

Abrocitinib Induction, Randomized Withdrawal, and Response Recapture With Rescue Therapy in Patients With Moderate-to-Severe Atopic Dermatitis: Results From the JADE REGIMEN Phase 3 Trial

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Disclosures

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Background, Objective, and Methodology

Background: The chronic, relapsing-remitting nature of moderate-to-severe atopic dermatitis (AD) and population heterogeneity necessitates dosing flexibility. Abrocitinib is an oral Janus kinase 1 (JAK1) selective inhibitor under investigation for the treatment of moderate-to-severe AD

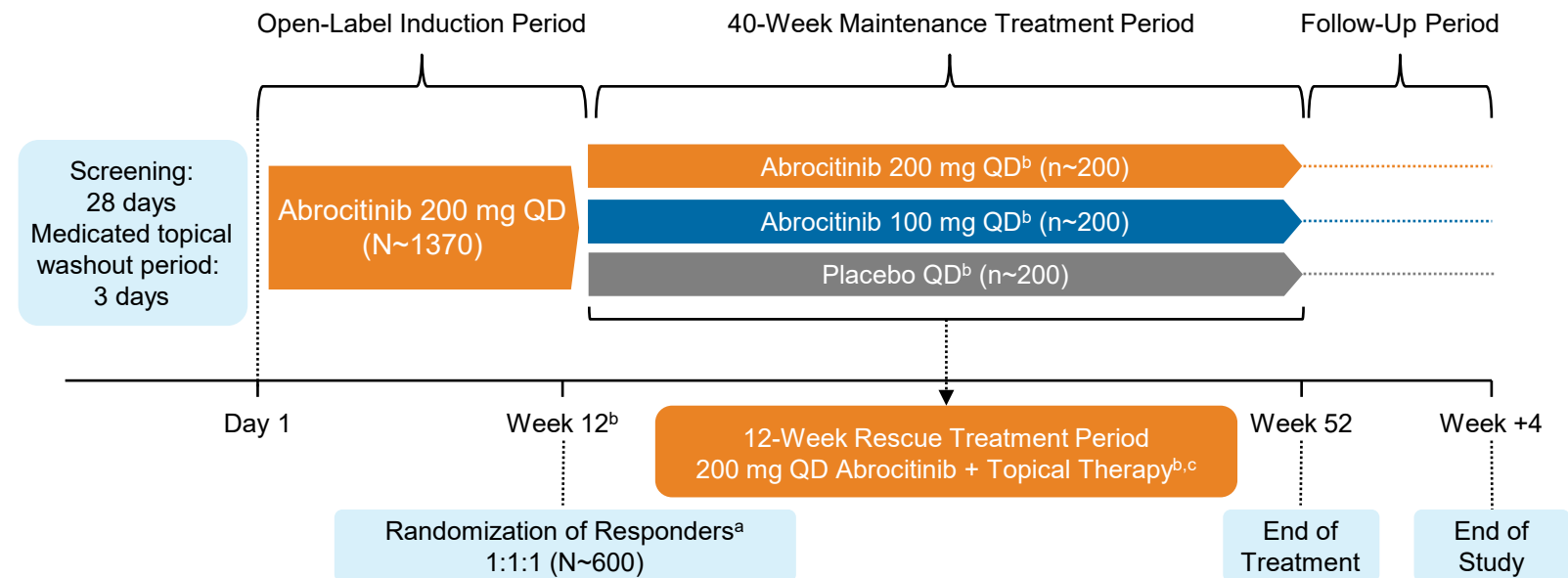
Objective: To evaluate response to treatment modification/interruption/reinitiation

Study Design

Phase 3 multicenter, responder-enriched, double-blinded, placebo-controlled, randomized withdrawal study with rescue treatment in patients with protocol-defined flare (JADE REGIMEN, NCT03627767)

Eligibility Criteria

- Adolescent and adult patients (≥12 years of age) with AD for ≥1 year
- Moderate-to-severe AD (IGA ≥3; EASI ≥16; %BSA ≥10; PP-NRS ≥4)
- Inadequate response or intolerance to topical medication or need for systemic therapy to control AD



Primary Endpoint

Loss of response defined as ≥50% loss in initial EASI response with IGA score ≥2

Other Secondary Endpoints

- IGA 0/1
- PP-NRS4
- EASI-75

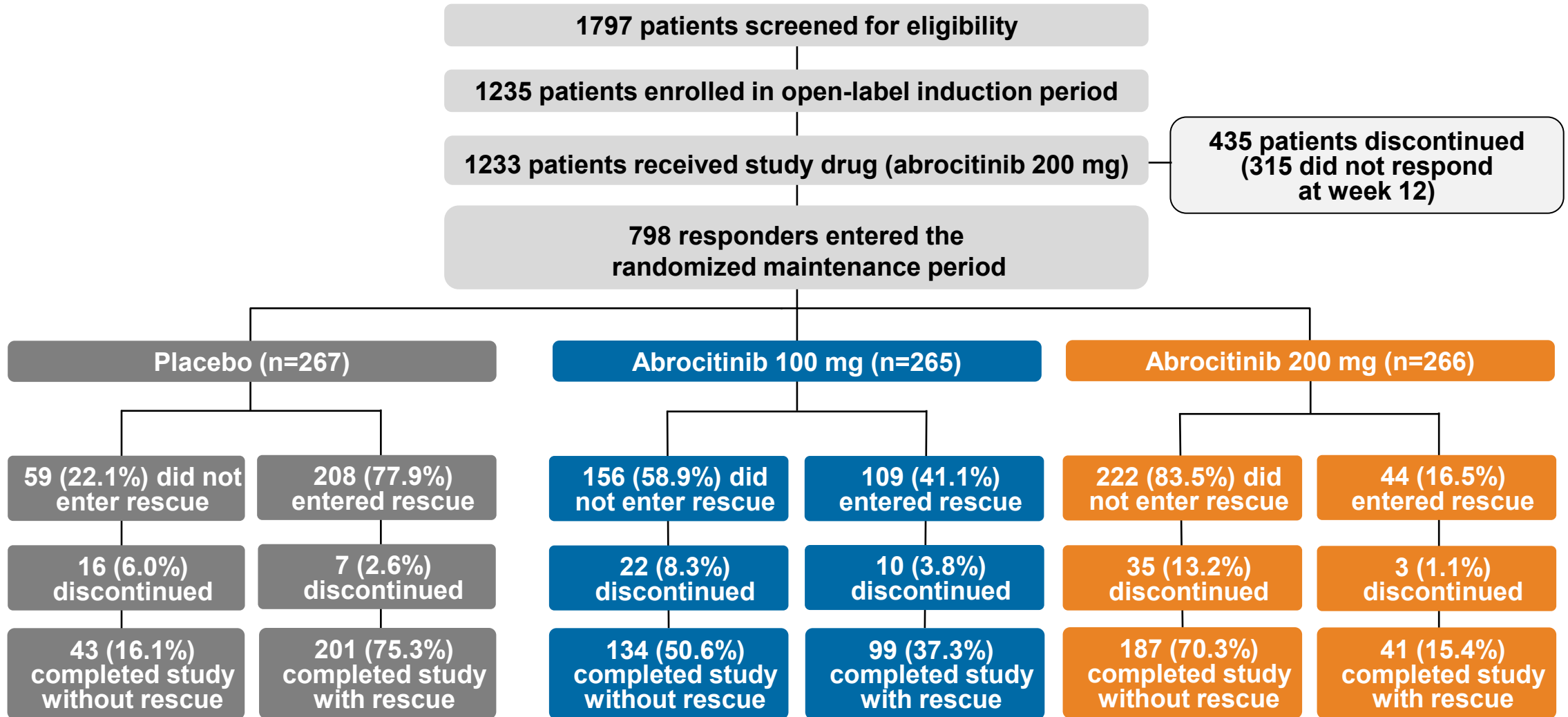
Safety

AE monitoring

Randomization Stratification

Age (<18 years or ≥18 years)

Patient Disposition



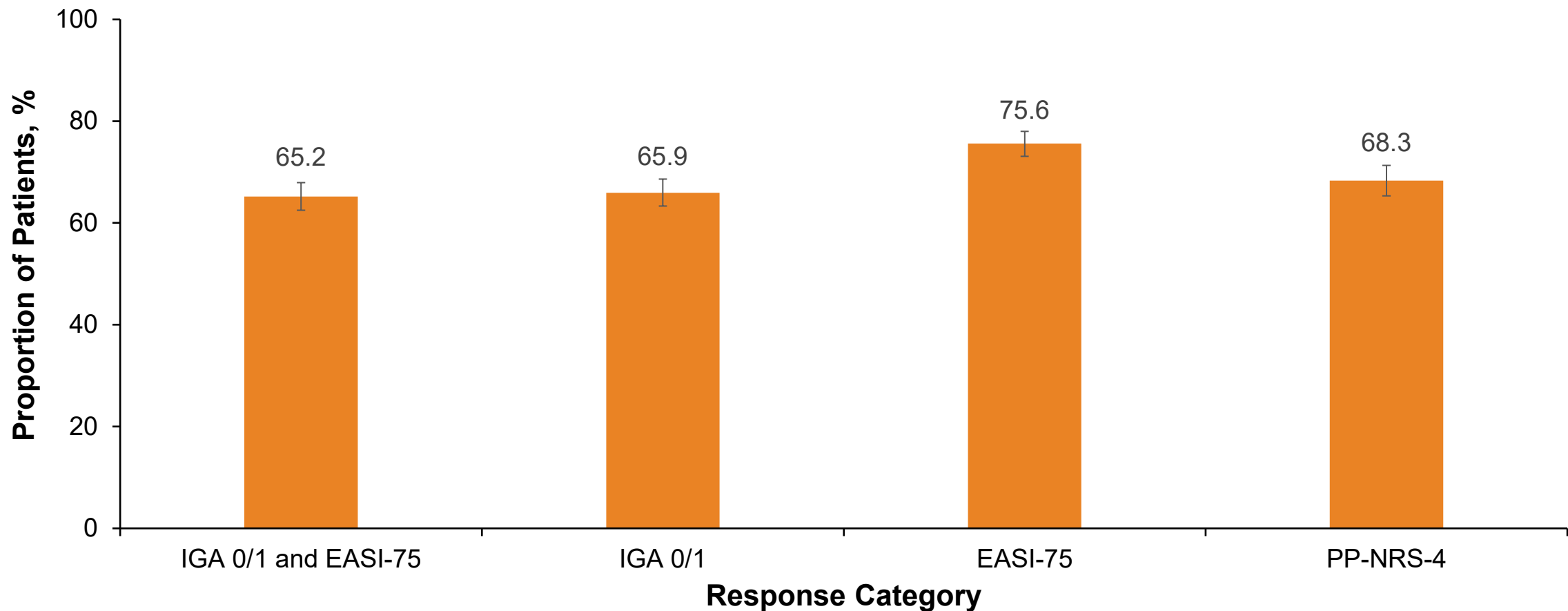
Results 1: Demographics and Baseline Disease Characteristics

		Open-Label Period		Randomized Maintenance Period		
		Total N=1233	Total N=798	Placebo n=267	Abrocitinib 100 mg n=265	Abrocitinib 200 mg n=266
Age, mean (SD), y		31.6 (14.9)	32.1 (14.8)	31.8 (14.3)	32.2 (14.9)	32.3 (15.3)
Male, n (%)		684 (55.5)	439 (55.0)	141 (52.8)	148 (55.8)	150 (56.4)
Race, n (%)	White	931 (75.5)	621 (77.8)	209 (78.3)	208 (78.5)	204 (76.7)
	Black/African American	75 (6.1)	33 (4.1)	14 (5.2)	9 (3.4)	10 (3.8)
	Asian	196 (15.9)	124 (15.5)	38 (14.2)	41 (15.5)	54 (16.9)
Disease duration, mean (SD), y		20.5 (14.6)	20.9 (14.8)	20.7 (14.9)	20.5 (14.3)	21.4 (15.1)
IGA, n (%)	Moderate (3)	729 (59.1)	508 (63.7)	177 (66.3)	161 (60.8)	170 (63.9)
	Severe (4)	504 (40.9)	290 (36.3)	90 (33.7)	104 (39.2)	96 (36.1)
EASI, mean (SD)		31.0 (12.3)	30.3 (12.1)	30.1 (12.2)	30.5 (11.9)	30.4 (12.3)
PP-NRS, mean (SD)		7.4 (1.7)	7.3 (1.7)	7.3 (1.7)	7.2 (1.5)	7.4 (1.8)
DLQI, ^a mean (SD)		16.0 (6.6)	16.0 (6.5)	15.9 (6.6)	15.6 (6.3)	16.5 (6.8)
CDLQI, ^b mean (SD)		12.3 (5.7)	12.1 (5.5)	13.4 (6.5)	12.2 (5.0)	10.7 (4.8)

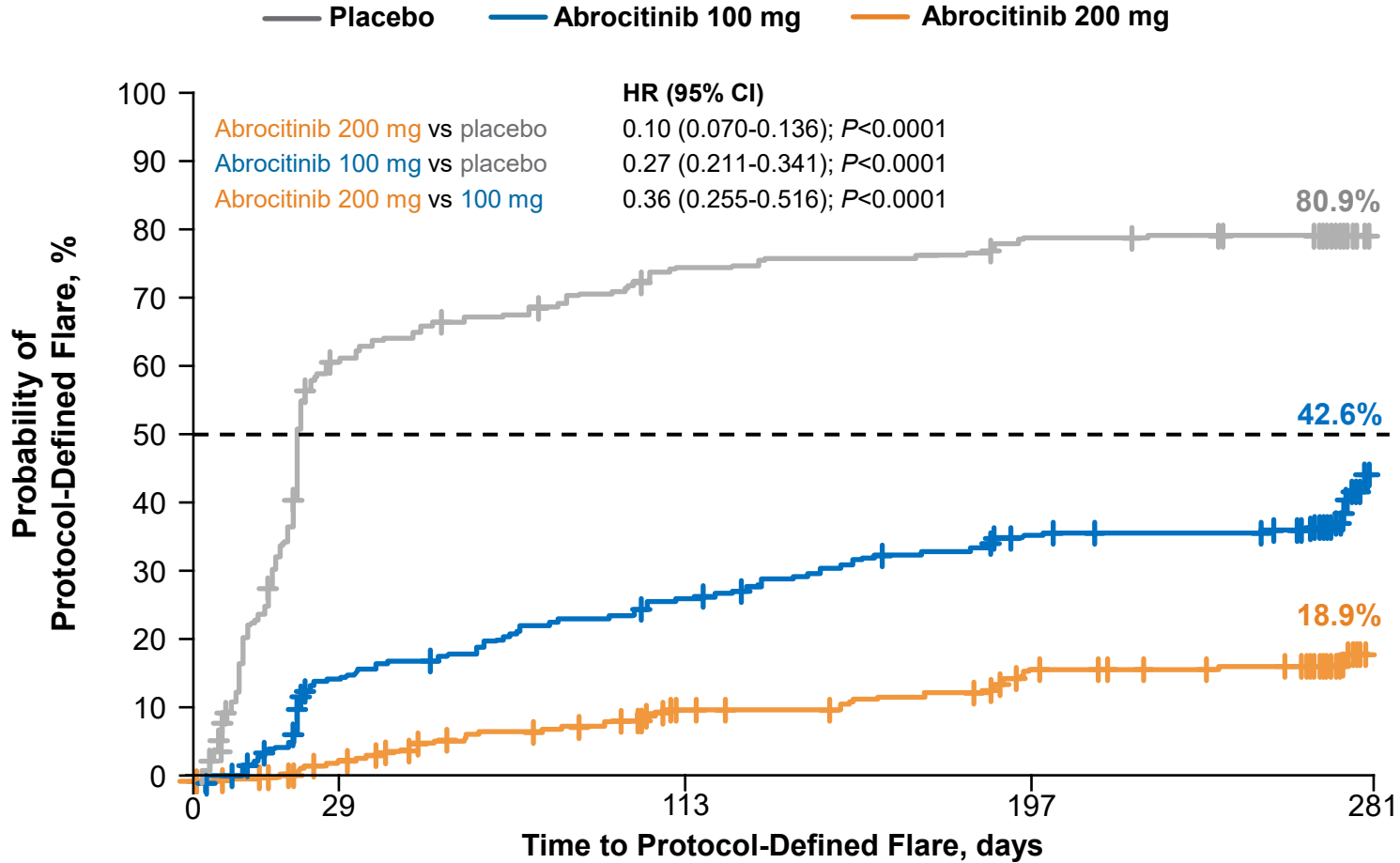
CDLQI, Children's Dermatology Life Quality Index; DLQI, Dermatology Life Quality Index.

^aFor patients aged ≥18 years; ^bFor patients aged <18 years.

Results 2: Week 12 Response to Abrocitinib 200 mg in Open-Label Induction Phase



Results 3: Time to Protocol-Defined Flare During the Randomized Maintenance Period

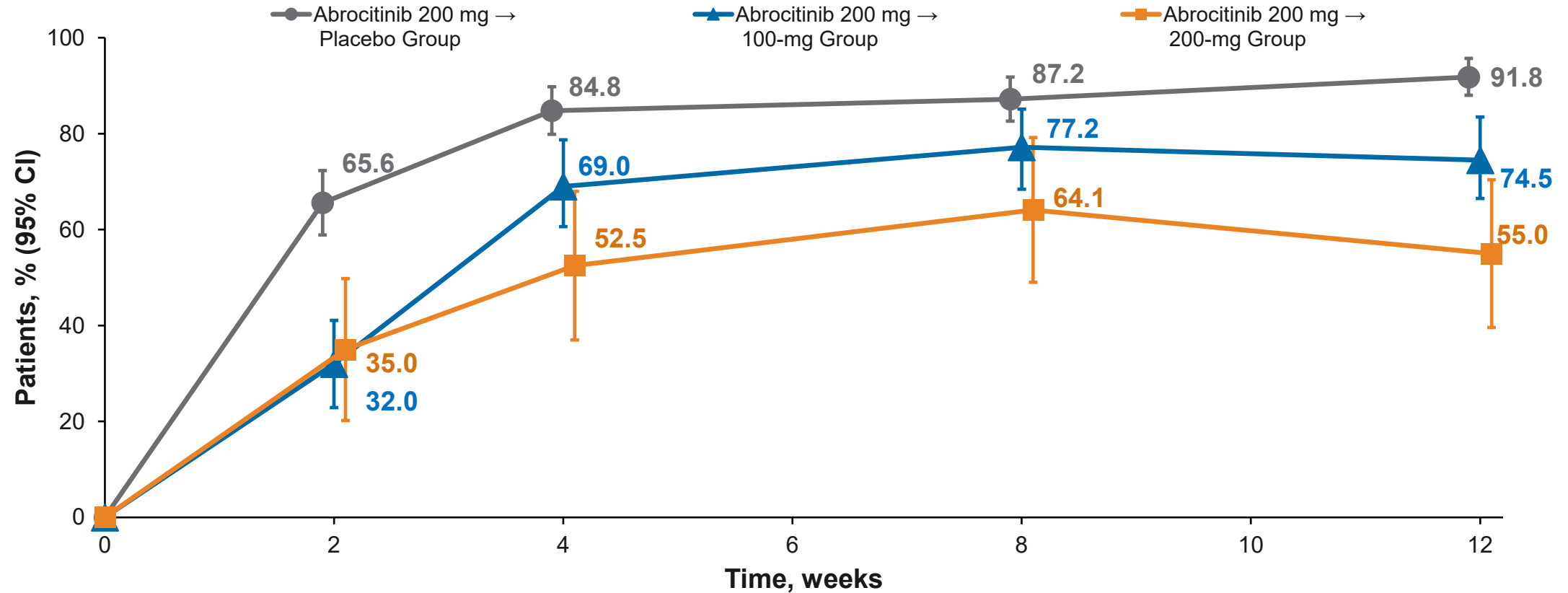


Patients at risk,^a n

Placebo	267	112	63	48	20
Abrocitinib 100 mg	265	225	179	151	58
Abrocitinib 200 mg	266	255	220	201	69

HR, hazard ratio. ^aPatients who did not have flare and were continuing treatment. Flare: $\geq 50\%$ loss of initial EASI response at week 12 with a new IGA score of ≥ 2 .

Results 4: Recovery of EASI-75 Response During the Rescue Period



Evaluable patients, n

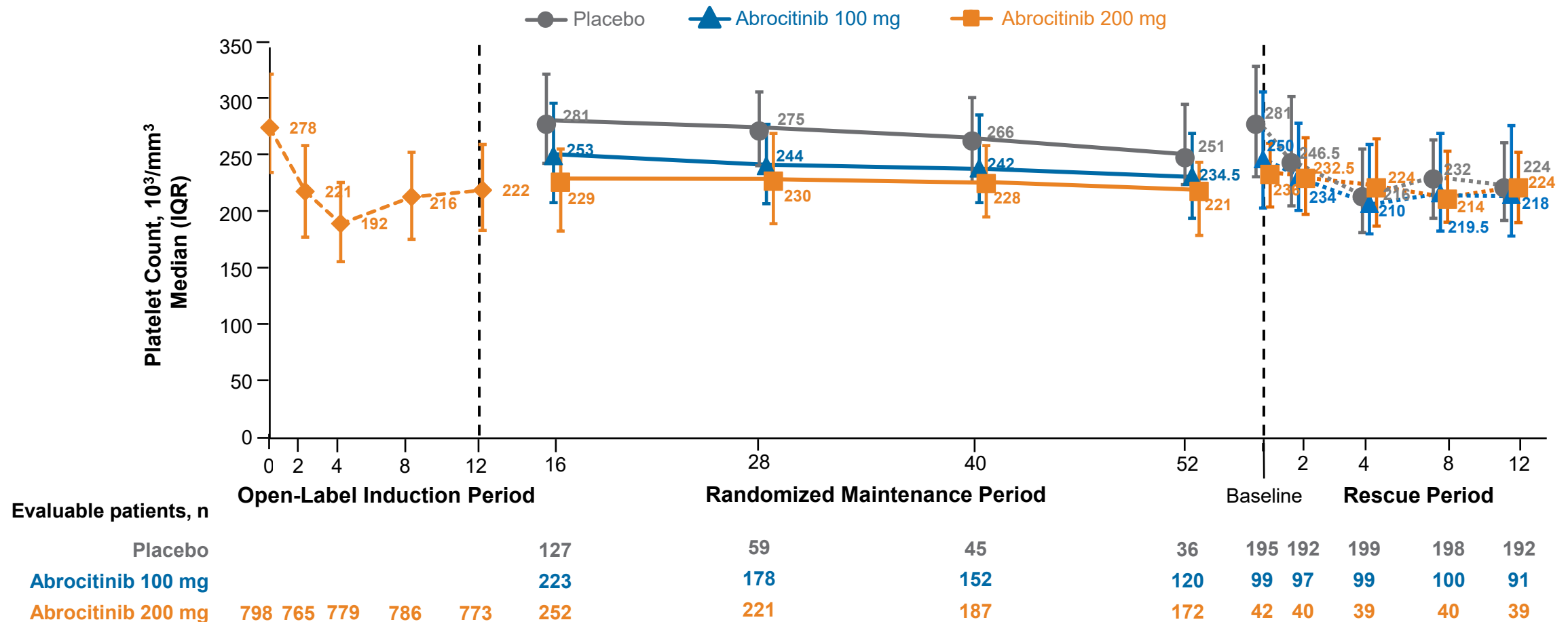
Placebo	192	198	203	196
Abrocitinib 100 mg	100	100	101	102
Abrocitinib 200 mg	40	40	39	40

Results 5: Summary of Adverse Events

IR (95% CI)	Randomized Maintenance Period		
	Placebo N=267	Abrocitinib 100 mg n=265	Abrocitinib 200 mg n=266
IRs for TEAEs occurring in ≥2% of patients (SAF-RA)	163.18 (130.70-201.29)	51.44 (39.86-65.32)	63.10 (50.87-77.38)
Serious AEs, excluding events of AD	3.18 (0.39-11.49)	2.69 (0.73-6.88)	7.77 (4.25-13.04)
Discontinuation because of AEs	6.38 (1.74-16.34)	3.36 (1.09-7.85)	8.76 (5.01-14.23)
TEAEs with IR ≥4, excluding AD			
Nausea	1.61 (0.04-8.95)	1.35 (0.16-4.87)	4.43 (1.91-8.72)
Bronchitis	4.78 (0.99-13.97)	2.03 (0.42-5.92)	0.54 (0.01-3.03)
Conjunctivitis	4.84 (1.00-14.14)	2.02 (0.42-5.91)	1.09 (0.13-3.92)
Herpes zoster	1.59 (0.04-8.84)	1.34 (0.16-4.85)	4.40 (1.90-8.67)
Nasopharyngitis	8.01 (2.60-18.70)	6.98 (3.35-12.84)	10.17 (6.03-16.07)
Upper respiratory tract infection	9.80 (3.60-21.34)	5.48 (2.37-10.80)	4.42 (1.91-8.71)
Blood creatine phosphokinase increased	1.59 (0.04-8.84)	4.08 (1.50-8.89)	7.85 (4.29-13.18)
Asthma	4.77 (0.98-13.95)	0.67 (0.02-3.74)	2.19 (0.60-5.60)
Acne	0.00 (0.00-5.85)	3.42 (1.11-7.97)	4.43 (1.91-8.73)
Pruritus	6.44 (1.76-16.49)	2.72 (0.74-6.97)	1.64 (0.34-4.78)

Results 6: Summary of Clinical Laboratory Evaluations Throughout the Study

- No clinically significant changes were observed in hemoglobin level, neutrophil count, or lymphocyte count
- Platelet counts reached a nadir at week 4 of the induction period (decrease of 35%) and returned toward baseline thereafter, followed by stabilization throughout the maintenance and rescue periods



Conclusions

- **12-week Induction With Abrocitinib 200 mg Monotherapy Was Highly Efficacious**
 - 65% of patients who received abrocitinib 200 mg achieved IGA 0/1 and EASI-75 responses
- **Most Responders Who Continued to Receive Abrocitinib During the Maintenance Period Did Not Experience Protocol-Defined Flare**
 - Most patients who continued with either the 200-mg or the 100-mg dose of abrocitinib maintained their response through 40 weeks of blinded follow-up
 - The probability of maintenance of response was higher for abrocitinib 200 mg than for 100 mg and for both abrocitinib doses compared with placebo
 - Time to flare was prolonged in the abrocitinib 200-mg and 100-mg arms compared with placebo
 - Decreasing the dose of abrocitinib improved the safety profile, indicating no carryover effect
- **Abrocitinib 200 mg in Combination With Topical Therapy Was Successful in Recapturing Response for Most Patients Who Experienced Flare**
 - 85% of patients who experienced a protocol-defined flare after discontinuation of abrocitinib treatment recaptured EASI-75 response by week 4 of rescue treatment

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