Integrated Safety Analysis of Ritlecitinib for the Treatment of Alopecia Areata (AA) From the Phase 2 and Phase 3 ALLEGRO Clinical Trial Program

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BACKGROUND & OBJECTIVE

- AA is an autoimmune disease with an underlying immunoinflammatory pathogenesis characterized by nonscarring hair loss ranging from small bald patches to complete loss of scalp, face, and body hair¹
- In the ALLEGRO phase 2b/3 study, ritlecitinib, an oral JAK3/TEC family kinase inhibitor, demonstrated efficacy and safety up to 48 weeks in patients aged ≥12 years with AA²
- Here we present an integrated safety analysis of ritlecitinib in patients with AA from 4 studies from the ALLEGRO clinical trial program

ANALYSIS POPULATIONS

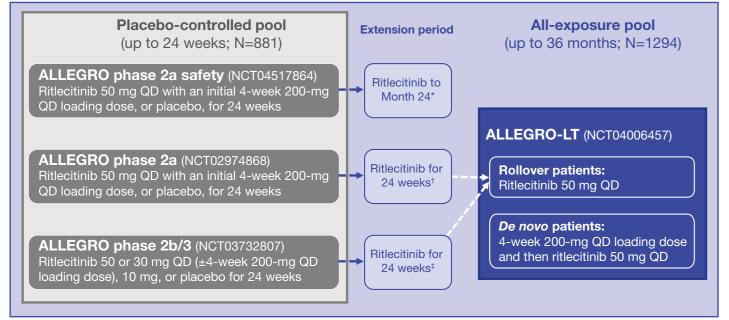
Two pools were analyzed:

- A <u>placebo-controlled pool</u> (up to 24 weeks)
- An <u>all-exposure pool</u>: patients who received ≥1 ritlecitinib dose (up to 36 months)
- Data were analyzed for those exposed to any ritlecitinib dose (10 mg, 30 mg, 50 mg, 200/30 mg, or 200/50 mg) and for patients who only received ritlecitinib 50 mg (±200-mg loading dose)

Key eligibility criteria included:

- Male or female aged ≥12 years
- Diagnosis of AA with ≥25% or ≥50% scalp hair loss
- Current AA episode duration of 6 months to 10 years
- No concomitant treatments for AA allowed

Figure 1. Studies included in the placebo-controlled and all-exposure pools



*In the ALLEGRO phase 2a safety study, the placebo-controlled period continued to Month 9. At Month 9, patients entered an active therapy extension; placebo groups switched to 200/50 mg and the 50-mg group continued 50 mg until Month 24. †In the ALLEGRO phase 2a study, following a 4-week washout period after Week 24, patients could continue treatment in a 24-week single-blind extension in which placebo and active nonresponders received 200/50 mg. After another 4-week washout period, nonresponders could enter into a 24-week, cross-over, open label extension period. †In ALLEGRO-2b/3, after Week 24, ritlecitinib groups continued their 50-, 30-, or 10-mg maintenance doses for another 24 weeks, and patients initially assigned to placebo switched to ritlecitinib 200/50 mg or 50 mg daily for 24 weeks. Eligible patients who completed ALLEGRO-2a or -2b/3 could roll over into ALLEGRO-LT. Data cutoff for ALLEGRO-LT and the phase 2a safety study: May 30, 2022.

STATISTICAL METHODS

- Safety data were integrated from the 4 phase 2/3 studies and were summarized descriptively using counts and percentages for adverse events (AEs) and lab abnormalities in each pool
- In the all-exposure pool, safety events were evaluated:
- Any-ritlecitinib group: from the start of the patients' first dose of ritlecitinib (any ritlecitinib dose: 10 mg, 30 mg, 50 mg, 200/30 mg, or 200/50 mg)
- Ritlecitinib 50-mg group: from the time a patient started the 50-mg dose (or the 200-mg loading dose), as some patients received placebo or other ritlecitinib doses before switching to ritlecitinib 50 mg
- Incidence rates (IRs) are reported
- Study-size-adjusted IRs were reported per 100 patient-years (PY) and are presented with mid-p gamma CIs

RESULTS

- This analysis includes data from a total of 1294 patients, representing 2091.7 total patient-years of exposure to any dose of ritlecitinib
- Median ritlecitinib exposure was 624 days; 69% of patients had ≥18 months of ritlecitinib exposure at the time of data cut off
- Baseline characteristics were generally similar and well balanced between groups in the placebo-controlled pool

Table 1. Duration of treatment and patient exposure

	All-Exposure Pool (N=1294)				
Duration of exposure	Ritlecitinib 50 mg* (n=1228)	Any ritlecitinib (n=1294)			
Median (range), days	547 (1-1181)	624 (1-1181)			
Mean (SD), days	540 (245)	590 (266)			
Total patient-years	1813.7	2091.7			
DD					

QD, once daily. *Patients received ritlecitinib 50 mg QD \pm an initial 4-week 200-mg QD loading dose.

Table 2. Baseline characteristics

	Placebo-Controlled Pool (N=881)				All-Exposure Pool (N=1294)		
	Placebo (n=213)	Ritle 10 mg (n=62)	Ritle 30 mg* (n=261)	Ritle 50 mg [†] (n=345)	Ritle 50 mg [†] (n=1228)	Any-ritlecitinib (n=1294)	
Age, mean (SD), years	35.0 (14.0)	34.6 (13.9)	33.7 (14.3)	34.1 (13.6)	33.8 (14.0)	33.8 (14.0)	
Female, n (%)	140 (65.7)	42 (67.7)	165 (63.2)	213 (61.7)	780 (63.5)	822 (63.5)	
Race, n (%)							
White	167 (78.4)	41 (66.1)	181 (69.3)	234 (67.8)	861 (70.1)	904 (69.9)	
Asian	33 (15.5)	17 (27.4)	62 (23.8)	82 (23.8)	270 (22.0)	287 (22.2)	
Black	8 (3.8)	2 (3.2)	9 (3.4)	22 (6.4)	52 (4.2)	55 (4.3)	
Other	4 (1.9)	1 (1.6)	8 (3.1)	4 (1.2)	28 (2.3)	30 (2.3)	
Weight, mean (SD), kg	73.2 (22.2)	68.8 (17.8)	70.4 (16.9)	72.3 (17.9)	71.1 (18.2)	71.1 (18.0)	
AT/AU, n (%) [‡]	92 (43.2)	29 (46.8)	121 (46.4)	149 (43.2)	502 (40.9)	533 (41.2)	
AA disease duration, median (IQR), years	7.2 (2.4-14.0)	7.2 (3.1-17.2)	6.8 (2.9-13.7)	6.9 (2.8-13.0)	6.7 (2.6-13.5)	6.7 (2.7-13.5)	
*Patients received ritlecitinib 30 mg QD \pm an initial 4-we	ek 200-mg QD loading dos	e. †Patients received ritlecitini	b 50 mg QD ± an initial 4-wee	ek 200-mg QD loading dose. ‡	AT/AU was defined as a basel	ine SALT score of 100 (comp	

- AEs were generally mild, self-limiting, and seldom required dose interruption or permanent discontinuation of treatment
- In the all-exposure pool, most SAEs were in the Infections and Infestations SOC (n=14 [1.1%])
- There were 2 deaths; 1 patient died of breast cancer (spindle cell carcinoma) and 1 of acute respiratory failure/cardiorespiratory arrest; both events were assessed by the investigator as unrelated to study treatment

Table 3. Overview of AEs

		Placebo-Control	All-Exposure Pool (N=1294)			
n (%)	Placebo	Ritle 10 mg	Ritle 30 mg [†]	Ritle 50 mg [‡]	Ritle 50 mg [‡]	Any-ritlecitinib
IR (95% CI)*	(n=213)	(n=62)	(n=261)	(n=345)	(n=1228)	(n=1294)
AEs	148 (69.5)	43 (69.4)	186 (71.3)	249 (72.2)	989 (80.5)	1094 (84.5)
	324 (272-383)	251 (184-334)	275 (238-317)	353 (311-400)	161 (151-171)	180 (169-191)
SAEs	4 (1.9)	2 (3.2)	1 (0.4)	4 (1.2)	52 (4.2)	57 (4.4)
	4.5 (1.3-11.4)	5.8 (1.0-19.0)	0.7 (0.0-3.4)	2.7 (0.9-6.5)	2.8 (2.1-3.7)	2.6 (2.0-3.4)
Severe AEs	5 (2.3)	2 (3.2)	10 (3.8)	6 (1.7)	66 (5.4)	83 (6.4)
	5.0 (1.7-12.1)	5.9 (1.0-19.3)	7.0 (3.6-12.5)	4.1 (1.6-8.4)	3.6 (2.8-4.6)	3.9 (3.1-4.8)
Discontinuations due to AEs	5 (2.3)	2 (3.2)	4 (1.5)	8 (2.3)	68 (5.5)	78 (6.0)
	4.2 (1.4-10.6)	5.8 (1.0-19.0)	2.8 (0.9-6.7)	5.0 (2.3-9.6)	3.6 (2.8-4.6)	3.6 (2.8-4.5)
Death	0	0	0	0	2 (0.2) 0.1 (0.0-0.4)	2 (0.2) 0.1 (0.0-0.3)

*Study-size-adjusted IRs are per 100 PY and are presented with mid-p gamma Cls. †Patients received ritlecitinib 30 mg QD \pm an initial 4-week 200-mg QD loading dose. †Patients received ritlecitinib 50 mg QD \pm an initial 4-week 200-mg QD loading dose.

Table 4. Common TEAEs

		Placebo-Control	All-Exposure Pool (N=1294)			
n (%)	Placebo	Ritle 10 mg	Ritle 30 mg [†]	Ritle 50 mg [‡]	Ritle 50 mg [‡]	Any-ritlecitinib
IR (95% CI)*	(n=213)	(n=62)	(n=261)	(n=345)	(n=1228)	(n=1294)
Headache	17 (8.0)	11 (17.7)	30 (11.5)	32 (9.3)	186 (15.1)	229 (17.7)
	19.0 (11.1-30.9)	35.9 (18.9-62.4)	22.5 (15.5-31.8)	21.3 (4.7-29.8)	10.7 (9.3-12.4)	11.9 (10.4-13.5)
SARS-CoV-2 test positive	1 (0.5) 1.3 (0.1-6.6)	0	4 (1.5) 2.8 (0.9-6.7)	4 (1.2) 2.7 (0.9-6.5)	192 (15.6) 10.7 (9.2-12.3)	201 (15.5) 9.8 (8.5-11.2)
Nasopharyngitis	15 (7.0)	6 (9.7)	34 (13.0)	34 (9.9)	117 (9.5)	160 (12.4)
	14.8 (8.2-24.9)	18.5 (7.5-38.4)	25.3 (17.8-35.0)	23.2 (16.3-32.1)	6.6 (5.5-7.9)	8.2 (7.0-9.5)
Acne	10 (4.7)	3 (4.8)	14 (5.4)	20 (5.8)	111 (9.0)	135 (10.4)
	10.3 (5.0-19.4)	8.9 (2.3-24.2)	9.9 (5.6-16.2)	12.7 (8.0-19.4)	6.2 (5.1-7.4)	6.8 (5.7-8.0)
Upper respiratory tract infection	16 (7.5)	2 (3.2)	21 (8.0)	29 (8.4)	104 (8.5)	132 (10.2)
	17.1 (9.7-28.2)	5.8 (1.0-19.3)	15.1 (9.6-22.6)	19.7 (13.4-28.0)	5.9 (4.8-7.1)	6.5 (5.4-7.7)
Pyrexia	0	1 (1.6) 2.9 (0.1-14.3)	3 (1.1) 2.1 (0.5-5.6)	8 (2.3) 5.3 (2.4-10.0)	93 (7.6) 5.0 (4.1-6.1)	98 (7.6) 4.6 (3.8-5.6)
Cough	2 (0.9) 2.7 (0.4-8.8)	0	3 (1.1) 2.1 (0.5-5.6)	6 (1.7) 4.1 (1.6-8.5)	93 (7.6) 5.2 (4.2-6.3)	96 (7.4) 4.5 (3.7-5.5)
Fatigue	5 (2.3)	2 (3.2)	12 (4.6)	5 (1.4)	77 (6.3)	91 (7.0)
	4.3 (1.4-10.7)	5.9 (1.0-19.5)	8.5 (4.6-14.4)	3.4 (1.2-7.5)	4.2 (3.3-5.2)	4.3 (3.5-5.3)

Most frequent AEs in the any-ritlecitinib pool, >5% by preferred term.
*Study-size-adjusted IRs are per 100 PY and are presented with mid-p gamma CIs. †Patients received ritle

*Study-size-adjusted IRs are per 100 PY and are presented with mid-p gamma CIs. †Patients received ritlecitinib 30 mg QD \pm an initial 4-week 200-mg QD loading dose. †Patients received ritlecitinib 50 mg QD \pm an initial 4-week 200-mg QD loading dose.

- One event of multi-dermatomal herpes zoster was adjudicated as an opportunistic infection
- There were 4 events adjudicated as breast cancer and 1 event each of testis cancer, papillary thyroid cancer, and malignant melanoma
- One event of pulmonary embolism was adjudicated as a VTE

Table 5. AEs of special interest

		Placebo-Control	All-Exposure Pool (N=1294)			
n (%) IR (95% CI)*	Placebo (n=213)	Ritle 10 mg (n=62)	Ritle 30 mg [‡] (n=261)	Ritle 50 mg [§] (n=345)	Ritle 50 mg ^s (n=1228)	Any-ritlecitinib (n=1294)
Serious infections	0	0	1 (0.4) 0.7 (0.0-3.4)	2 (0.6) 1.3 (0.2-4.4)	12 (1.0) 0.7 (0.4-1.1)	14 (1.1) 0.6 (0.4-1.1)
Opportunistic infections [†]	0	0	0	1 (0.3) 0.5 (0.0-2.9)	1 (<0.1) 0.1 (0.0-0.3)	1 (<0.1) 0.1 (0.0-0.2)
Herpes zoster	0	0	2 (0.8) 1.4 (0.2-4.6	3 (0.9) 1.9 (0.5-5.2)	18 (1.5) 1.0 (0.6-1.6)	20 (1.5) 0.9 (0.6-1.4)
Herpes simplex	5 (2.3) 5.1 (1.7-12.1)	1 (1.6) 2.9 (0.1-14.2)	8 (3.1) 5.6 (2.6-10.6	3 (0.9) 1.9 (0.5-5.2)	25 (2.0) 1.3 (0.9-1.9)	37 (2.9) 1.7 (1.2-2.4)
Malignancies (excl NMSC)†	0	0	0	1 (0.3) 0.7 (0.0-3.3)	7 (0.6) 0.4 (0.2-0.8)	7 (0.5)¶ 0.3 (0.1-0.6)
NMSC†	0	0	0	0	3 (0.2) 0.2 (0.0-0.4)	3 (0.2) 0.1 (0.0-0.4)
MACE [†]	0	0	0	0	3 (0.2) 0.2 (0.0-0.4)	3 (0.2) 0.1 (0.0-0.4)
VTE [†]	0	0	0	0	1 (<0.1) 0.1 (0.0-0.3)	1 (<0.1) 0.1 (0.0-0.2)

*Study-size-adjusted IRs are per 100 PY and are presented with mid-p gamma CIs. †Adjudicated safety events. †Patients received ritlecitinib 30 mg QD ± an initial 4-week 200-mg QD loading dose. *One event of malignant melanoma was reported after the 30-day reporting period.

- Discontinuations due to changes in hematologic and laboratory parameters were infrequent
- 3 (0.2%) patients discontinued due to increased CPK levels; no events of rhabdomyolysis were reported
- There were no meaningful changes in median AST or ALT levels; no potential cases of drug-induced liver injury or Hy's law were reported

Table 6. Changes in hematologic and laboratory parameters

		Placebo-Control	All-Exposure Pool (N=1294)			
arameter (CTCAE grade), n (%)		Ritle 10 mg (n=62)	Ritle 30 mg* (n=261)	Ritle 50 mg [†] (n=345)	Ritle 50 mg [†] (n=1228)	Any-ritlecitinib (n=1294)
Grade 2: <10.0-8.0 g/dL	2 (0.9)	1 (1.6)	1 (0.4)	0	11 (0.9)	13 (1.0)
Grade 3: <8.0 g/dL	0	0	0	0	1 (<0.1)‡	1 (<0.1)‡
Grade 2: <1500-1000/mm ³	6 (2.8)	3 (4.8)	12 (4.7)	6 (1.7)	51 (4.2)	66 (5.1)
Grade 3: <1000-500/mm ³	0	0	0	0	9 (0.7)	10 (0.8)
Grade 2: <800-500/mm ³	5 (2.4)	2 (3.2)	16 (6.2)	22 (6.4)	201 (16.4)	212 (16.5)
Grade 3: <500-200/mm ³	0	0	2 (0.8)	4 (1.2)	25 (2.0)	27 (2.1)
Grade 4: <200/mm ³	0	0	0	1 (0.3)§	1 (<0.1)§	1 (<0.1)§
Grade 2 (>2.5-5× ULN)	3 (1.4)	1 (1.6)	4 (1.6)	9 (2.6)	64 (5.2)	70 (5.5)
Grade 3 (>5-10× ULN)	1 (0.5)	1 (1.6)	3 (1.2)	11 (3.2)	37 (3.0)	37 (2.9)
Grade 4 (>10× ULN)	1 (0.5)	1 (1.6)	4 (1.6)	5 (1.5)	28 (2.3)	39 (3.0)
	0	1 (1.6)	2 (0.8)	2 (0.6)	23 (1.9)	30 (2.3)
	0	1 (1.6)	3 (1.2)	3 (0.9)	28 (2.3)	32 (2.5)
g/dL) <0.8× LLN	0	0	1 (0.4)	3 (1.0)	5 (0.4)	7 (0.6)
/dL) >1.2× ULN	0	1 (1.6)	1 (0.4)	2 (0.7)	16 (1.4)	19 (1.6)
Triglycerides (mg/dL) >1.3× ULN		4 (6.6)	13 (5.1)	11 (3.6)	83 (7.2)	99 (8.2)
	Grade 2: <10.0-8.0 g/dL Grade 3: <8.0 g/dL Grade 2: <1500-1000/mm³ Grade 3: <1000-500/mm³ Grade 2: <800-500/mm³ Grade 3: <500-200/mm³ Grade 4: <200/mm³ Grade 2 (>2.5-5× ULN) Grade 3 (>5-10× ULN) Grade 4 (>10× ULN)	Grade 2: <10.0-8.0 g/dL 2 (0.9) Grade 3: <8.0 g/dL 0 Grade 2: <1500-1000/mm³ 6 (2.8) Grade 3: <1000-500/mm³ 0 Grade 2: <800-500/mm³ 5 (2.4) Grade 3: <500-200/mm³ 0 Grade 4: <200/mm³ 0 Grade 2 (>2.5-5× ULN) 3 (1.4) Grade 3 (>5-10× ULN) 1 (0.5) Grade 4 (>10× ULN) 1 (0.5) Grade 4 (>10× ULN) 0 0 0/dL) <0.8× LLN 0 /dL) >1.2× ULN 0	Ade), n (%) Placebo (n=213) Grade 2: <10.0-8.0 g/dL Grade 3: <8.0 g/dL Grade 2: <1500-1000/mm³ Grade 2: <1500-500/mm³ Grade 2: <800-500/mm³ Grade 3: <500-200/mm³ Grade 4: <200/mm³ Grade 2 (>2.5-5×ULN) Grade 3 (>5-10×ULN) Grade 4 (>10×ULN) Grade 4 (>10×ULN) Grade 4 (>10×ULN) Grade 5 (0.8) Ritle 10 mg (n=62) 1 (1.6) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Grade 2: <10.0-8.0 g/dL	Ade), n (%) Placebo (n=213) Ritle 10 mg (n=62) Ritle 30 mg* (n=345) Ritle 50 mg† (n=345) Grade 2: <10.0-8.0 g/dL 0 0 0 0 0 Grade 3: <8.0 g/dL 0 0 0 0 0 Grade 3: <1500-1000/mm³ 6 (2.8) 3 (4.8) 12 (4.7) 6 (1.7) Grade 3: <1000-500/mm³ 0 0 0 0 Grade 2: <800-500/mm³ 5 (2.4) 2 (3.2) 16 (6.2) 22 (6.4) Grade 3: <500-200/mm³ 0 0 0 1 (0.3) Grade 4: <200/mm³ 0 0 0 0 1 (0.3) Grade 2 (>2.5-5× ULN) 3 (1.4) 1 (1.6) 4 (1.6) 9 (2.6) Grade 3 (>5-10× ULN) 1 (0.5) 1 (1.6) 3 (1.2) 11 (3.2) Grade 4 (>10.6) 0 1 (1.6) 3 (1.2) 3 (0.9) g/dL) <0.8× LLN 0 0 1 (0.4) 3 (1.0) 7 (dL) >1.2× ULN 0 1 (0.4) 2 (0.7)	Ade), n (%) Placebo (n=213) Ritle 10 mg (n=62) Ritle 30 mg* (n=345) Ritle 50 mg* (n=1228) Grade 2: <10.0-8.0 g/dL 2 (0.9) 1 (1.6) 1 (0.4) 0 11 (0.9) Grade 3: <8.0 g/dL 0 0 0 0 0 1 (<0.1)* Grade 2: <1500-1000/mm³ 6 (2.8) 3 (4.8) 12 (4.7) 6 (1.7) 51 (4.2) Grade 3: <1000-500/mm³ 0 0 0 0 9 (0.7) Grade 2: <800-500/mm³ 5 (2.4) 2 (3.2) 16 (6.2) 22 (6.4) 201 (16.4) Grade 3: <500-200/mm³ 0 0 2 (0.8) 4 (1.2) 25 (2.0) Grade 4: <200/mm³ 0 0 0 1 (0.3)* 1 (<0.1)* Grade 2 (>2.5-5× ULN) 3 (1.4) 1 (1.6) 4 (1.6) 9 (2.6) 64 (5.2) Grade 3 (>5-10× ULN) 1 (0.5) 1 (1.6) 3 (1.2) 11 (3.2) 37 (3.0) Grade 4 (>10× ULN) 1 (0.5) 1 (1.6) 4 (1.6) 5 (1.5) 28 (2.3) O

n based on number of patients with single, unconfirmed values meeting each CTCAE grade criterion during study treatment or lag time (35 days). There were no cases of Grade ≥2 decreases in platelets (<75,000/mm³) *Patients received ritlecitinib 30 mg QD \pm an initial 4-week 200-mg QD loading dose. †Patients received ritlecitinib 50 mg QD \pm an initial 4-week 200-mg QD loading dose. †This patient had a baseline Hgb of 12.7 g/dL. On Day 265, an NSAE of anemia (moderate) was reported due to Hgb of 7.8 g/dL, and study drug was temporarily interrupted. Hgb levels returned to within normal range (11.9 g/dL), and the patient later withdrew for private reasons. §This patient did not meet the per-protocol lymphocyte criteria for discontinuation (<500/mm³) as the result was not confirmed upon retest.

CONCLUSIONS

- This integrated safety analysis of 4 trials of ritlecitinib in 1294 patients aged ≥12 years with AA, reflecting 2092 patient-years of exposure (median: 1.7 years), revealed no new safety signals and was consistent with the known safety profile of ritlecitinib
- The most frequently reported AEs were headache, SARS-CoV-2 test positive, nasopharyngitis, acne, and upper respiratory tract infection
- Most AEs were mild in severity and did not require dose interruption or permanent treatment discontinuation; 6% of patients (78/1294) discontinued due to AEs
- Long-term changes in laboratory parameters were generally minimal, and levels remained stable through the course of treatment
- Longer follow-up is needed to assess the risk of rare events, such as malignancies and cardiovascular events
- Data from across the ALLEGRO program suggest that the long-term safety profile of ritlecitinib is favorable and supports its use for the long-term treatment of AA

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ABBREVIATIONS

AA alopecia areata: AE adv

AA, alopecia areata; AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; AT, alopecia totalis; AU, alopecia universalis; CI, confidence interval; CPK, creatine phosphokinase; CTCAE, Common Terminology Criteria for Adverse Events; HDL, high-density lipoprotein; Hgb, hemoglobin; IQR, interquartile range IR, incidence rate; LDL, low-density lipoprotein; LLN, lower limit of normal; MACE, major adverse cardiovascular events; NMSC, nonmelanoma skin cancer; NSAE, nonserious adverse event; PY, patient-years; QD, once daily; Ritle, ritlecitinib; SALT, Severity of Alopecia Tool; SAE, serious AE; SOC, system organ class; TEAE, treatment-emergent AE; ULN, upper limit of normal; VTE, venous thromboembolic event.

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