

# Efficacy of Abrocitinib Rescue Therapy in the Phase 3 Study JADE REGIMEN

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## BACKGROUND

- The long-term, relapsing-remitting nature of atopic dermatitis (AD) often requires flexibility in treatment, such as dose reduction and treatment interruption<sup>1</sup>
- The JADE REGIMEN trial (NCT03627767), which included patients with moderate-to-severe AD, was conducted to evaluate maintenance of response to the Janus kinase 1 (JAK) inhibitor abrocitinib with continuous dosing, reduced dose, or withdrawal of abrocitinib<sup>2</sup>
  - Patients who stopped responding (experienced flare) during the maintenance period received rescue treatment

## OBJECTIVE

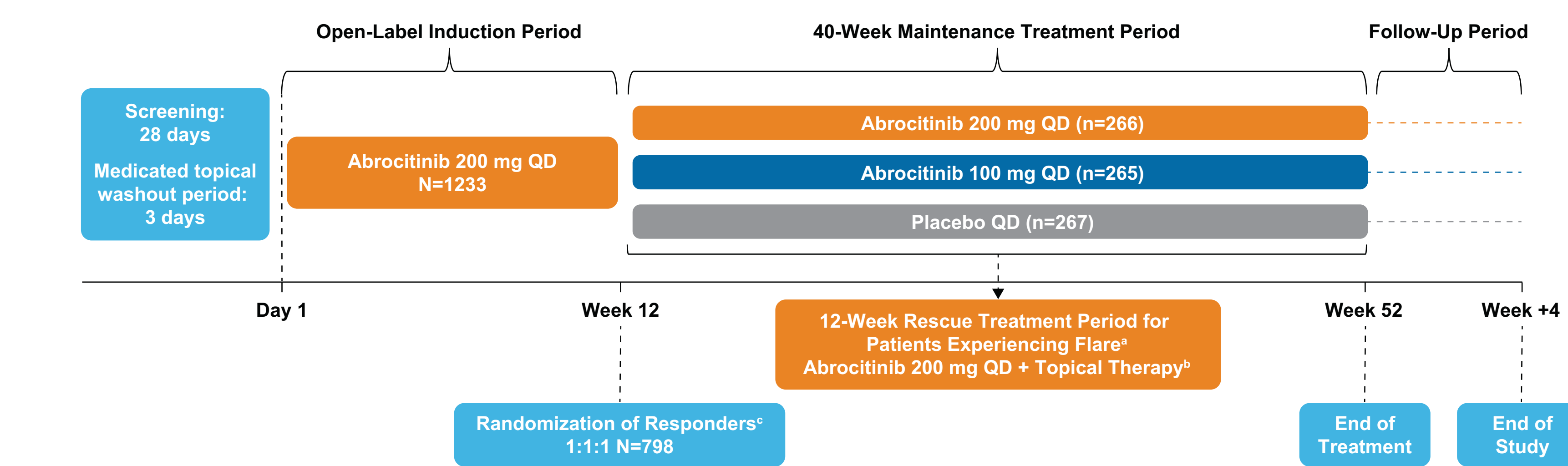
- To evaluate the efficacy and safety of rescue therapy in JADE REGIMEN

## METHODS

### Patients

- JADE REGIMEN was a multicenter, double-blind, responder-enriched, placebo-controlled, phase 3, randomized-withdrawal study (Figure 1)
  - The induction period consisted of 12 weeks of treatment with abrocitinib 200 mg by mouth once daily
  - Patients who responded to induction (achieved Investigator's Global Assessment [IGA] score of 0/1 with  $\geq 2$ -point reduction from baseline and  $\geq 75\%$  improvement in Eczema Area and Severity Index [EASI] response) were randomly assigned to dose continuation, dose reduction, or withdrawal of abrocitinib for 40 weeks (maintenance period)
  - Patients who experienced flare during the maintenance period (ie, lost  $\geq 50\%$  of week 12 EASI response and had a new IGA score  $\geq 2$ ) received rescue therapy (abrocitinib 200 mg + topical medicated treatment) for 12 weeks

Figure 1. JADE REGIMEN Study Design



QD, once daily.  
<sup>1</sup>Flare was defined as  $\geq 50\%$  loss of EASI response at randomization and IGA score  $\geq 2$ .  
<sup>2</sup>Topical therapy was permitted only during the rescue period and included topical corticosteroids, calcineurin inhibitors (tacrolimus or pimecrolimus), and phosphodiesterase 4 inhibitors (crisaborole) when required per local standard of care.  
<sup>3</sup>Responder criteria at week 12 are defined as IGA score 0/1 with  $\geq 2$ -point reduction from baseline and  $\geq 75\%$  improvement from baseline in EASI response.

### Patients

- Eligible patients were aged  $\geq 12$  years, had moderate-to-severe AD (IGA score  $\geq 3$ ; EASI score  $\geq 16$ ; percentage of body surface area [%BSA] affected  $\geq 10$ ; Peak Pruritus Numerical Rating Scale [PP-NRS]; used with permission from Regeneron Pharmaceuticals Inc. and Sanofi score  $\geq 4$ ) for  $\geq 1$  year, and had inadequate response or intolerance to topical medication or required systemic therapy to control AD

### Analysis

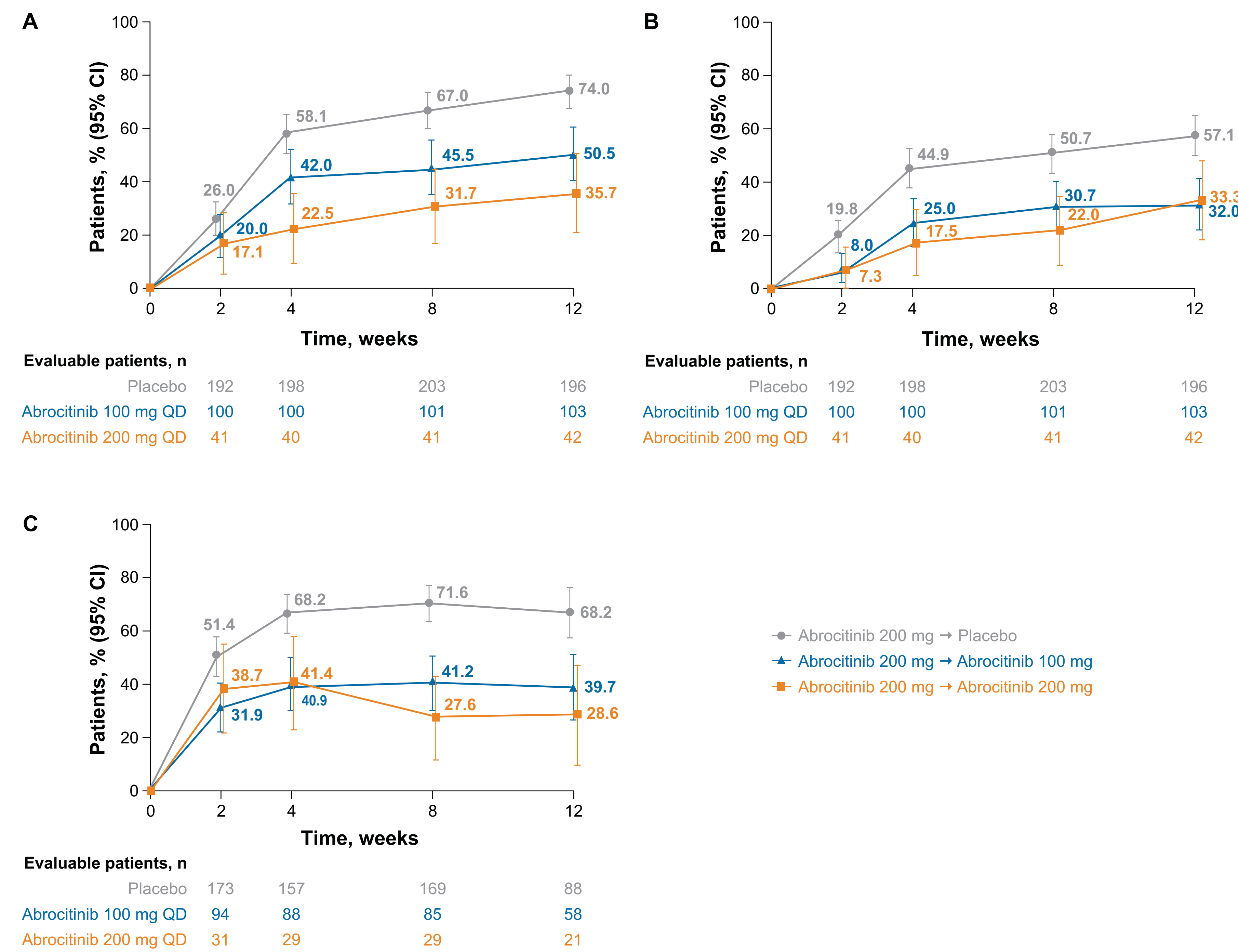
- Recaptured IGA, EASI, and PP-NRS responses, defined as scores not worse than responses at randomization baseline in patients who received rescue therapy, were assessed at all scheduled time points during the rescue period
- Safety was assessed through adverse events (AEs)

## RESULTS

### Efficacy

- In the abrocitinib 200-mg, abrocitinib 100-mg, and placebo arms, 43 (16.2%), 104 (39.2%), and 204 (76.4%) patients, respectively, entered the rescue period after experiencing protocol-defined flare
- By week 12 of the rescue period, 74%, 57%, and 68% patients who had been randomly assigned to undergo withdrawal of abrocitinib (ie, placebo) were able to recapture their IGA, EASI, and PP-NRS responses, respectively (Figures 2A-C)
- Among patients who were randomly assigned to receive abrocitinib 200 mg, recapture rates were 36% (IGA), 33% (EASI), and 29% (PP-NRS); the corresponding rates among those who had received abrocitinib 100 mg were 51%, 32%, and 40%, respectively (Figures 2A-C)

Figure 2. Proportions of Patients Who Recaptured (A) IGA, (B) EASI, and (C) PP-NRS Responses<sup>a</sup> With Rescue Therapy After Experiencing Protocol-Defined Flare<sup>b</sup>



Time (weeks)	Placebo	Abrocitinib 100 mg QD	Abrocitinib 200 mg QD
0	192	100	41
2	198	100	40
4	203	101	41
8	196	103	42

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Time (weeks)	Placebo	Abrocitinib 100 mg QD	Abrocitinib 200 mg QD
0	173	94	31
2	157	88	29
4	169	85	29
8	88	58	21

EASI, Eczema Area and Severity Index; IGA, Investigator's Global Assessment; PP-NRS, Peak Pruritus Numerical Rating Scale; QD, once daily.  
<sup>a</sup>Recapture of response was defined as a score not worse than the score at randomization baseline.  
<sup>b</sup>Flare was defined as  $\geq 50\%$  loss of week 12 EASI response and IGA score  $\geq 2$ .

## Safety

- AEs were experienced by a greater proportion of patients who entered the rescue period from the abrocitinib 200-mg treatment arm (55.8%) than from the placebo arm (33.8%) or the abrocitinib 100-mg arm (30.8%) (Table 1)
  - Most AEs in the rescue period were mild or moderate across treatment arms

Table 1. Summary of Adverse Events During the Rescue Period of JADE REGIMEN

	Abrocitinib 200 mg → Placebo n=204	Abrocitinib 200 mg → Abrocitinib 100 mg n=104	Abrocitinib 200 mg → Abrocitinib 200 mg n=43
Any AE, n (%)	69 (33.8)	32 (30.8)	24 (55.8)
Severe AE, n (%)	4 (2.0)	2 (1.9)	2 (4.7)
Discontinuation because of AE, n (%)	2 (1.0)	3 (2.9)	2 (4.7)
Most frequently reported TEAE of any cause (>5% in any treatment group), n (%)			
Nasopharyngitis	8 (3.9)	6 (5.8)	3 (7.0)
Upper respiratory tract infection	17 (8.3)	2 (1.9)	2 (4.7)
Dermatitis atopic	7 (3.4)	4 (3.8)	3 (7.0)
TEAEs of special interest			
Herpes zoster	2 (1.0)	4 (3.8)	2 (4.7)
Thrombocytopenia	0	0	0

AE, adverse event; TEAE, treatment-emergent adverse event.

## CONCLUSION

- Rescue therapy with abrocitinib 200 mg + topical medicated therapy recaptured response in a large proportion of patients who experienced flare during the maintenance period of JADE REGIMEN and was associated with an acceptable safety profile

## REFERENCES

- Boguniewicz M et al. *Ann Allergy Asthma Immunol.* 2018;120:10-22.
- Blauvelt A et al. *J Am Acad Dermatol.* 2022;86:104-112.

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## DISCLOSURES

JIS served as an investigator for Celgene, Eli Lilly and Company, F. Hoffmann-La Roche, Menlo Therapeutics, Realm Therapeutics, Regeneron, and Sanofi; as a consultant for Pfizer Inc., AbbVie, Anacor, AnaptysBio, Arena Pharmaceuticals, Dermavant, Dermira, Eli Lilly and Company, Galderma, GlaxoSmithKline, Glenmark, Incyte, Kiniksa Pharmaceuticals, LEO Pharma, Menlo Therapeutics, Novartis, Realm Therapeutics, Regeneron, and Sanofi-Genzyme; and as a speaker for Regeneron and Sanofi-Genzyme. MB has been an investigator for Regeneron and Incyte and advisor for Pfizer Inc., AbbVie, Eli Lilly and Company, Incyte, Janssen, LEO Pharma, Regeneron, and Sanofi-Genzyme. KP has been a consultant, scientific adviser, investigator, scientific officer, and/or speaker for Pfizer Inc., AbbVie, Akros, Allergan, Amgen, Anacor, Arcutis, Astellas, AstraZeneca, Baxalta, Baxter, Bausch Health, Boehringer Ingelheim, BMS, CanFite, Celgene, Coherus, Dermira, Dow Pharma, Eli Lilly and Company, Forward Pharma, Galderma, Genentech, Gilead, GlaxoSmithKline, Janssen, Kyowa Hakka Kirin, LEO Pharma, MedImmune, Meiji Seika Pharma, Merck Sharp & Dahme, Merck-Serono, Mitsubishi Pharma, Novartis, PRCL Research, Regeneron, Roche, Sanofi-Aventis/Genzyme, Sun Pharma, Takeda, UCB, and Valeant. AT had nothing to declare. PK, CF, and ML are employees and stockholders of Pfizer Inc.



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