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High ^a
Flares assessed with: patients who initiated rescue medication follow-up: 16 weeks CRITICAL	453 per 1,000	63 per 1,000 (45 to 86)	RR 0.14 (0.10 to 0.19)	1126 (2 RCTs) ¹	⊕⊕⊕⊕ High
Quality of life assessed with: ≥ 4-point improvement in patients aged ≥16 years with a DLQI score of ≥4 at baseline follow-up: 16 weeks CRITICAL	288 per 1,000	801 per 1,000 (694 to 924)	RR 2.78 (2.41 to 3.21)	1007 (2 RCTs) ¹	⊕⊕⊕⊕ High
EASI100 follow-up: 16 weeks INFORMATIVE	12 per 1,000	209 per 1,000 (101 to 432)	RR 17.91 (8.67 to 37.01)	1209 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
EASI90 follow-up: 16 weeks INFORMATIVE	65 per 1,000	598 per 1,000 (439 to 815)	RR 9.20 (6.76 to 12.54)	1209 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Treatment-emergent AEs follow-up: 16 weeks INFORMATIVE	558 per 1,000	675 per 1,000 (614 to 742)	RR 1.21 (1.10 to 1.33)	1126 (2 RCTs) ¹	⊕⊕⊕○ Moderate ^b
Serious Infections follow-up: 16 weeks INFORMATIVE	4 per 1,000	6 per 1,000 (1 to 29)	RR 1.58 (0.31 to 8.16)	1126 (2 RCTs) ¹	⊕⊕⊕○ Moderate ^c
Upper Respiratory Tract Infection follow-up: 16 weeks INFORMATIVE	60 per 1,000	99 per 1,000 (66 to 146)	RR 1.64 (1.10 to 2.43)	1208 (3 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Any infection follow-up: 16 weeks INFORMATIVE	200 per 1,000	404 per 1,000 (196 to 832)	RR 2.02 (0.98 to 4.16)	82 (1 RCT) ²	⊕⊕⊕○ Moderate ^d

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **RR**: risk ratio

Explanations

- Marginal imprecision (based on MID of 2%) with equitable event rates.
- Wide CI consistent with no difference and meaningful harm (based on MID of 10%).
- CI consistent with no difference and meaningful harm (based on MID of 2%).
- Very small sample leading to wide CI.

Analysis. IGA (0,1)

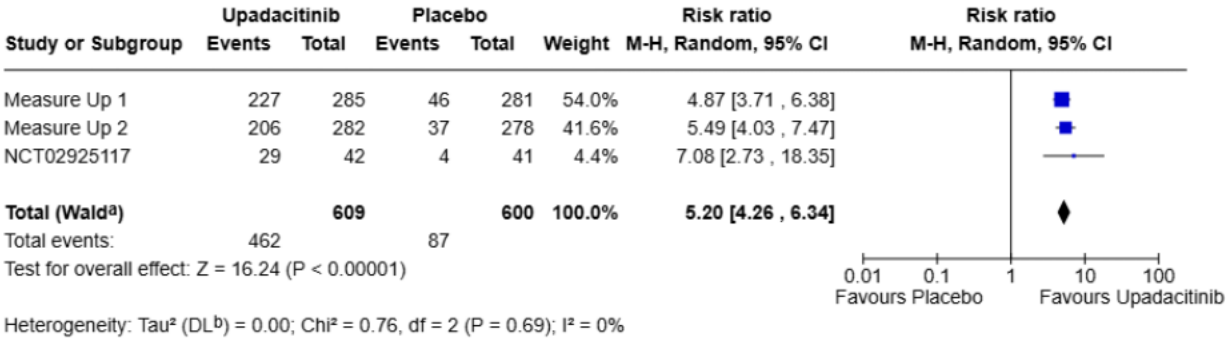


Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

47 *Analysis. EASI75*

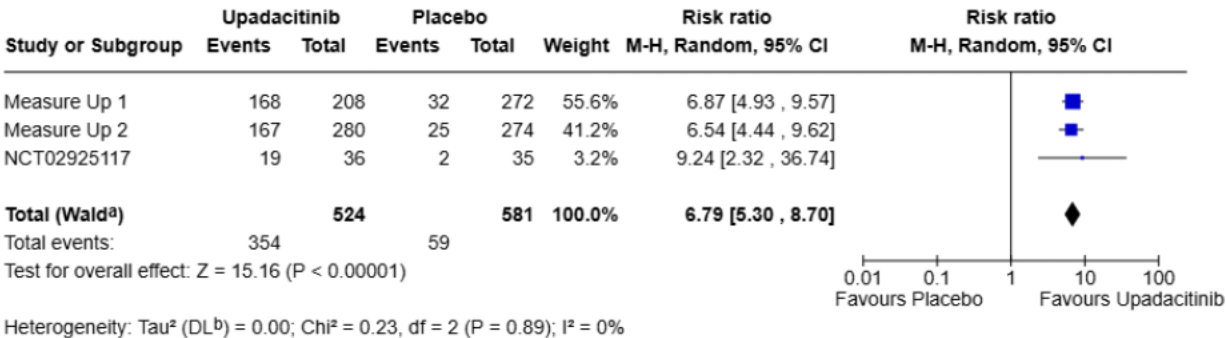


Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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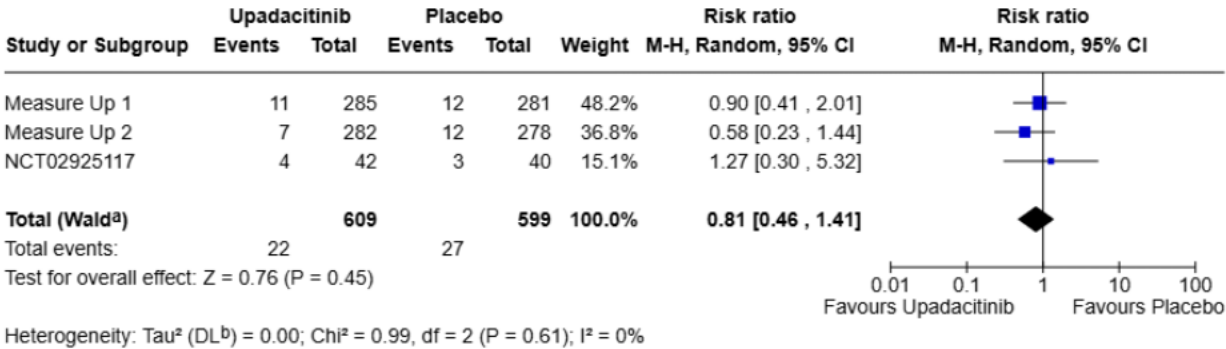
50 *Analysis. Pruritus improvement*



Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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52 *Analysis. Discontinuations*

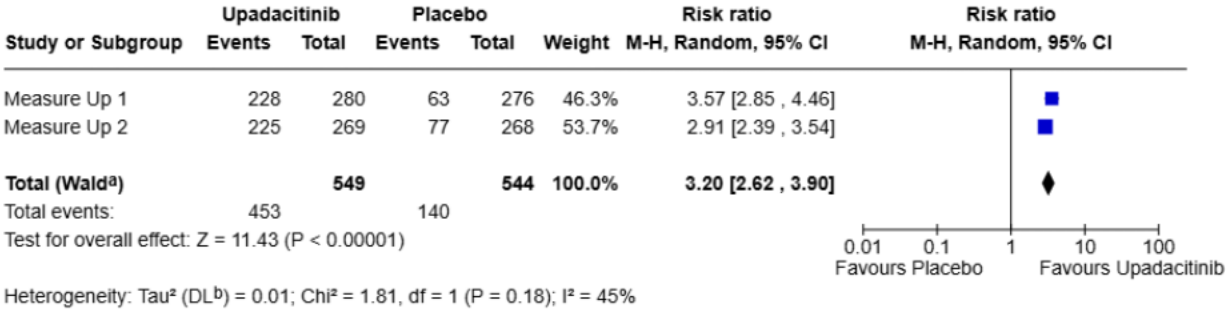


Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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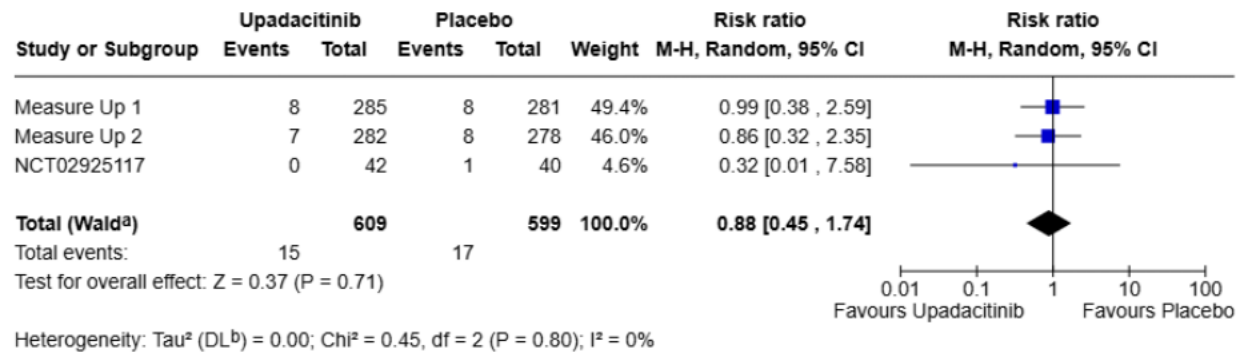
55 *Analysis. POEM*



Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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57 *Analysis. Serious adverse events*



Footnotes

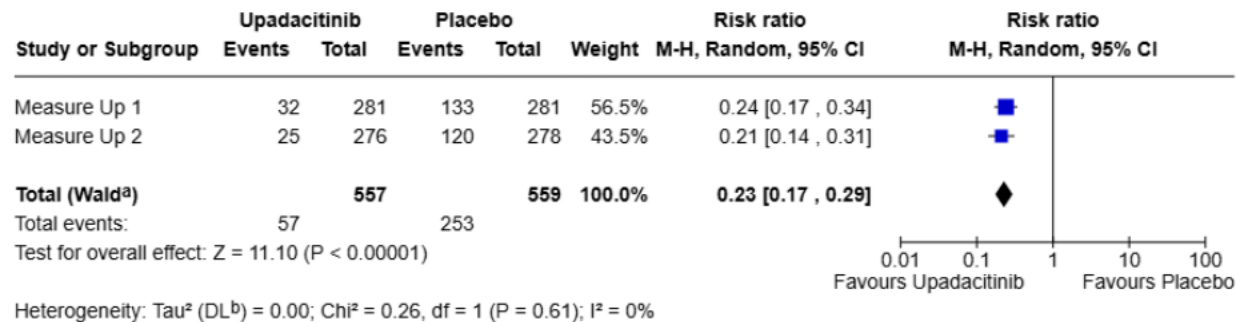
^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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60 *Analysis. Flare prevention*



Footnotes

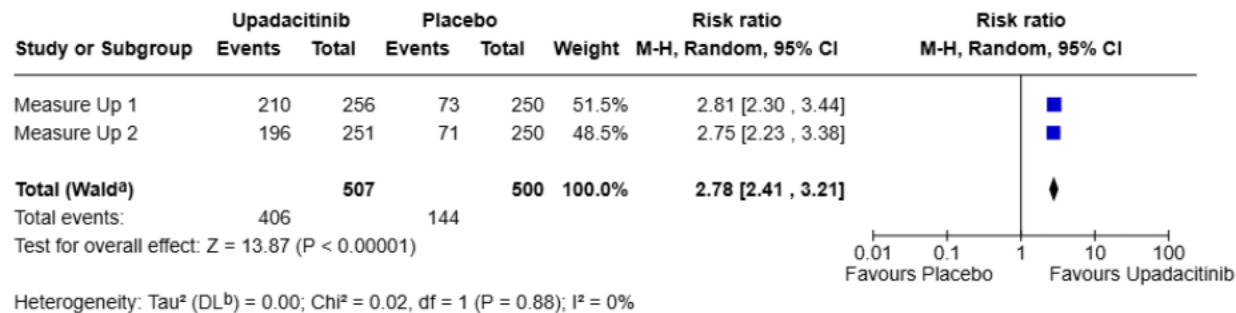
^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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63 *Analysis. Quality of life*



Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

References

1. Guttman-Yassky E, Teixeira HD, Simpson EL, Papp KA, Pangan AL, Blauvelt A et al. Once-daily upadacitinib versus placebo in adolescents and adults with moderate-to-severe atopic dermatitis (Measure Up 1 and Measure Up 2): results from two replicate double-blind, randomised controlled phase 3 trials. Lancet 2021;397:2151-68.
2. Guttman-Yassky E, Thaçi D, Pangan AL, Hong HC, Papp KA, Reich K et al. Upadacitinib in adults with moderate to severe atopic dermatitis: 16-week results from a randomized, placebo-controlled trial. J Allergy Clin Immunol 2020;145:877-84.

e-Table 13. Upadacitinib Combination Therapy (15 mg) GRADE Summary of Findings (Short-term)

Upadacitinib 15mg daily + TCS compared to Placebo + TCS short-term

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term

Intervention: Upadacitinib 15mg daily + TCS

Comparison: Placebo + TCS

Outcomes	Anticipated absolute effects* (95% CI)				Comments
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	Risk with Placebo + TCS	Risk with Upadacitinib 15mg daily + TCS	Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)
IGA (0,1) follow-up: 16 weeks CRITICAL	99 per 1,000	409 per 1,000 (266 to 627)	RR 4.13 (2.69 to 6.33)	785 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High
EASI75 follow-up: 16 weeks CRITICAL	246 per 1,000	679 per 1,000 (490 to 940)	RR 2.76 (1.99 to 3.82)	785 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Pruritus improvement assessed with: ≥ 4-point improvement in patients with baseline NRS score of 4+ follow-up: 16 weeks CRITICAL	150 per 1,000	518 per 1,000 (399 to 670)	RR 3.46 (2.67 to 4.48)	758 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Discontinuations due to AEs follow-up: 16 weeks CRITICAL	20 per 1,000	15 per 1,000 (5 to 45)	RR 0.74 (0.25 to 2.20)	784 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Serious Adverse Events follow-up: 16 weeks CRITICAL	25 per 1,000	21 per 1,000 (8 to 51)	RR 0.81 (0.32 to 2.02)	784 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High ^a
EASI90 follow-up: 16 weeks INFORMATIVE	117 per 1,000	472 per 1,000 (256 to 873)	RR 4.04 (2.19 to 7.48)	785 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Treatment-emergent AEs follow-up: 16 weeks INFORMATIVE	511 per 1,000	542 per 1,000 (486 to 614)	RR 1.06 (0.95 to 1.20)	784 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High
Serious Infections follow-up: 16 weeks INFORMATIVE	8 per 1,000	8 per 1,000 (2 to 38)	RR 1.01 (0.21 to 4.96)	784 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High ^b
Upper respiratory tract infection follow-up: 16 weeks INFORMATIVE	73 per 1,000	70 per 1,000 (39 to 125)	RR 0.96 (0.54 to 1.72)	603 (1 RCT) ²	⊕⊕⊕⊕ High

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **RR**: risk ratio

76 **Explanations**

77 a. Equitable rates in moderate sample suggests safety.

b. Results from a single trial are slightly imprecise, but a second trial reported no events in either arm; The totality of the evidence suggests no meaningful difference in rates.

References

1. Katoh N, Ohya Y, Murota H, Ikeda M, Hu X, Ikeda K et al. A phase 3 randomized, multicenter, double-blind study to evaluate the safety of upadacitinib in combination with topical corticosteroids in adolescent and adult patients with moderate-to-severe atopic dermatitis in Japan (Rising Up): An interim 24-week analysis. JAAD Int 2022;6:27-36.
2. Reich K, Teixeira HD, de Bruin-Weller M, Bieber T, Soong W, Kabashima K et al. Safety and efficacy of upadacitinib in combination with topical corticosteroids in adolescents and adults with moderate-to-severe atopic dermatitis (AD Up): results from a randomised, double-blind, placebo-controlled, phase 3 trial. Lancet 2021;397:2169-81.

e-Table 14. Upadacitinib Combination Therapy (30 mg) GRADE Summary of Findings (Short-term)

Upadacitinib 30mg daily + TCS compared to Placebo + TCS short-term

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term

Intervention: Upadacitinib 30mg daily + TCS

Comparison: Placebo + TCS

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo + TCS	Risk with Upadacitinib 30mg daily + TCS				
IGA (0,1) follow-up: 16 weeks CRITICAL	99 per 1,000	556 per 1,000 (408 to 758)	RR 5.62 (4.12 to 7.66)	782 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
EASI75 follow-up: 16 weeks CRITICAL	246 per 1,000	808 per 1,000 (588 to 1,000)	RR 3.28 (2.39 to 4.51)	782 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High	
Pruritus improvement assessed with: ≥ 4-point improvement in patients with baseline NRS score of 4+ follow-up: 16 weeks CRITICAL	150 per 1,000	601 per 1,000 (467 to 775)	RR 4.02 (3.12 to 5.18)	757 (2 RCTs) ^{1,2}	⊕⊕⊕⊕ High	

Discontinuations due to AEs		13 per 1,000			
follow-up: 16 weeks	20 per 1,000	(4 to 39)	RR 0.64	781	⊕⊕⊕⊕
CRITICAL			(0.21 to 1.94)	(2 RCTs) ^{1,2}	High
Serious Adverse Events		13 per 1,000			
follow-up: 16 weeks	25 per 1,000	(4 to 38)	RR 0.51	781	⊕⊕⊕⊕
CRITICAL			(0.17 to 1.50)	(2 RCTs) ^{1,2}	High
EASI100		226 per 1,000			
follow-up: 16 weeks	13 per 1,000	(83 to 611)	RR 17.14	601	⊕⊕⊕⊕
INFORMATIVE			(6.33 to 46.42)	(1 RCT) ²	High
EASI90		591 per 1,000			
follow-up: 16 weeks	117 per 1,000	(432 to 809)	RR 5.06	785	⊕⊕⊕⊕
INFORMATIVE			(3.70 to 6.93)	(2 RCTs) ^{1,2}	High
Treatment-emergent AEs		747 per 1,000			
follow-up: 16 weeks	511 per 1,000	(404 to 1,000)	RR 1.46	781	⊕⊕⊕○
INFORMATIVE			(0.79 to 2.70)	(2 RCTs) ^{1,2}	Moderate ^a
Serious Infections		5 per 1,000			
follow-up: 16 weeks	8 per 1,000	(0 to 92)	RR 0.62	781	⊕⊕⊕○
INFORMATIVE			(0.03 to 12.03)	(2 RCTs) ^{1,2}	Moderate ^b
Upper respiratory tract infections		78 per 1,000			
follow-up: 16 weeks	73 per 1,000	(44 to 136)	RR 1.07	600	⊕⊕⊕⊕
INFORMATIVE			(0.61 to 1.87)	(1 RCT) ²	High
* The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI). CI: confidence interval; RR: risk ratio					

90 Explanations

91 a. CI consistent with meaningful benefit and harm (based on MID of 10%).

92 b. CI consistent with no difference and meaningful harm (based on MID of 2%).

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References

95 1. Katoh N, Ohya Y, Murota H, Ikeda M, Hu X, Ikeda K et al. A phase 3 randomized, multicenter, double-blind study to evaluate
96 the safety of upadacitinib in combination with topical corticosteroids in adolescent and adult patients with moderate-to-
97 severe atopic dermatitis in Japan (Rising Up): An interim 24-week analysis. JAAD Int 2022;6:27-36.

98 2. Reich K, Teixeira HD, de Bruin-Weller M, Bieber T, Soong W, Kabashima K et al. Safety and efficacy of upadacitinib in
99 combination with topical corticosteroids in adolescents and adults with moderate-to-severe atopic dermatitis (AD Up):
100 results from a randomised, double-blind, placebo-controlled, phase 3 trial. Lancet 2021;397:2169-81.

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102 e-Table 15. Abrocitinib Monotherapy (100 mg) GRADE Summary of Findings (Short-term)

Abrocitinib 100mg daily monotherapy compared to Placebo short-term

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term**Intervention:** Abrocitinib 100mg daily monotherapy**Comparison:** Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Abrocitinib 100mg daily monotherapy				
IGA (0,1) follow-up: 12 weeks CRITICAL	78 per 1,000	263 per 1,000 (159 to 433)	RR 3.37 (2.04 to 5.55)	570 (3 RCTs) ¹⁻³	⊕⊕⊕○ Moderate ^a	
EASI75 follow-up: 12 weeks CRITICAL	122 per 1,000	413 per 1,000 (279 to 611)	RR 3.39 (2.29 to 5.01)	570 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High	
Pruritus improvement Assessed with: ≥4-point improvement from baseline in PP-NRS score follow-up: 12 weeks CRITICAL	163 per 1,000	416 per 1,000 (273 to 634)	RR 2.56 (1.68 to 3.90)	559 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High	
Discontinuation due to Adverse Event follow-up: 12 weeks CRITICAL	123 per 1,000	81 per 1,000 (33 to 193)	RR 0.66 (0.27 to 1.57)	581 (3 RCTs) ¹⁻³	⊕⊕⊕○ Moderate ^b	
POEM Assessed with: change from baseline follow-up: 12 weeks CRITICAL		MD 4.12 lower (6.08 lower to 2.16 lower)	-	445 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^c	
Serious Adverse Events follow-up: 12 weeks	26 per 1,000	30 per 1,000 (9 to 96)	RR 1.15 (0.36 to 3.71)	469 (2 RCTs) ^{2,3}	⊕⊕⊕⊕ High	

CRITICAL					
Quality of life Assessed with: DLQI mean score change from baseline follow-up: 12 weeks CRITICAL		MD 3.69 lower (5.24 lower to 2.13 lower)	-	391 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^d
EASI90 follow-up: 12 weeks INFORMATIVE	59 per 1,000	215 per 1,000 (119 to 389)	RR 3.68 (2.04 to 6.65)	570 (3 RCTs) ¹⁻³	⊕⊕⊕○ Moderate ^e
Treatment-emergent Adverse Events follow-up: 12 weeks INFORMATIVE	555 per 1,000	660 per 1,000 (560 to 777)	RR 1.19 (1.01 to 1.40)	469 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^e
Conjunctivitis Assessed with: participants with conjunctivitis follow-up: 12 weeks INFORMATIVE	0 per 1,000	-- per 1,000 (0 to 0)	RR 4.47 (0.24 to 82.01)	233 (1 RCT) ³	⊕⊕⊕⊕ High
Nasopharyngitis Assessed with: participants with nasopharyngitis follow-up: 12 weeks INFORMATIVE	84 per 1,000	136 per 1,000 (75 to 244)	RR 1.62 (0.90 to 2.91)	469 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^b
Upper respiratory tract infection Assessed with: participants with URTI follow-up: 12 weeks INFORMATIVE	62 per 1,000	73 per 1,000 (37 to 145)	RR 1.19 (0.60 to 2.35)	581 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High
Herpes Viral Infection Assessed with: participants with a herpes viral infection follow-up: 12 weeks INFORMATIVE	0 per 1,000	-- per 1,000 (0 to 0)	RR 5.46 (0.31 to 97.58)	233 (1 RCT) ³	⊕⊕⊕⊕ High
Infections Assessed with: participants with any infection follow-up: 12 weeks	263 per 1,000	411 per 1,000 (297 to 568)	RR 1.56 (1.13 to 2.16)	345 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^b

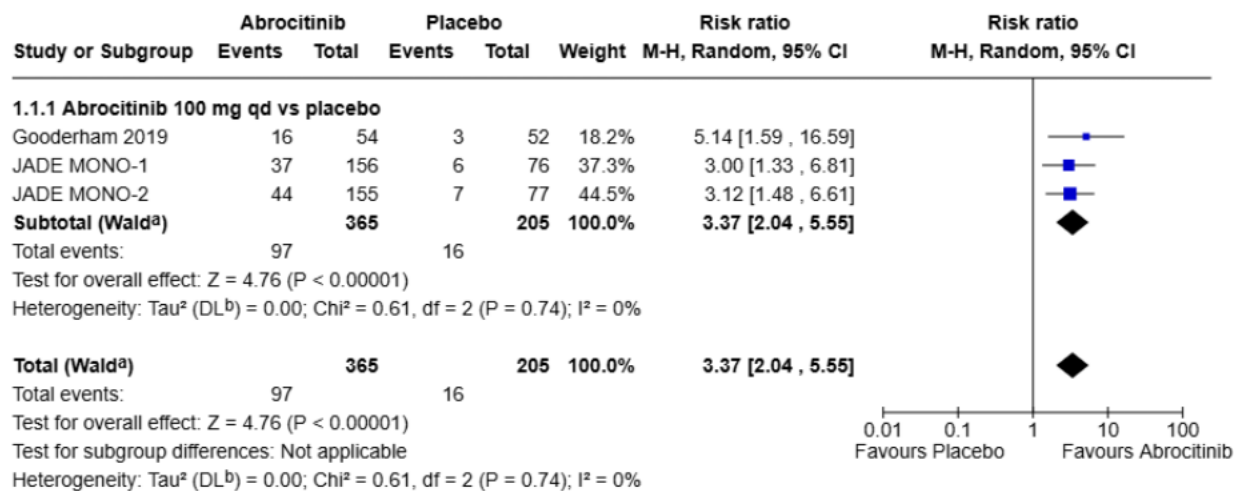
INFORMATIVE					
Folliculitis Assessed with: participants with folliculitis follow-up: 12 weeks INFORMATIVE	26 per 1,000	3 per 1,000 (53 to --)	RR 0.10 (0.00 to 2.05)	236 (1 RCT) ²	⊕⊕⊕⊕ High

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI:** confidence interval; **MD:** mean difference; **RR:** risk ratio

Explanations

- 104 precision: Downgraded one level because the 95% CI for the absolute effect includes benefits smaller than the prespecified MCID (12%)
105 precision: Downgraded one level because the 95% CI includes effects both greater than and smaller than the prespecified MCID (10%)
106 precision: Downgraded one level because the 95% CI includes effects both greater than and smaller than the prespecified MCID (3.4 points)
107 precision: Downgraded one level because the 95% CI includes effects both greater than and smaller than the prespecified MCID (3.3 points)
108 precision: Downgraded one level because the 95% CI for the absolute effect includes benefits smaller than the prespecified MCID (10%)
109

110 Analysis. IGA (0,1)



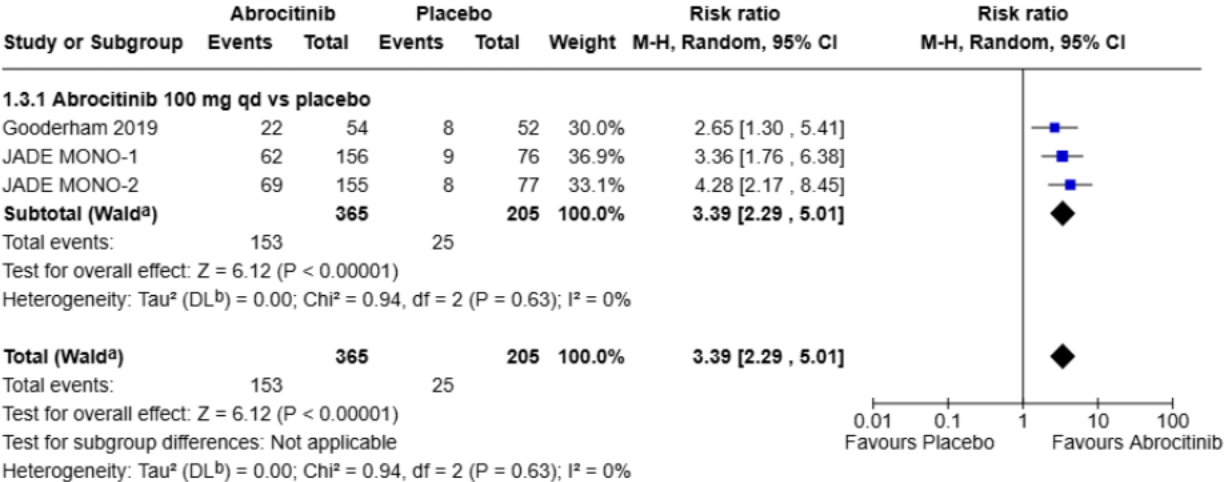
Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

112

113 *Analysis. EASI75*

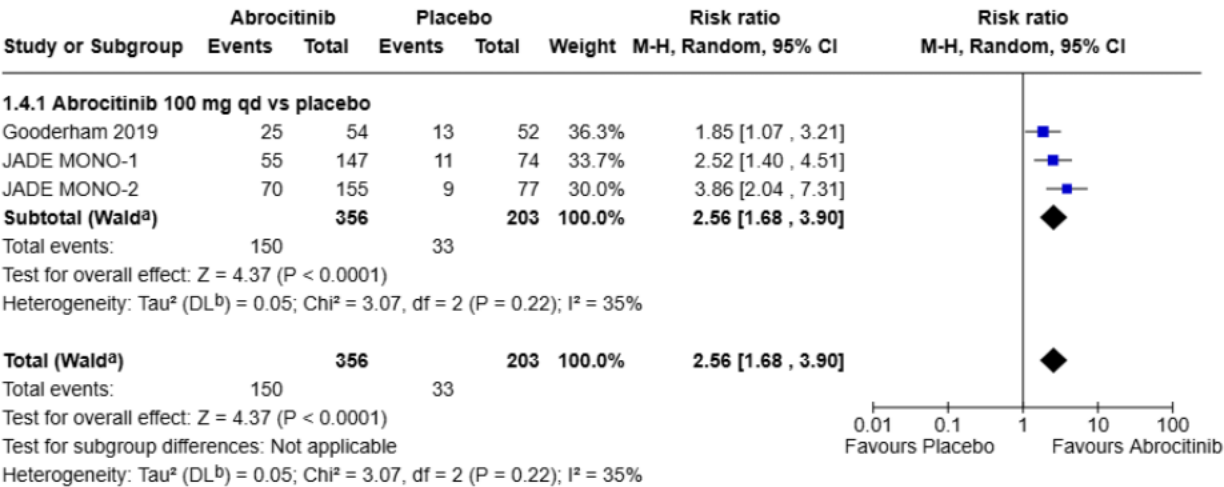


Footnotes

^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

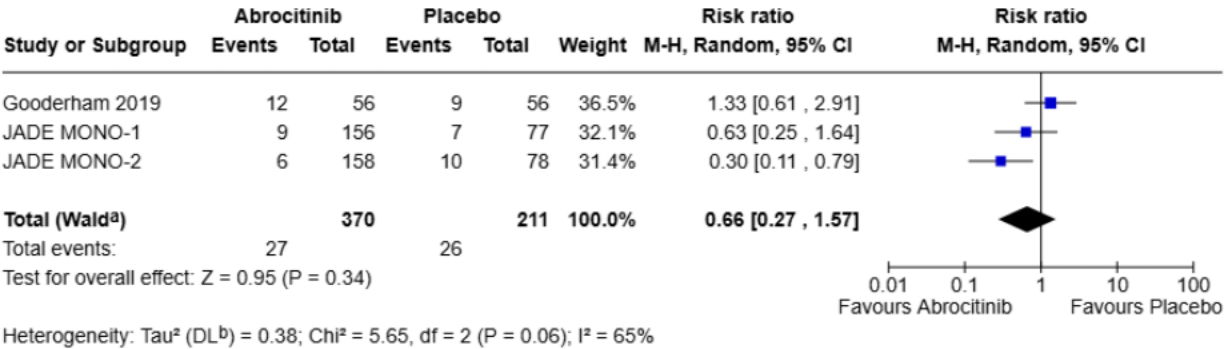
114

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Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

118 *Analysis. Discontinuations*

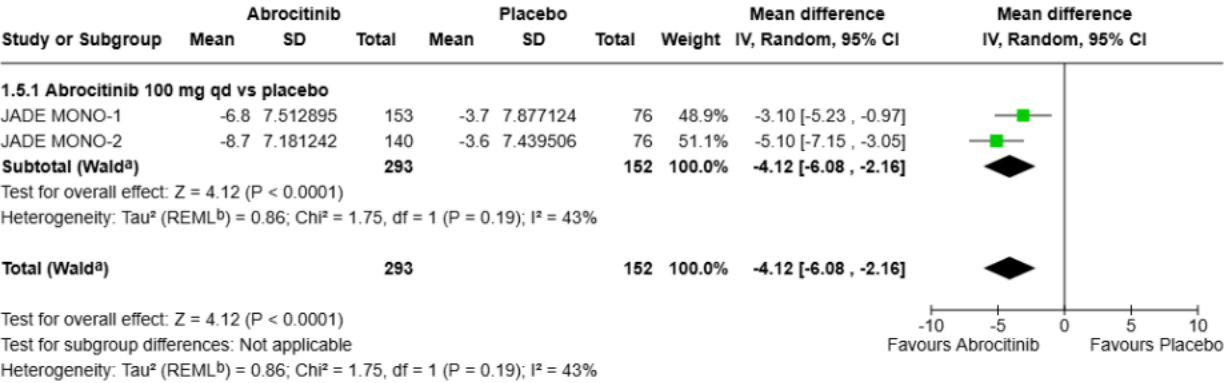


Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

119

120

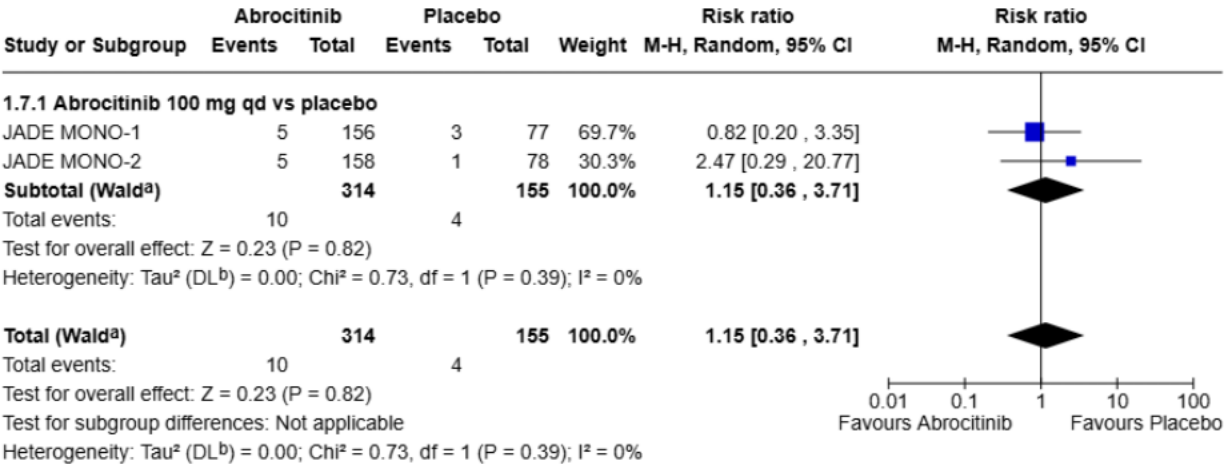
121 *Analysis. POEM*



Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by Restricted Maximum-Likelihood method.

122

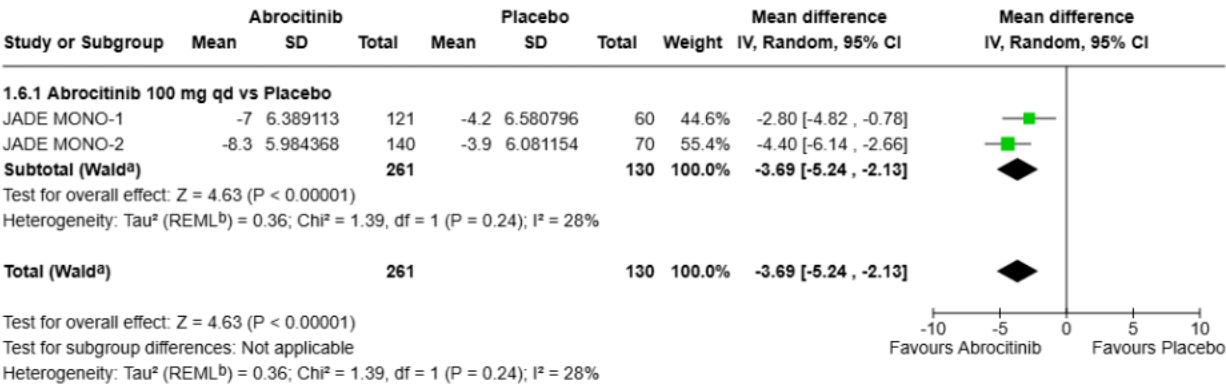
123 *Analysis. Serious adverse events*



Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

124

125



Footnotes

^aCI calculated by Wald-type method.
^bTau² calculated by Restricted Maximum-Likelihood method.

References

1. Gooderham MJ, Forman SB, Bissonnette R, Beebe JS, Zhang W, Banfield C et al. Efficacy and Safety of Oral Janus Kinase 1 Inhibitor Abrocitinib for Patients With Atopic Dermatitis: A Phase 2 Randomized Clinical Trial. JAMA Dermatol 2019;155:1371-9.

2. Silverberg JI, Simpson EL, Thyssen JP, Gooderham M, Chan G, Feeney C et al. Efficacy and Safety of Abrocitinib in Patients With Moderate-to-Severe Atopic Dermatitis: A Randomized Clinical Trial. JAMA Dermatol 2020;156:863-73.

3. Simpson EL, Sinclair R, Forman S, Wollenberg A, Aschoff R, Cork M et al. Efficacy and safety of abrocitinib in adults and adolescents with moderate-to-severe atopic dermatitis (JADE MONO-1): a multicentre, double-blind, randomised, placebo-controlled, phase 3 trial. Lancet 2020;396:255-66.

e-Table 16. Abrocitinib Monotherapy (200 mg) GRADE Summary of Findings (Short-term)

Abrocitinib 200mg daily monotherapy compared to Placebo short-term

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term

Intervention: Abrocitinib 200mg daily monotherapy

Comparison: Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Abrocitinib 200mg daily monotherapy				
IGA (0,1) follow-up: 12 weeks CRITICAL	78 per 1,000	405 per 1,000 (249 to 659)	RR 5.19 (3.19 to 8.44)	561 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High	
EASI75 follow-up: 12 weeks CRITICAL	122 per 1,000	621 per 1,000 (426 to 905)	RR 5.09 (3.49 to 7.42)	560 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High	
Pruritus improvement Assessed with: PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 12 weeks CRITICAL	163 per 1,000	554 per 1,000 (359 to 852)	RR 3.41 (2.21 to 5.24)	552 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High	
Discontinuation due to Adverse Event follow-up: 12 weeks CRITICAL	123 per 1,000	68 per 1,000 (32 to 140)	RR 0.55 (0.26 to 1.14)	575 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High	
POEM Assessed with: POEM, change from baseline follow-up: 12 weeks CRITICAL		MD 7.16 lower (8.63 lower to 5.69 lower)	-	447 (2 RCTs)	⊕⊕⊕⊕ High	
Serious Adverse Events follow-up: 12 weeks	26 per 1,000	22 per 1,000 (7 to 76)	RR 0.87 (0.26 to 2.94)	464 (2 RCTs)	⊕⊕⊕⊕ High	

CRITICAL					
Quality of life Assessed with: DLQI, change from baseline follow-up: 12 weeks CRITICAL		MD 5.48 lower (6.79 lower to 4.18 lower)	-	388 (2 RCTs)	⊕⊕⊕⊕ High
EASI90 follow-up: 12 weeks INFORMATIVE	59 per 1,000	379 per 1,000 (215 to 670)	RR 6.48 (3.67 to 11.44)	560 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High
Treatment-emergent Adverse Events follow-up: 12 weeks INFORMATIVE	555 per 1,000	721 per 1,000 (616 to 843)	RR 1.30 (1.11 to 1.52)	464 (2 RCTs)	⊕⊕⊕⊕ High
Conjunctivitis Assessed with: Participants with conjunctivitis follow-up: 12 weeks INFORMATIVE	0 per 1,000	-- per 1,000 (0 to 0)	RR 4.53 (0.25 to 83.06)	231 (1 RCT)	⊕⊕⊕⊕ High
Nasopharyngitis Assessed with: participants with nasopharyngitis follow-up: 12 weeks INFORMATIVE	84 per 1,000	97 per 1,000 (52 to 180)	RR 1.16 (0.62 to 2.15)	464 (2 RCTs)	⊕⊕⊕⊕ High
Upper respiratory tract infection Assessed with: participants with URTI follow-up: 12 weeks INFORMATIVE	62 per 1,000	62 per 1,000 (31 to 122)	RR 1.01 (0.51 to 1.98)	575 (3 RCTs) ¹⁻³	⊕⊕⊕⊕ High
Herpes Viral Infection Assessed with: participants with a herpes viral infection follow-up: 12 weeks INFORMATIVE	0 per 1,000	-- per 1,000 (0 to 0)	RR 4.53 (0.25 to 83.06)	231 (1 RCT)	⊕⊕⊕⊕ High
Infections	263 per 1,000	389 per 1,000 (279 to 542)	RR 1.48 (1.06 to 2.06)	342 (2 RCTs)	⊕⊕⊕⊕ High

Assessed with: participants with any infection follow-up: 12 weeks INFORMATIVE					
Folliculitis Assessed with: participants with folliculitis follow-up: 12 weeks INFORMATIVE	26 per 1,000	32 per 1,000 (6 to 163)	RR 1.26 (0.25 to 6.34)	233 (1 RCT)	⊕⊕⊕⊕ High

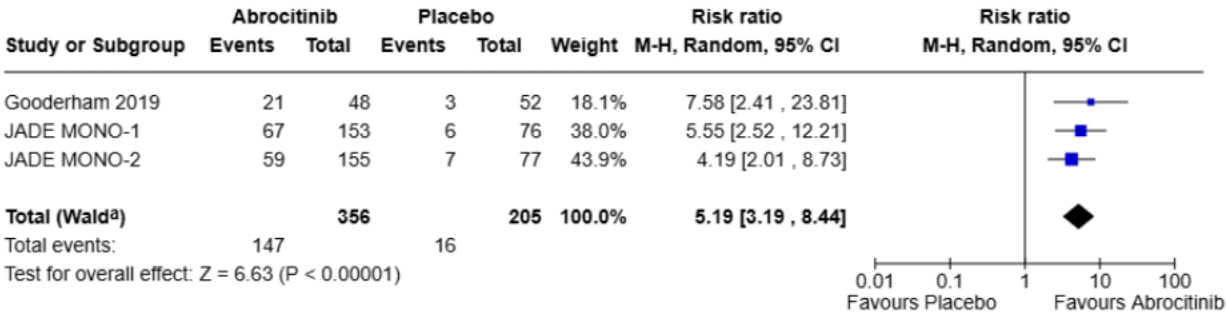
***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **MD**: mean difference; **RR**: risk ratio

142 **Explanations**

143 crosses the 10% MCID and includes both meaningful benefit and harm.

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145 *Analysis. IGA (0,1)*



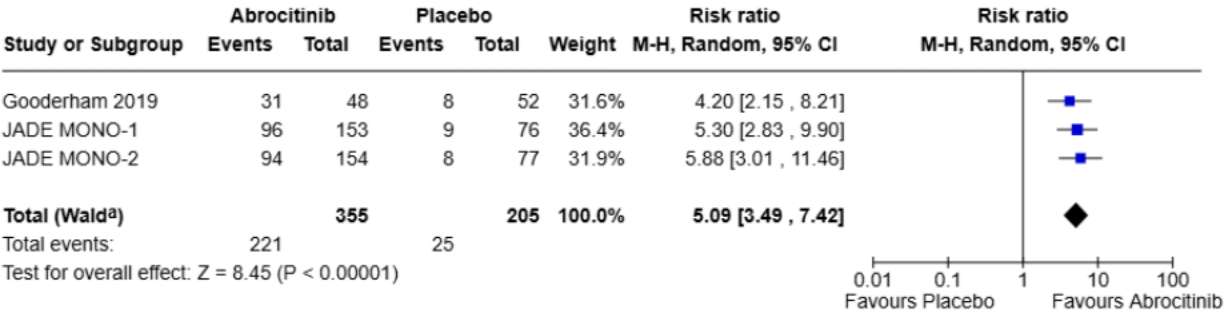
Footnotes

^aCI calculated by Wald-type method.

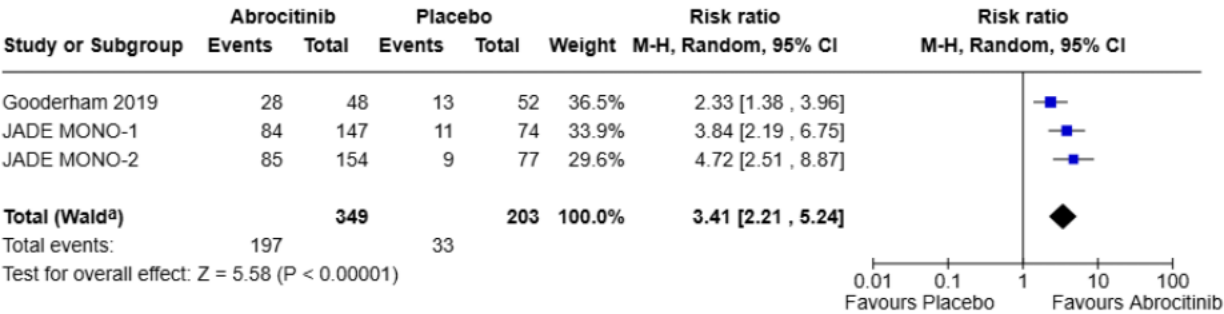
^bTau² calculated by DerSimonian and Laird method.

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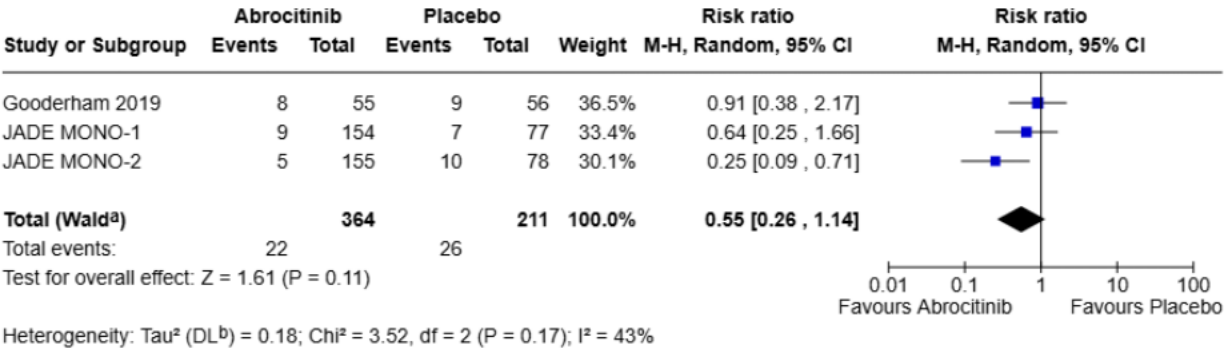


Footnotes
^aCI calculated by Wald-type method.
^b Tau^2 calculated by DerSimonian and Laird method.



Footnotes
^aCI calculated by Wald-type method.
^b Tau^2 calculated by DerSimonian and Laird method.

153 *Analysis. Discontinuations*

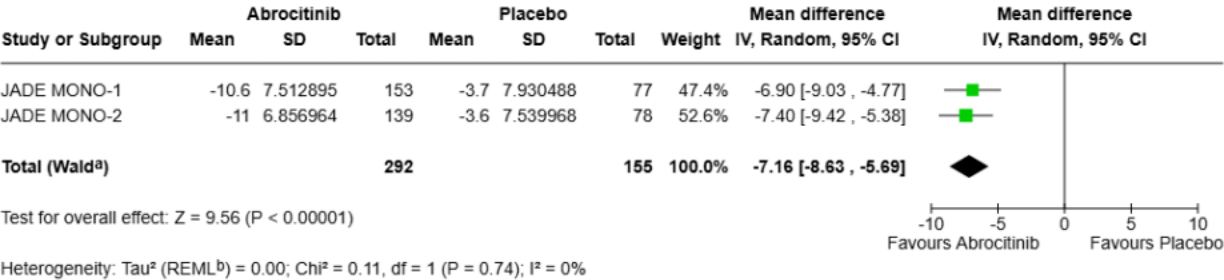


Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by DerSimonian and Laird method.

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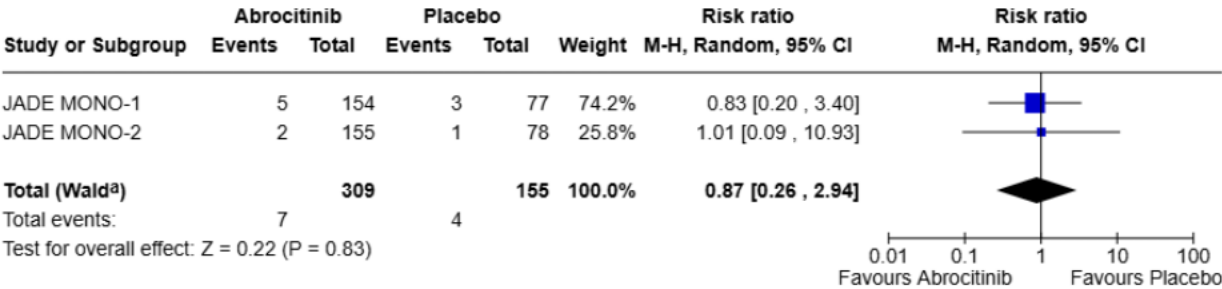
156 *Analysis. POEM*



Footnotes
^aCI calculated by Wald-type method.
^bTau² calculated by Restricted Maximum-Likelihood method.

157

158 *Analysis. Serious adverse events*



Heterogeneity: Tau² (DL^b) = 0.00; Chi² = 0.02, df = 1 (P = 0.89); I² = 0%

Footnotes

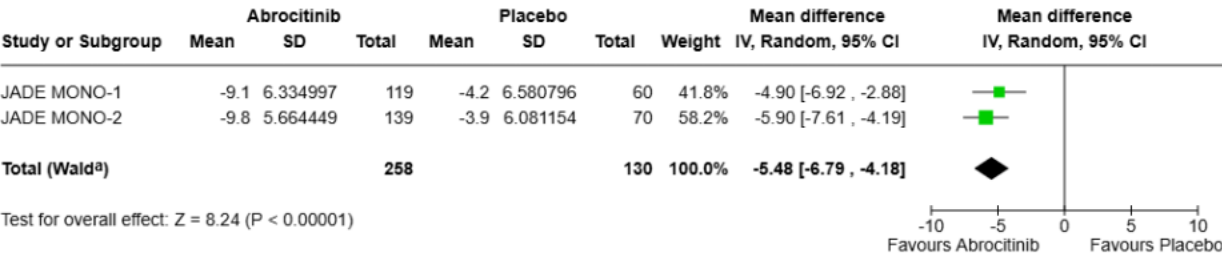
^aCI calculated by Wald-type method.

^bTau² calculated by DerSimonian and Laird method.

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161 *Analysis. Quality of life*



Heterogeneity: Tau² (REML^b) = 0.00; Chi² = 0.55, df = 1 (P = 0.46); I² = 0%

Footnotes

^aCI calculated by Wald-type method.

^bTau² calculated by Restricted Maximum-Likelihood method.

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References

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169 2. Silverberg JI, Simpson EL, Thyssen JP, Gooderham M, Chan G, Feeney C et al. Efficacy and Safety of Abrocitinib in Patients
170 With Moderate-to-Severe Atopic Dermatitis: A Randomized Clinical Trial. JAMA Dermatol 2020;156:863-73.
171 3. Simpson EL, Sinclair R, Forman S, Wollenberg A, Aschoff R, Cork M et al. Efficacy and safety of abrocitinib in adults and
172 adolescents with moderate-to-severe atopic dermatitis (JADE MONO-1): a multicentre, double-blind, randomised, placebo-
173 controlled, phase 3 trial. Lancet 2020;396:255-66.
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176

177 e-Table 17. Abrocitinib Combination Therapy (100 mg) GRADE Summary of Findings (Short-term)

Abrocitinib 100mg daily + TCS compared to Placebo + TCS short-term⁴

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term
Intervention: Abrocitinib 100mg daily + TCS
Comparison: Placebo + TCS

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo + TCS	Risk with Abrocitinib 100mg daily + TCS				
IGA (0,1) follow-up: 16 weeks CRITICAL	129 per 1,000	348 per 1,000 (213 to 568)	RR 2.70 (1.65 to 4.40)	354 (1 RCT)	⊕⊕⊕⊕ High	
EASI75 follow-up: 16 weeks CRITICAL	306 per 1,000	604 per 1,000 (454 to 800)	RR 1.97 (1.48 to 2.61)	353 (1 RCT)	⊕⊕⊕⊕ High	

Pruritus improvement PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 16 weeks CRITICAL	138 per 1,000	318 per 1,000 (199 to 507)	RR 2.30 (1.44 to 3.66)	366 (1 RCT)	⊕⊕⊕⊕ High
Discontinuation due to Adverse Event follow-up: 16 weeks CRITICAL	38 per 1,000	25 per 1,000 (8 to 81)	RR 0.66 (0.21 to 2.12)	369 (1 RCT)	⊕⊕⊕⊕ High
POEM Assessed with: POEM, change from baseline follow-up: 16 weeks CRITICAL		MD 4.2 lower (5.76 lower to 2.64 lower)	-	366 (1 RCT)	⊕⊕⊕⊕ High
Serious Adverse Events follow-up: 16 weeks CRITICAL	23 per 1,000	25 per 1,000 (6 to 99)	RR 1.10 (0.28 to 4.33)	369 (1 RCT)	⊕⊕⊕⊕ High
Quality of life Assessed with: DLQI, change from baseline follow-up: 16 weeks CRITICAL		MD 2.8 lower (3.9 lower to 1.7 lower)	-	369 (1 RCT)	⊕⊕⊕○ Moderate ^a
EASI90 follow-up: 16 weeks INFORMATIVE	115 per 1,000	378 per 1,000 (229 to 625)	RR 3.30 (2.00 to 5.46)	369 (1 RCT)	⊕⊕⊕⊕ High
Treatment-emergent Adverse Events follow-up: 16 weeks INFORMATIVE	534 per 1,000	508 per 1,000 (417 to 625)	RR 0.95 (0.78 to 1.17)	369 (1 RCT)	⊕⊕⊕⊕ High
Conjunctivitis Assessed with: participants with conjunctivitis follow-up: 16 weeks INFORMATIVE	23 per 1,000	8 per 1,000 (1 to 50)	RR 0.37 (0.06 to 2.17)	369 (1 RCT)	⊕⊕⊕⊕ High
Nasopharyngitis	69 per 1,000	93 per 1,000 (44 to 195)	RR 1.35 (0.64 to 2.84)	369 (1 RCT)	⊕⊕⊕⊕ High

Assessed with: participants with nasopharyngitis follow-up: 16 weeks INFORMATIVE					
Upper respiratory tract infection Assessed with: participants with URTI follow-up: 16 weeks INFORMATIVE	46 per 1,000	50 per 1,000 (19 to 131)	RR 1.10 (0.42 to 2.87)	369 (1 RCT)	⊕⊕⊕⊕ High
Herpes Viral Infection Assessed with: participants with a herpes viral infection follow-up: 16 weeks INFORMATIVE	0 per 1,000	-- per 1,000 (0 to 0)	RR 2.76 (0.13 to 57.09)	369 (1 RCT)	⊕⊕⊕⊕ High
Infections Assessed with: participants with any infection follow-up: 16 weeks INFORMATIVE	232 per 1,000	429 per 1,000 (244 to 754)	RR 1.85 (1.05 to 3.25)	112 (1 RCT)	⊕⊕⊕⊕ High

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI:** confidence interval; **MD:** mean difference; **RR:** risk ratio

178 **Explanations**

179 a. Imprecision: The 95 % CI crosses the prespecified MCID (3.3 points)

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183 **e-Table 18. Abrocitinib Combination Therapy (200 mg) GRADE Summary of Findings (Short-term)**

Abrocitinib 200mg daily + TCS compared to Placebo + TCS short-term⁴

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis short-term

Intervention: Abrocitinib 200mg daily + TCS

Comparison: Placebo + TCS

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo + TCS	Risk with Abrocitinib 200mg daily + TCS				
IGA (0,1) follow-up: 16 weeks CRITICAL	129 per 1,000	475 per 1,000 (294 to 766)	RR 3.68 (2.28 to 5.94)	345 (1 RCT)	⊕⊕⊕⊕ High	
EASI75 follow-up: 16 weeks CRITICAL	306 per 1,000	711 per 1,000 (539 to 938)	RR 2.32 (1.76 to 3.06)	345 (1 RCT)	⊕⊕⊕⊕ High	
Pruritus improvement Assessed with: PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 16 weeks CRITICAL	138 per 1,000	492 per 1,000 (313 to 770)	RR 3.55 (2.26 to 5.56)	356 (1 RCT)	⊕⊕⊕⊕ High	
Discontinuation due to Adverse Event follow-up: 16 weeks CRITICAL	38 per 1,000	44 per 1,000 (15 to 127)	RR 1.16 (0.40 to 3.32)	357 (1 RCT)	⊕⊕⊕⊕ High	
POEM Assessed with: POEM, change from baseline follow-up: 16 weeks CRITICAL		MD 7.5 lower (9.03 lower to 5.97 lower)	-	357 (1 RCT)	⊕⊕⊕⊕ High	
Severe Adverse Event follow-up: 16 weeks CRITICAL	23 per 1,000	18 per 1,000 (4 to 78)	RR 0.77 (0.18 to 3.40)	357 (1 RCT)	⊕⊕⊕⊕ High	
Serious Adverse Events follow-up: 16 weeks CRITICAL	23 per 1,000	9 per 1,000 (2 to 52)	RR 0.39 (0.07 to 2.28)	357 (1 RCT)	⊕⊕⊕⊕ High	

Quality of life Assessed with: DLQI, change from baseline follow-up: 16 weeks CRITICAL	MD 5.5 lower (6.6 lower to 4.4 lower)		-	357 (1 RCT)	⊕⊕⊕⊕ High
EASI90 follow-up: 16 weeks INFORMATIVE	115 per 1,000	487 per 1,000 (297 to 798)	RR 4.25 (2.59 to 6.97)	357 (1 RCT)	⊕⊕⊕⊕ High
Treatment-emergent Adverse Events follow-up: 16 weeks INFORMATIVE	534 per 1,000	620 per 1,000 (513 to 748)	RR 1.16 (0.96 to 1.40)	357 (1 RCT)	⊕⊕⊕⊕ High
Conjunctivitis Assessed with: Participants with conjunctivitis follow-up: 16 weeks INFORMATIVE	23 per 1,000	13 per 1,000 (3 to 65)	RR 0.58 (0.12 to 2.83)	357 (1 RCT)	⊕⊕⊕⊕ High
Nasopharyngitis Assessed with: participants with nasopharyngitis follow-up: 16 weeks INFORMATIVE	69 per 1,000	67 per 1,000 (30 to 148)	RR 0.97 (0.44 to 2.15)	357 (1 RCT)	⊕⊕⊕⊕ High
Upper respiratory tract infection Assessed with: participants with URTI follow-up: 16 weeks INFORMATIVE	56 per 1,000	53 per 1,000 (31 to 94)	RR 0.96 (0.55 to 1.69)	932 (4 RCTs)	⊕⊕⊕⊕ High
Herpes Viral Infection Assessed with: participants with a herpes viral infection follow-up: 16 weeks INFORMATIVE	0 per 1,000	-- per 1,000 (0 to 0)	RR 5.23 (0.28 to 96.44)	357 (1 RCT)	⊕⊕⊕⊕ High

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI:** confidence interval; **MD:** mean difference; **RR:** risk ratio

184

185

- 186 1. Gooderham MJ, Forman SB, Bissonnette R, Beebe JS, Zhang W, Banfield C et al. Efficacy and Safety of Oral Janus Kinase 1
187 Inhibitor Abrocitinib for Patients With Atopic Dermatitis: A Phase 2 Randomized Clinical Trial. JAMA Dermatol 2019;155:1371-
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192 adolescents with moderate-to-severe atopic dermatitis (JADE MONO-1): a multicentre, double-blind, randomised, placebo-
193 controlled, phase 3 trial. Lancet 2020;396:255-66.
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196

e-Table 19. Abrocitinib Monotherapy (100 mg) GRADE Summary of Findings (Long-term)

Abrocitinib 100mg daily monotherapy compared to Placebo long-term ¹						
Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis long-term Intervention: Abrocitinib 100mg daily monotherapy Comparison: Placebo						
Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Abrocitinib 100mg daily monotherapy				
IGA (0,1) follow-up: 52 weeks CRITICAL	117 per 1,000	369 per 1,000 (255 to 532)	RR 3.14 (2.17 to 4.53)	522 (1 RCT)	⊕⊕⊕⊕ High	
EASI75 follow-up: 52 weeks CRITICAL	140 per 1,000	465 per 1,000 (335 to 645)	RR 3.32 (2.39 to 4.60)	522 (1 RCT)	⊕⊕⊕⊕ High	
Pruritus improvement PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 52 weeks CRITICAL	83 per 1,000	273 per 1,000 (172 to 434)	RR 3.28 (2.06 to 5.21)	468 (1 RCT)	⊕⊕⊕⊕ High	
Discontinuation due to Adverse Events Follow-up: 40 weeks CRITICAL	15 per 1,000	19 per 1,000 (5 to 70)	RR 1.26 (0.34 to 4.64)	532 (1 RCT)	⊕⊕⊕⊕ High	
Serious Adverse Events Follow-up: 40 weeks CRITICAL	7 per 1,000	8 per 1,000 (1 to 53)	RR 1.01 (0.14 to 7.10)	532 (1 RCT)	⊕⊕⊕⊕ High	
Flares Assessed with: number of patients with loss of response requiring	809 per 1,000	429 per 1,000 (364 to 493)	RR 0.53 (0.45 to 0.61)	532 (1 RCT)	⊕⊕⊕⊕ High	

rescue medication follow-up: 40 weeks CRITICAL					
EASI90 follow-up: 52 weeks INFORMATIVE	106 per 1,000	375 per 1,000 (256 to 552)	RR 3.54 (2.41 to 5.20)	522 (1 RCT)	⊕⊕⊕⊕ High
Treatment-emergent Adverse Events Follow-up: 40 weeks INFORMATIVE	453 per 1,000	539 per 1,000 (453 to 639)	RR 1.19 (1.00 to 1.41)	532 (1 RCT)	⊕⊕⊕⊕ High
Serious Infections Assessed with: patients with any serious infection Follow-up: 40 weeks INFORMATIVE	7 per 1,000	8 per 1,000 (1 to 53)	RR 1.01 (0.14 to 7.10)	532 (1 RCT)	⊕⊕⊕⊕ High
Any Infection Assessed with: patients with any infection Follow-up: 40 weeks INFORMATIVE	49 per 1,000	117 per 1,000 (63 to 219)	RR 2.40 (1.29 to 4.49)	532 (1 RCT)	⊕⊕⊕⊕ High
Herpes Viral Infection assessed with: participants with a herpes viral infection follow-up: 40 weeks INFORMATIVE	7 per 1,000	8 per 1,000 (1 to 53)	RR 1.01 (0.14 to 7.10)	532 (1 RCT)	⊕⊕⊕⊕ High
Nasopharyngitis Assessed with: participants with nasopharyngitis Follow-up: 40 weeks INFORMATIVE	19 per 1,000	38 per 1,000 (13 to 109)	RR 2.02 (0.70 to 5.82)	532 (1 RCT)	⊕⊕⊕⊕ High
Upper respiratory tract infection Assessed with: participants with URTI Follow-up: 40 weeks INFORMATIVE	22 per 1,000	30 per 1,000 (11 to 86)	RR 1.34 (0.47 to 3.82)	532 (1 RCT)	⊕⊕⊕⊕ High

Severe adverse events follow-up: 40 weeks INFORMATIVE	56 per 1,000	34 per 1,000 (15 to 76)	RR 0.60 (0.27 to 1.36)	532 (1 RCT)	⊕⊕⊕⊕ High
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***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI:** confidence interval; **RR:** risk ratio

References

1. Blauvelt A, Silverberg JI, Lynde CW, Bieber T, Eisman S, Zdybski J et al. Abrocitinib induction, randomized withdrawal, and retreatment in patients with moderate-to-severe atopic dermatitis: Results from the JAK1 Atopic Dermatitis Efficacy and Safety (JADE) REGIMEN phase 3 trial. J Am Acad Dermatol 2022;86:104-12.

e-Table 20. Abrocitinib Monotherapy (200 mg) GRADE Summary of Findings (Long-term)

Abrocitinib 200mg daily monotherapy compared to Placebo long-term¹

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis who responded to abrocitinib at 12 weeks

Intervention: Abrocitinib 200mg daily monotherapy

Comparison: Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Abrocitinib 200mg daily monotherapy				
IGA (0,1) follow-up: 40 weeks CRITICAL	117 per 1,000	541 per 1,000 (382 to 767)	RR 4.61 (3.25 to 6.53)	521 (1 RCT)	⊕⊕⊕⊕ High	
EASI75 follow-up: 40 weeks CRITICAL	140 per 1,000	657 per 1,000 (482 to 898)	RR 4.69 (3.44 to 6.41)	521 (1 RCT)	⊕⊕⊕⊕ High	

Pruritus improvement Assessed with: PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 40 weeks CRITICAL	83 per 1,000	490 per 1,000 (318 to 756)	RR 5.88 (3.82 to 9.07)	456 (1 RCT)	⊕⊕⊕⊕ High
Discontinuation due to Adverse Events follow-up: 40 weeks CRITICAL	15 per 1,000	60 per 1,000 (20 to 178)	RR 4.02 (1.36 to 11.85)	533 (1 RCT)	⊕⊕⊕○ Moderate ^a
Severe adverse events follow-up: 40 weeks CRITICAL	56 per 1,000	56 per 1,000 (28 to 113)	RR 1.00 (0.50 to 2.01)	533 (1 RCT)	⊕⊕⊕○ Moderate ^b
Serious Adverse Events follow-up: 40 weeks CRITICAL	7 per 1,000	49 per 1,000 (11 to 214)	RR 6.52 (1.49 to 28.63)	533 (1 RCT)	⊕⊕⊕○ Moderate ^c
Flares Assessed with: number of patients with loss of response requiring rescue medication follow-up: 40 weeks CRITICAL	809 per 1,000	186 per 1,000 (146 to 243)	RR 0.23 (0.18 to 0.30)	533 (1 RCT)	⊕⊕⊕⊕ High
EASI90 follow-up: 40 weeks INFORMATIVE	106 per 1,000	545 per 1,000 (378 to 787)	RR 5.14 (3.56 to 7.42)	521 (1 RCT)	⊕⊕⊕⊕ High
Treatment-emergent Adverse Events follow-up: 40 weeks INFORMATIVE	453 per 1,000	630 per 1,000 (539 to 743)	RR 1.39 (1.19 to 1.64)	533 (1 RCT)	⊕⊕⊕⊕ High
Serious Infections Assessed with: patients with any serious infection follow-up: 40 weeks INFORMATIVE	7 per 1,000	19 per 1,000 (4 to 96)	RR 2.51 (0.49 to 12.82)	533 (1 RCT)	⊕⊕⊕⊕ High

Any Infection Assessed with: patients with any infection follow-up: 40 weeks INFORMATIVE	49 per 1,000	166 per 1,000 (91 to 300)	RR 3.40 (1.87 to 6.16)	533 (1 RCT)	⊕⊕⊕⊕ High
Herpes Viral Infection Assessed with: participants with a herpes viral infection follow-up: 40 weeks INFORMATIVE	7 per 1,000	34 per 1,000 (7 to 155)	RR 4.52 (0.99 to 20.71)	533 (1 RCT)	⊕⊕⊕○ Moderate ^d
Nasopharyngitis Assessed with: participants with nasopharyngitis follow-up: 40 weeks INFORMATIVE	19 per 1,000	68 per 1,000 (25 to 180)	RR 3.61 (1.36 to 9.59)	533 (1 RCT)	⊕⊕⊕⊕ High
Upper respiratory tract infection Assessed with: participants with URTI follow-up: 40 weeks INFORMATIVE	22 per 1,000	30 per 1,000 (11 to 85)	RR 1.34 (0.47 to 3.80)	533 (1 RCT)	⊕⊕⊕⊕ High
* The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI). CI: confidence interval; RR: risk ratio					

Explanations

- a. CI crosses the 10% MCID threshold and includes both clinically important harm and no important difference.
- b. CI consistent with both meaningful benefit and harm (based on MID of 2%)
- c. CI consistent with no difference and meaningful harm (based on MID of 2%)
- d. CI crosses the 20% MCID threshold and includes no important difference and clinically important harm.

References

1. Blauvelt A, Silverberg JI, Lynde CW, Bieber T, Eisman S, Zdybski J et al. Abrocitinib induction, randomized withdrawal, and retreatment in patients with moderate-to-severe atopic dermatitis: Results from the JAK1 Atopic Dermatitis Efficacy and Safety (JADE) REGIMEN phase 3 trial. J Am Acad Dermatol 2022;86:104-12.

e-Table 21. Baricitinib Monotherapy (2 mg) GRADE Summary of Findings (Short-term)

Baricitinib 2mg monotherapy daily for 16 weeks compared to Placebo

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis

Intervention: Baricitinib 2mg monotherapy daily for 16 weeks

Comparison: Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Baricitinib 2mg monotherapy daily for 16 weeks				
IGA (0,1) follow-up: 16 weeks CRITICAL	49 per 1,000	147 per 1,000 (96 to 227)	RR 3.04 (1.97 to 4.68)	1032 (3 RCTs) ^{1,2}	⊕⊕⊕○ Moderate ^a	
EASI75 follow-up: 16 weeks CRITICAL	77 per 1,000	216 per 1,000 (154 to 302)	RR 2.82 (2.01 to 3.95)	1032 (3 RCTs)	⊕⊕⊕○ Moderate ^b	
Pruritus improvement Assessed with: PP-NRS ≥4-point improvement follow-up: 16 weeks CRITICAL	58 per 1,000	179 per 1,000 (117 to 271)	RR 3.06 (2.01 to 4.64)	934 (3 RCTs)	⊕⊕⊕○ Moderate ^c	
Discontinuation due to Adverse Event follow-up: 16 weeks CRITICAL	16 per 1,000	18 per 1,000 (7 to 46)	RR 1.17 (0.47 to 2.95)	1030 (3 RCTs)	⊕⊕⊕⊕ High	
POEM Assessed with: POEM, mean change from baseline follow-up: 16 weeks CRITICAL		MD 4.57 lower (6.04 lower to 3.11 lower)	-	509 (3 RCTs)	⊕⊕⊕○ Moderate ^d	

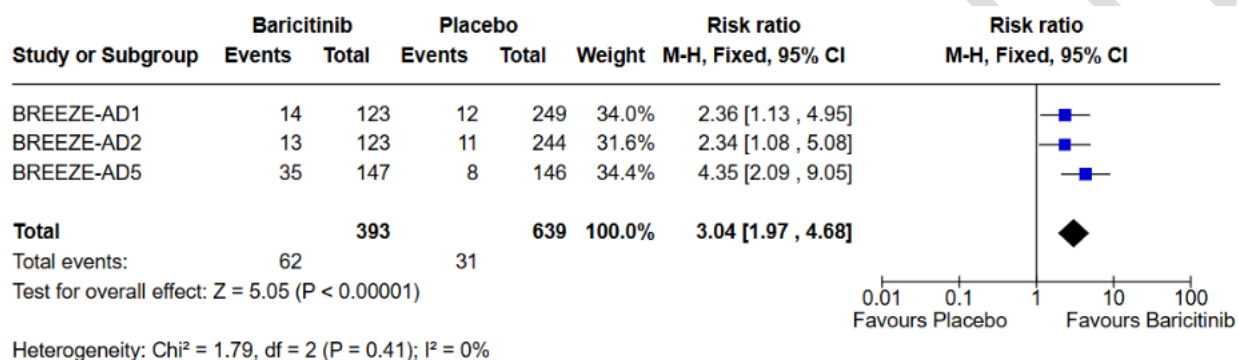
Serious Adverse Events follow-up: 16 weeks CRITICAL	28 per 1,000	14 per 1,000 (5 to 37)	RR 0.50 (0.19 to 1.31)	1030 (3 RCTs)	⊕⊕⊕⊕ High
Flares assessed with: patients requiring rescue therapy follow-up: 16 weeks CRITICAL	702 per 1,000	519 per 1,000 (463 to 575)	RR 0.74 (0.66 to 0.82)	1032 (3 RCTs)	⊕⊕⊕⊕ High
Quality of life Assessed with: DLQI, mean change from baseline follow-up: 16 weeks CRITICAL		MD 3.03 lower (4.14 lower to 1.92 lower)	-	508 (3 RCTs)	⊕⊕⊕○ Moderate ^e
EASI90 follow-up: 16 weeks INFORMATIVE	36 per 1,000	132 per 1,000 (80 to 217)	RR 3.67 (2.23 to 6.03)	1032 (3 RCTs)	⊕⊕⊕○ Moderate ^c
Treatment-emergent Adverse Events follow-up: 16 weeks INFORMATIVE	538 per 1,000	560 per 1,000 (501 to 630)	RR 1.04 (0.93 to 1.17)	1030 (3 RCTs)	⊕⊕⊕⊕ High
Serious Infections follow-up: 16 weeks INFORMATIVE	7 per 1,000	7 per 1,000 (0 to 109)	RR 1.01 (0.06 to 15.94)	291 (1 RCT) ¹	⊕⊕⊕○ Moderate ^f
Herpes Simplex follow-up: 16 weeks INFORMATIVE	23 per 1,000	38 per 1,000 (18 to 79)	RR 1.61 (0.77 to 3.36)	1030 (3 RCTs)	⊕⊕⊕⊕ High
Upper respiratory tract infection follow-up: 16 weeks INFORMATIVE	31 per 1,000	42 per 1,000 (23 to 77)	RR 1.33 (0.72 to 2.47)	1030 (3 RCTs)	⊕⊕⊕⊕ High
Conjunctivitis follow-up: 16 weeks INFORMATIVE	12 per 1,000	16 per 1,000 (5 to 57)	RR 1.34 (0.38 to 4.71)	739 (2 RCTs) ²	⊕⊕⊕⊕ High

*The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **MD**: mean difference; **RR**: risk ratio

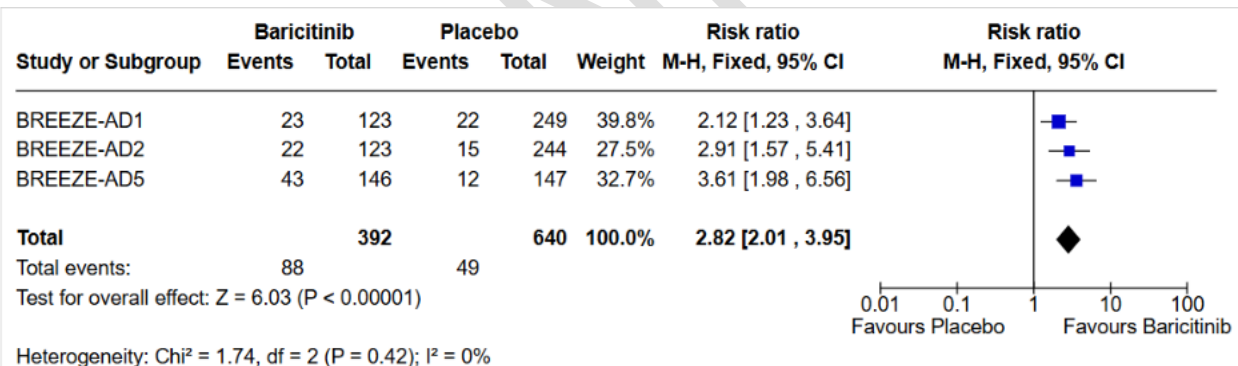
Explanations

- CI consistent with no meaningful difference and benefit (based on MID of 12%)
- CI consistent with no meaningful difference and benefit (based on MID of 15%)
- CI consistent with no meaningful difference and benefit (based on MID of 10%)
- CI consistent with no meaningful difference and benefit (based on MID of 3.4 points)
- CI consistent with no meaningful difference and benefit (based on MID of 3.3 points)
- Low event rate in moderate sample leading to wide CI consistent with no meaningful difference and harm (based on MID of 2%)

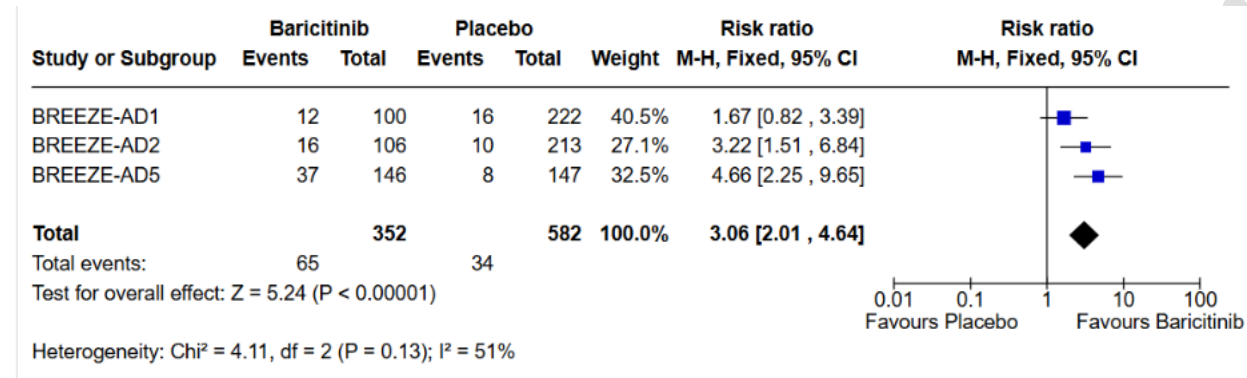
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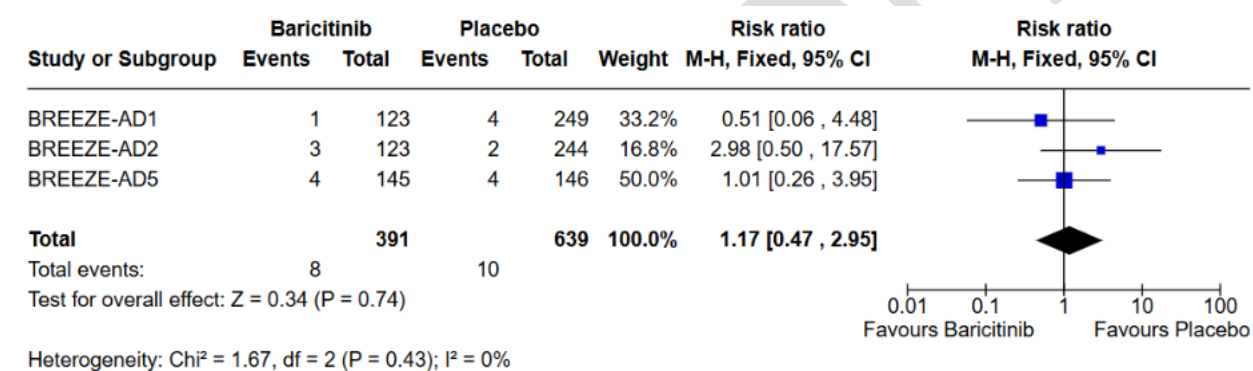
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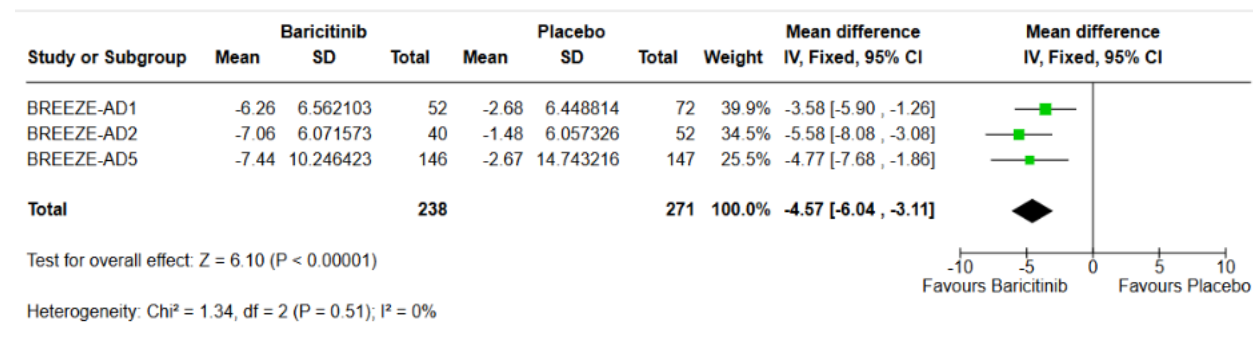
Analysis. Pruritus improvement



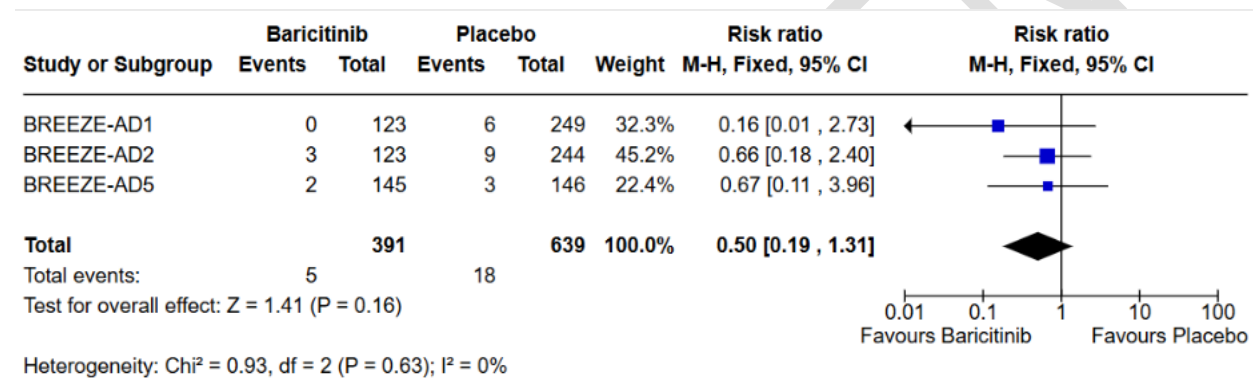
Analysis. Discontinuation due to adverse events



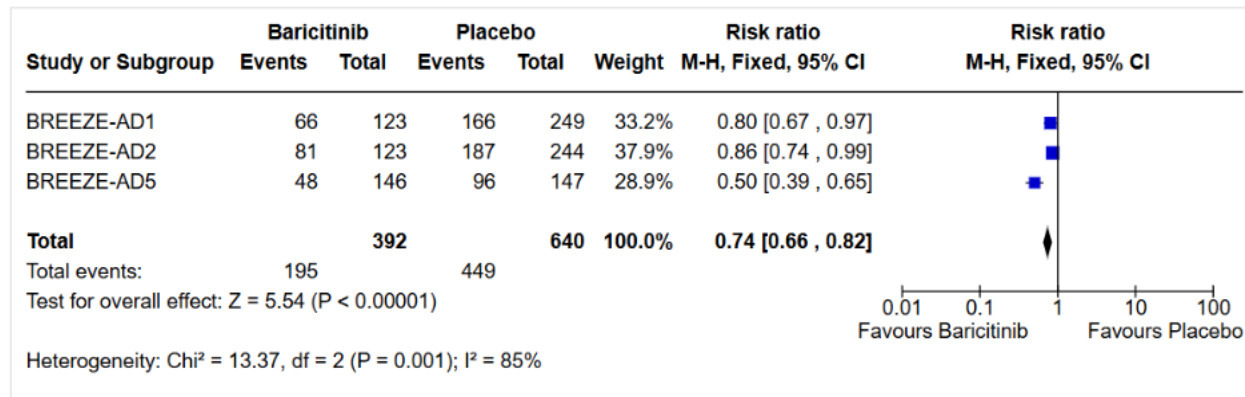
Analysis. POEM



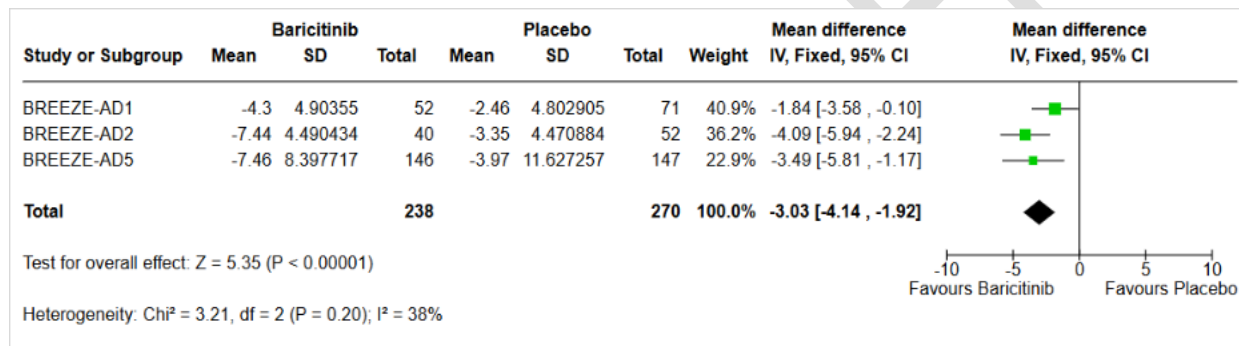
Analysis. Serious adverse events



Analysis. Flare Prevention



Analysis. Quality of life



References

1. Simpson EL, Forman S, Silverberg JI, Zirwas M, Maverakis E, Han G et al. Baricitinib in patients with moderate-to-severe atopic dermatitis: Results from a randomized monotherapy phase 3 trial in the United States and Canada (BREEZE-AD5). J Am Acad Dermatol 2021;85:62-70.

2. Simpson EL, Lacour JP, Spelman L, Galimberti R, Eichenfield LF, Bissonnette R et al. Baricitinib in patients with moderate-to-severe atopic dermatitis and inadequate response to topical corticosteroids: results from two randomized monotherapy phase III trials. Br J Dermatol 2020;183:242-55.

e-Table 22. Baricitinib Monotherapy (4 mg) GRADE Summary of Findings (Short-term)

Baricitinib 4mg monotherapy daily for 16 weeks compared to Placebo

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis

Intervention: Baricitinib 4mg monotherapy daily for 16 weeks

Comparison: Placebo

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo	Risk with Baricitinib 4mg monotherapy daily for 16 weeks				
IGA (0,1) follow-up: 16 weeks CRITICAL	47 per 1,000	153 per 1,000 (93 to 251)	RR 3.28 (2.00 to 5.39)	741 (2 RCTs) ¹	⊕⊕⊕○ Moderate ^a	
EASI75 follow-up: 16 weeks CRITICAL	75 per 1,000	230 per 1,000 (157 to 338)	RR 3.06 (2.09 to 4.50)	741 (2 RCTs)	⊕⊕⊕○ Moderate ^b	
Pruritus improvement Assessed with: PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 16 weeks CRITICAL	60 per 1,000	204 per 1,000 (129 to 322)	RR 3.41 (2.16 to 5.39)	647 (2 RCTs)	⊕⊕⊕○ Moderate ^c	
Discontinuation due to Adverse Event follow-up: 16 weeks	12 per 1,000	12 per 1,000 (3 to 48)	RR 0.99 (0.25 to 3.95)	741 (2 RCTs)	⊕⊕⊕⊕ High	

CRITICAL					
POEM Assessed with: POEM, mean change from baseline follow-up: 16 weeks CRITICAL	The mean POEM, mean change from baseline was 0	MD 5.58 lower (7.18 lower to 3.97 lower)	-	242 (2 RCTs)	⊕⊕⊕⊕ High
Serious Adverse Events follow-up: 16 weeks CRITICAL	30 per 1,000	12 per 1,000 (4 to 41)	RR 0.40 (0.12 to 1.36)	741 (2 RCTs)	⊕⊕⊕⊕ High
Flares assessed with: patients requiring rescue therapy follow-up: 16 weeks CRITICAL	716 per 1,000	494 per 1,000 (430 to 566)	RR 0.69 (0.60 to 0.79)	741 (2 RCTs)	⊕⊕⊕⊕ High
Quality of life Assessed with: DLQI, mean change from baseline follow-up: 16 weeks CRITICAL	The mean DLQI, mean change from baseline was 0	MD 4.26 lower (5.46 lower to 3.06 lower)	-	241 (2 RCTs)	⊕⊕⊕○ Moderate ^d
EASI90 follow-up: 16 weeks INFORMATIVE	37 per 1,000	145 per 1,000 (84 to 250)	RR 3.98 (2.31 to 6.85)	741 (2 RCTs)	⊕⊕⊕○ Moderate ^c
Treatment-emergent Adverse Events follow-up: 16 weeks INFORMATIVE	552 per 1,000	563 per 1,000 (491 to 640)	RR 1.02 (0.89 to 1.16)	741 (2 RCTs)	⊕⊕⊕⊕ High
Herpes Simplex follow-up: 16 weeks INFORMATIVE	28 per 1,000	57 per 1,000 (27 to 117)	RR 1.99 (0.96 to 4.11)	741 (2 RCTs)	⊕⊕⊕⊕ High
Upper respiratory tract infection follow-up: 16 weeks INFORMATIVE	22 per 1,000	32 per 1,000 (13 to 79)	RR 1.45 (0.59 to 3.55)	741 (2 RCTs)	⊕⊕⊕⊕ High

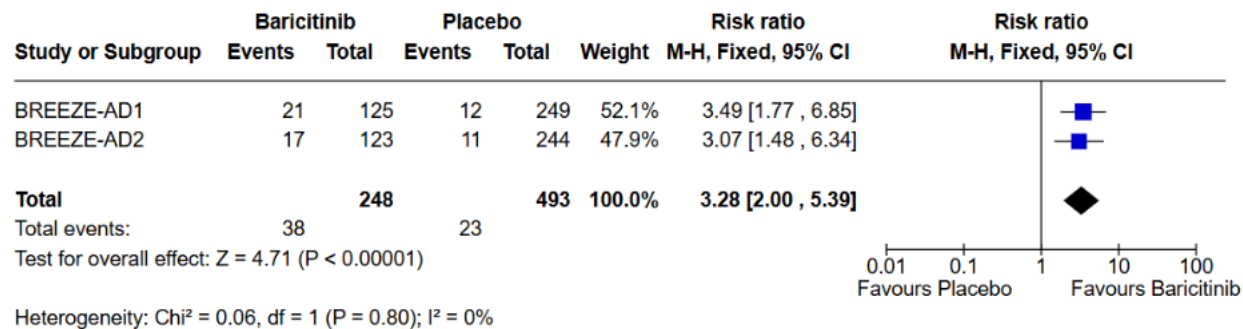
Conjunctivitis follow-up: 16 weeks INFORMATIVE	12 per 1,000	6 per 1,000 (1 to 33)	RR 0.46 (0.08 to 2.69)	741 (2 RCTs)	⊕⊕⊕⊕ High
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***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **MD**: mean difference; **RR**: risk ratio

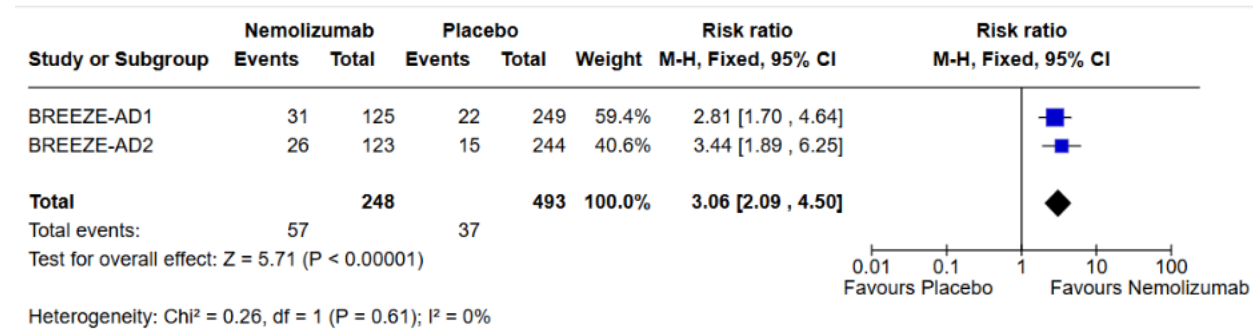
Explanations

- a. CI consistent with no meaningful difference and benefit (based on MID of 12%)
- b. CI consistent with no meaningful difference and benefit (based on MID of 15%)
- c. CI consistent with no meaningful difference and benefit (based on MID of 10%)
- d. CI consistent with no meaningful difference and benefit (based on MID of 3.3 points)

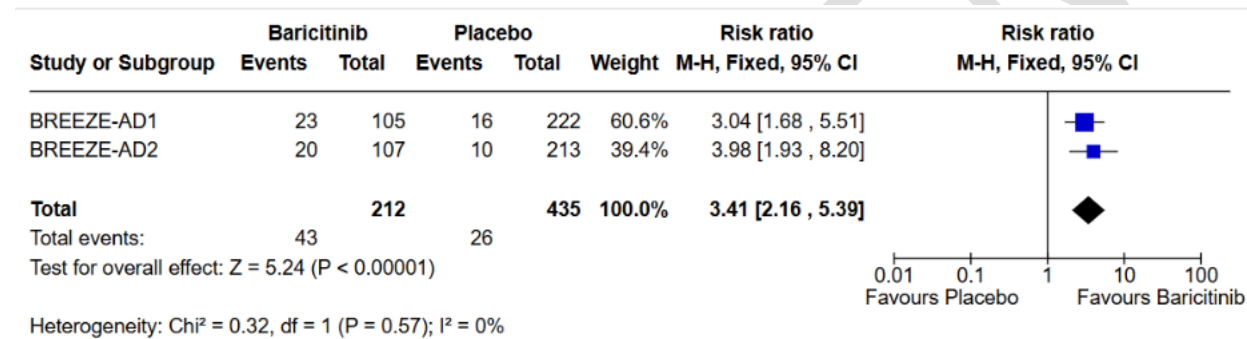
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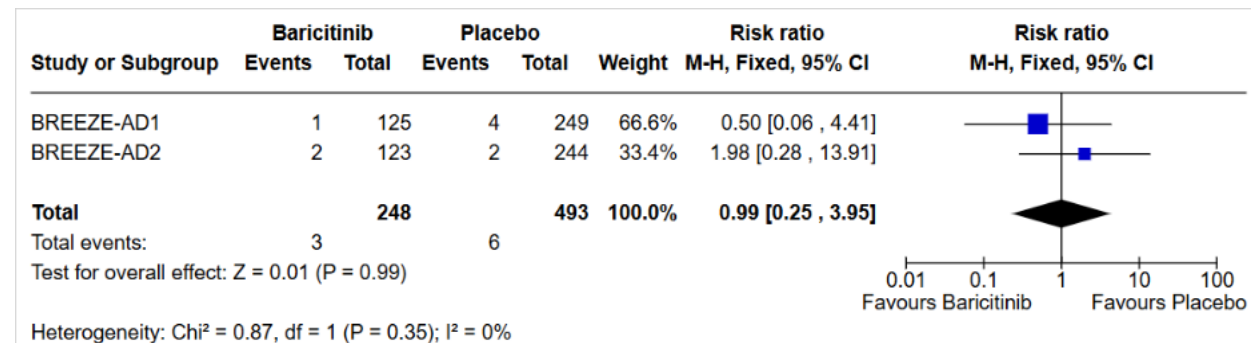
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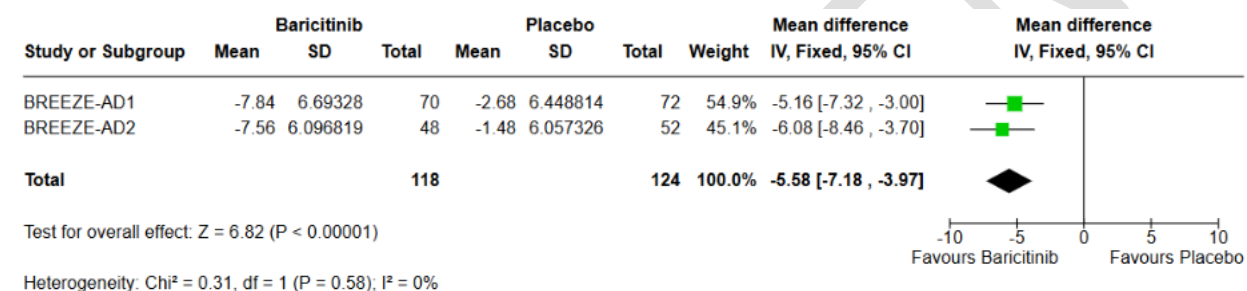
Analysis. Pruritus improvement



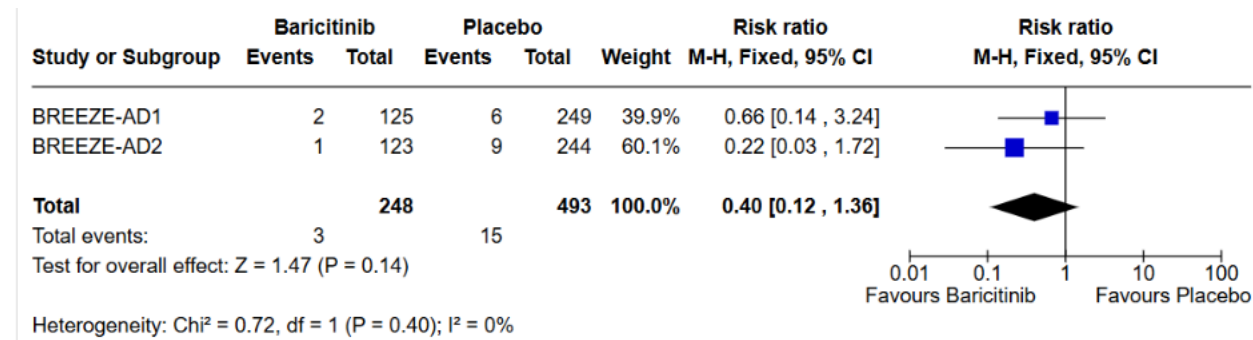
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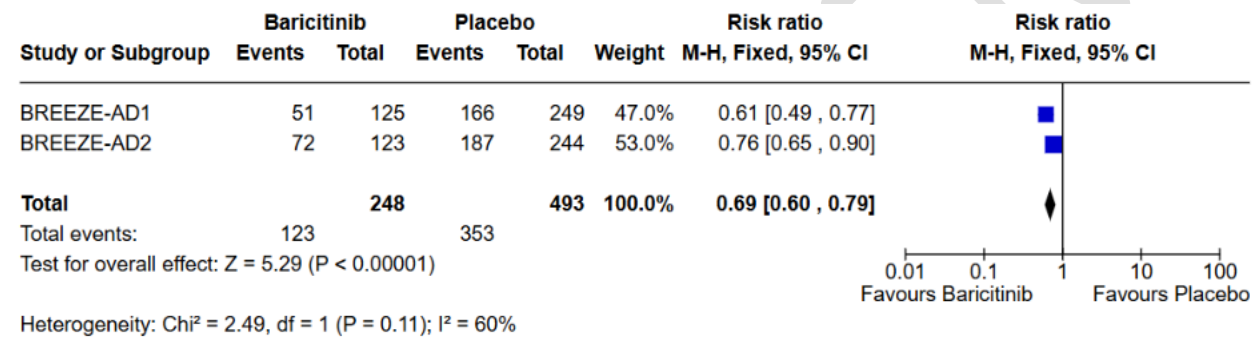
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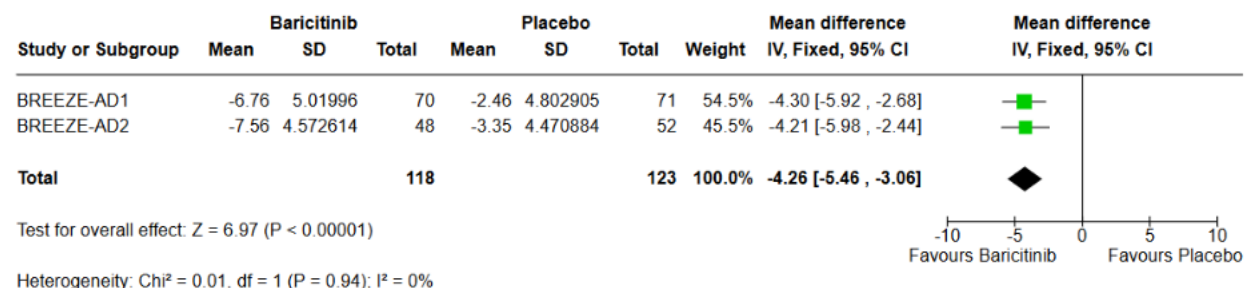
Analysis. Serious adverse events



Analysis. Flare Prevention



Analysis. Quality of life



References

1. Simpson EL, Lacour JP, Spelman L, Galimberti R, Eichenfield LF, Bissonnette R et al. Baricitinib in patients with moderate-to-severe atopic dermatitis and inadequate response to topical corticosteroids: results from two randomized monotherapy phase III trials. *Br J Dermatol* 2020;183:242-55.

e-Table 23. Baricitinib Combination Therapy (2 mg) GRADE Summary of Findings (Short-term)

Baricitinib 2mg daily + TCS for 16 weeks compared to Placebo + TCS

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis

Intervention: Baricitinib 2mg daily + TCS for 16 weeks

Comparison: Placebo + TCS

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo + TCS	Risk with Baricitinib 2mg				

		daily + TCS for 16 weeks			
IGA (0,1) follow-up: 16 weeks CRITICAL	116 per 1,000	198 per 1,000 (132 to 298)	RR 1.71 (1.14 to 2.58)	582 (3 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^a
EASI75 follow-up: 16 weeks CRITICAL	203 per 1,000	347 per 1,000 (258 to 463)	RR 1.71 (1.27 to 2.28)	582 (3 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^b
Pruritus improvement Assessed with: PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 16 weeks CRITICAL	142 per 1,000	306 per 1,000 (205 to 456)	RR 2.15 (1.44 to 3.21)	479 (2 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^c
Discontinuation due to Adverse Event follow-up: 16 weeks CRITICAL	36 per 1,000	10 per 1,000 (2 to 60)	RR 0.29 (0.05 to 1.67)	313 (2 RCTs) ^{2,3}	⊕⊕⊕⊕ High
POEM Assessed with: POEM, mean change from baseline follow-up: 16 weeks CRITICAL	The mean POEM, mean change from baseline was 0	MD 2.99 lower (4.48 lower to 1.5 lower)	-	466 (2 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^d
Serious Adverse Events follow-up: 16 weeks CRITICAL	25 per 1,000	13 per 1,000 (2 to 68)	RR 0.50 (0.09 to 2.65)	303 (2 RCTs) ^{2,3}	⊕⊕○○ Low ^e
Flares assessed with: patients requiring rescue therapy follow-up: 16 weeks CRITICAL	92 per 1,000	46 per 1,000 (17 to 129)	RR 0.50 (0.18 to 1.41)	218 (1 RCT) ³	⊕⊕⊕⊕ High
Quality of life		MD 1.77 lower (2.98 lower to 0.56 lower)	-	496 (2 RCTs) ^{1,3}	⊕⊕⊕⊕ High

Assessed with: DLQI, mean change from baseline follow-up: 16 weeks CRITICAL					
EASI90 follow-up: 16 weeks INFORMATIVE	96 per 1,000	144 per 1,000 (90 to 232)	RR 1.51 (0.94 to 2.43)	582 (3 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^c
Upper Respiratory Tract Infection follow-up: 16 weeks INFORMATIVE	19 per 1,000	49 per 1,000 (14 to 174)	RR 2.58 (0.73 to 9.09)	303 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^f
Conjunctivitis follow-up: 16 weeks INFORMATIVE	20 per 1,000	9 per 1,000 (0 to 214)	RR 0.44 (0.02 to 10.47)	86 (1 RCT) ²	⊕⊕○○ Low ^{f,g}
Herpes Simplex follow-up: 16 weeks INFORMATIVE	19 per 1,000	6 per 1,000 (1 to 60)	RR 0.33 (0.03 to 3.13)	303 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^h
Treatment-emergent Adverse Events follow-up: 16 weeks INFORMATIVE	512 per 1,000	666 per 1,000 (574 to 769)	RR 1.30 (1.12 to 1.50)	495 (2 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^f
Serious Infections follow-up: 16 weeks INFORMATIVE	20 per 1,000	15 per 1,000 (4 to 56)	RR 0.74 (0.20 to 2.79)	495 (2 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^e

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **MD**: mean difference; **RR**: risk ratio

Explanations

- a. CI consistent with no meaningful difference and benefit (based on MID of 12%)
- b. CI consistent with no meaningful difference and benefit (based on MID of 15%)
- c. CI consistent with no meaningful difference and benefit (based on MID of 10%)
- d. CI consistent with no meaningful difference and benefit (based on MID of 3.4 points)
- e. CI consistent with benefit and harm (based on MID of 2%)
- f. CI consistent with no meaningful difference and harm (based on MID of 10%)
- g. Low event rate in a very small sample.
- h. Small sample is concerning for precision.

References

1. Bieber T, Reich K, Paul C, Tsunemi Y, Augustin M, Lacour JP et al. Efficacy and safety of baricitinib in combination with topical corticosteroids in patients with moderate-to-severe atopic dermatitis with inadequate response, intolerance or contraindication to ciclosporin: results from a randomized, placebo-controlled, phase III clinical trial (BREEZE-AD4). Br J Dermatol 2022;187:338-52.
2. Guttman-Yassky E, Silverberg JI, Nemoto O, Forman SB, Wilke A, Prescilla R et al. Baricitinib in adult patients with moderate-to-severe atopic dermatitis: A phase 2 parallel, double-blinded, randomized placebo-controlled multiple-dose study. Journal of the American Academy of Dermatology 2019;80:913-21.e9.
3. Reich K, Kabashima K, Peris K, Silverberg JI, Eichenfield LF, Bieber T et al. Efficacy and Safety of Baricitinib Combined With Topical Corticosteroids for Treatment of Moderate to Severe Atopic Dermatitis: A Randomized Clinical Trial. JAMA Dermatol 2020;156:1333-43.

e-Table 24. Baricitinib Combination Therapy (4 mg) GRADE Summary of Findings (Short-term)

Baricitinib 4mg daily + TCS for 16 weeks compared to Placebo + TCS

Patient or population: Adolescents and adults aged 12+ with moderate to severe atopic dermatitis

Intervention: Baricitinib 4mg daily + TCS for 16 weeks

Comparison: Placebo + TCS

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	Nº of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Placebo + TCS	Risk with Baricitinib 4mg daily + TCS for 16 weeks				
IGA (0,1) follow-up: 16 weeks CRITICAL	116 per 1,000	254 per 1,000 (170 to 379)	RR 2.20 (1.47 to 3.28)	49201 (3 RCTs) ¹⁻³	⊕⊕⊕○ Moderate ^a	

EASI75 follow-up: 16 weeks CRITICAL	203 per 1,000	392 per 1,000 (293 to 524)	RR 1.93 (1.44 to 2.58)	492 (3 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^b
Pruritus improvement Assessed with: PP-NRS, ≥4-point improvement from baseline in PP-NRS score follow-up: 16 weeks CRITICAL	142 per 1,000	382 per 1,000 (260 to 561)	RR 2.69 (1.83 to 3.95)	389 (2 RCTs) ^{1,3}	⊕⊕⊕⊕ High
Discontinuation due to Adverse Event follow-up: 16 weeks CRITICAL	36 per 1,000	73 per 1,000 (27 to 195)	RR 2.02 (0.75 to 5.42)	316 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^c
POEM Assessed with: POEM, mean change from baseline follow-up: 16 weeks CRITICAL	The mean POEM, mean change from baseline was 0	MD 5.19 lower (6.47 lower to 3.91 lower)	-	373 (2 RCTs) ^{1,3}	⊕⊕⊕⊕ High
Serious Adverse Events follow-up: 16 weeks CRITICAL	25 per 1,000	32 per 1,000 (9 to 107)	RR 1.25 (0.37 to 4.20)	306 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^d
Flares Assessed with: proportion of patients with AD flares assessed with: patients requiring rescue medication follow-up: 16 weeks CRITICAL	92 per 1,000	54 per 1,000 (20 to 144)	RR 0.59 (0.22 to 1.57)	220 (1 RCT) ³	⊕⊕⊕⊕ High
Quality of life Assessed with: DLQI, mean change from baseline follow-up: 16 weeks CRITICAL	The mean DLQI, mean change from baseline was 0	MD 3.18 lower (4.46 lower to 1.89 lower)	-	405 (2 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^e

EASI90 follow-up: 16 weeks INFORMATIVE	96 per 1,000	197 per 1,000 (125 to 310)	RR 2.06 (1.31 to 3.24)	492 (3 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^f
Upper Respiratory Tract Infection follow-up: 16 weeks INFORMATIVE	19 per 1,000	34 per 1,000 (8 to 140)	RR 1.80 (0.44 to 7.31)	306 (2 RCTs) ^{2,3}	⊕⊕⊕○ Moderate ^c
Conjunctivitis follow-up: 16 weeks INFORMATIVE	20 per 1,000	9 per 1,000 (0 to 208)	RR 0.43 (0.02 to 10.21)	87 (1 RCT) ²	⊕⊕○○ Low ^{c,g}
Herpes Simplex follow-up: 16 weeks INFORMATIVE	19 per 1,000	25 per 1,000 (6 to 99)	RR 1.33 (0.34 to 5.20)	306 (2 RCTs) ^{2,3}	⊕⊕⊕⊕ High
Treatment-emergent Adverse Events follow-up: 16 weeks INFORMATIVE	512 per 1,000	723 per 1,000 (620 to 840)	RR 1.41 (1.21 to 1.64)	404 (2 RCTs) ^{1,3}	⊕⊕⊕⊕ High
Serious Infections follow-up: 16 weeks INFORMATIVE	20 per 1,000	20 per 1,000 (6 to 72)	RR 1.00 (0.28 to 3.61)	404 (2 RCTs) ^{1,3}	⊕⊕⊕○ Moderate ^d

***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **CI**: confidence interval; **MD**: mean difference; **RR**: risk ratio

Explanations

- a. CI consistent with no meaningful difference and benefit (based on MID of 12%)
- b. CI consistent with no meaningful difference and benefit (based on MID of 15%)
- c. CI consistent with no meaningful difference and harm (based on MID of 10%)
- d. CI consistent with no meaningful difference and harm (based on MID of 2%)
- e. CI consistent with no meaningful difference and benefit (based on MID of 3.3 points)
- f. CI consistent with no meaningful difference and benefit (based on MID of 10%)
- g. Very small sample is concerning for precision.

References

1. Bieber T, Reich K, Paul C, Tsunemi Y, Augustin M, Lacour JP et al. Efficacy and safety of baricitinib in combination with topical corticosteroids in patients with moderate-to-severe atopic dermatitis with inadequate response, intolerance or contraindication to ciclosporin: results from a randomized, placebo-controlled, phase III clinical trial (BREEZE-AD4). *Br J Dermatol* 2022;187:338-52.
2. Guttman-Yassky E, Silverberg JI, Nemoto O, Forman SB, Wilke A, Prescilla R et al. Baricitinib in adult patients with moderate-to-severe atopic dermatitis: A phase 2 parallel, double-blinded, randomized placebo-controlled multiple-dose study. *Journal of the American Academy of Dermatology* 2019;80:913-21.e9.
3. Reich K, Kabashima K, Peris K, Silverberg JI, Eichenfield LF, Bieber T et al. Efficacy and Safety of Baricitinib Combined With Topical Corticosteroids for Treatment of Moderate to Severe Atopic Dermatitis: A Randomized Clinical Trial. *JAMA Dermatol* 2020;156:1333-43.