

Efficacy and Safety of Upadacitinib in Giant Cell Arteritis: 2-Year Results From the Re-Randomized, Double-Blind SELECT-GCA Phase 3 Trial

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Wolfgang A. Schmidt,^{1,2} Arathi R. Setty,³ Christian Dejaco,^{4,5} Andrea Rubbert-Roth,⁶ Maria C. Cid,⁷ Tomonori Ishii,⁸ Avani D. Joshi,³ Nathaniel Zerad,³ Aditi Kadakia,³ Shaofei Zhao,³ Weihan Zhao,³ Ivan Lagunes,³ Charles Phillips,³ Daniel Blockmans,⁹ Peter A. Merkel¹⁰

¹Immanuel Krankenhaus Berlin, Medical Centre for Rheumatology Berlin-Buch, Berlin, Germany; ²Waldfriede Hospital, Rheumatology, Berlin, Germany; ³AbbVie Inc., North Chicago, IL, USA; ⁴Department of Rheumatology, Hospital of Brunico (SABES-ASDAA), Brunico, Italy; ⁵Medical University of Graz, Department of Rheumatology, Graz, Austria; ⁶Division of Rheumatology and Immunology, Cantonal Hospital St Gallen, St Gallen, Switzerland; ⁷Department of Autoimmune Diseases (member of European Reference Network RITA), Hospital Clinic, University of Barcelona, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain; ⁸Division of Hematology and Rheumatology, Tohoku Medical and Pharmaceutical University, Sendai, Japan; ⁹Department of General Internal Medicine, University Hospitals Leuven, Leuven, Belgium; ¹⁰Division of Rheumatology, Department of Medicine, Division of Epidemiology, Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania, Philadelphia, PA, USA

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OBJECTIVE

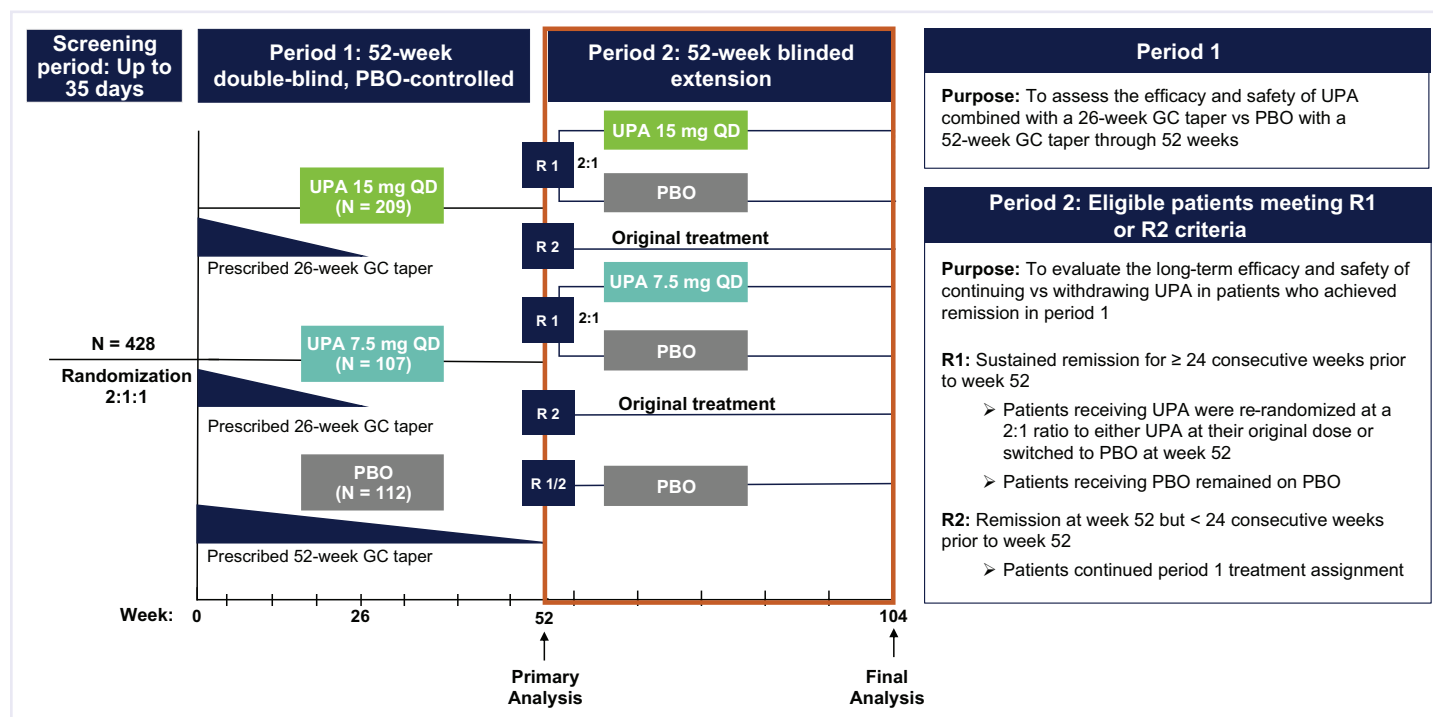
- To assess the efficacy and safety of UPA over 2 years in patients with GCA having ≥ 24 weeks of consecutive remission prior to the week-52 visit

BACKGROUND

- In the SELECT-GCA phase 3 trial, patients with GCA receiving upadacitinib (UPA) 15 mg had **higher rates of disease remission, fewer disease flares, and reduced use of glucocorticoids** compared with patients receiving placebo (PBO) through week 52¹
 - **Sustained remission at week 52** (primary endpoint): **29.0% with PBO vs 46.4% with UPA 15 mg** ($P = .002$)
 - **Median cumulative glucocorticoid exposure** through week 52: **2882 mg with PBO vs 1615 mg with UPA 15 mg**
- UPA 15 mg once daily is approved** for the treatment of adults with giant cell arteritis in many countries, including the United States and the European Union

METHODS

Figure 1. SELECT-GCA Study Design



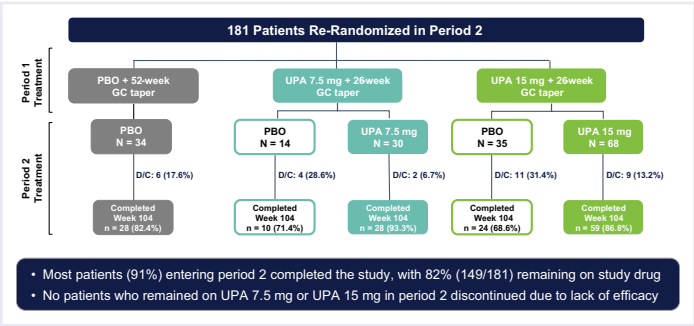
METHODS (CONTINUED)

Table 1. Definitions of Flare and Remission-Based Assessments in Period 2

Term	Definition
Disease flare	• Recurrence of signs or symptoms of GCA or ESR > 30 mm/hour (attributable to GCA) • Requiring reinitiation of GCs
Remission	• Absence of signs and symptoms of GCA • No GC use for GCA
Complete remission	• Remission • Normalization of ESR (≤ 30 mm/hour)^a • Normalization of hsCRP (< 1 mg/dL)
Cumulative dose of GCs	• Total amount of GCs, in mg of prednisone equivalent, received from week 52 to week 104

GC, glucocorticoid.
^aIf ESR > 30 mm/hour and the elevation was not attributable to GCA, this criterion could still be met.

Figure 2. Disposition of Patients Entering Period 2^a



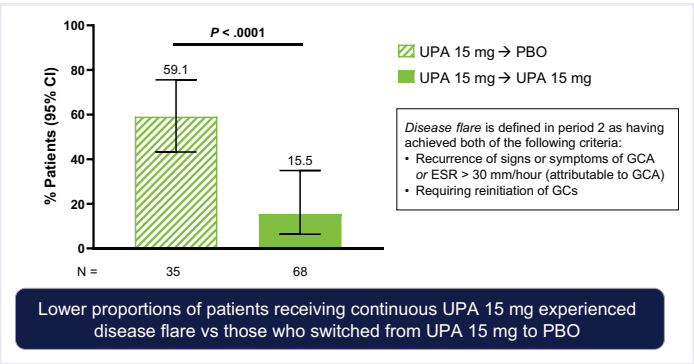
GC, glucocorticoid; PBO, placebo; UPA, upadacitinib.
^aIncludes patients who achieved ≥ 24 weeks of consecutive remission before the week 52 visit.

Table 2. Baseline Characteristics of Patients Entering Period 2

Baseline characteristics, n (%) unless specified		PBO + 52-week GC taper → PBO N = 34	UPA 7.5 mg + 26-week GC taper → PBO N = 14	UPA 7.5 mg + 26-week GC taper → UPA 7.5 N = 30	UPA 15 mg + 26-week GC taper → PBO N = 35	UPA 15 mg + 26-week GC taper → UPA 15 N = 68
Sex	Female	21 (61.8)	11 (78.6)	21 (70.0)	27 (77.1)	51 (75.0)
	Male	13 (38.2)	3 (21.4)	9 (30.0)	8 (22.9)	17 (25.0)
Age (years)	Mean (SD)	70.2 (7.8)	71.0 (7.5)	71.8 (7.2)	69.9 (6.7)	71.3 (8.2)
	Min, Max	54, 84	56, 84	55, 88	56, 82	51, 88
Race	Asian	2 (5.9)	0	0	4 (11.4)	4 (5.9)
	White	32 (94.1)	14 (100)	30 (100)	31 (88.6)	64 (94.1)
Disease status	New onset	26 (76.5)	9 (64.3)	19 (63.3)	26 (74.3)	49 (72.1)
	Relapsing	8 (23.5)	5 (35.7)	11 (36.7)	9 (25.7)	19 (27.9)
Disease duration since diagnosis (days)	New onset, mean (SD)	33.9 (7.5)	40.4 (13.3)	31.5 (8.8)	39.9 (13.7)	46.0 (45.5)
	Median	34.5	43	30	41	36
	Relapsing, mean (SD)	661.6 (968.5)	648.6 (254.2)	492.1 (616.8)	931.6 (769.7)	757.4 (770.6)
	Median	161	497	205	993	323
GC dose (mg)	Mean (SD)	33.5 (12.3)	32.9 (13.3)	32.7 (13.4)	32.3 (12.4)	33.1 (12.4)
	Median	30.0	35.0	30.0	30.0	30.0
ESR (mm/hour)	Mean (SD)	17.5 (19.2)	25.7 (32.2) ^a	17.3 (13.4) ^a	15.9 (12.8)	20.9 (17.9)
hsCRP (mg/dL)	Median	0.17	0.28	0.24	0.24	0.26
Prior use of IL-6 inhibitor	Yes	2 (5.9)	2 (14.3)	1 (3.3)	4 (11.4)	2 (2.9)

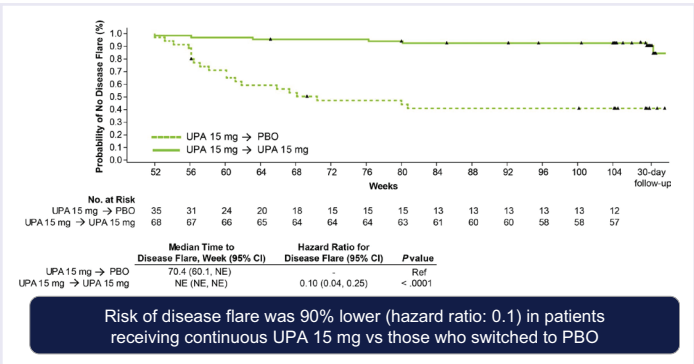
GC, glucocorticoid; PBO, placebo; UPA, upadacitinib.
^an = 13.

Figure 3. Proportion of Patients Experiencing ≥ 1 Disease Flare From Week 52 to Week 104 Plus 30 Days Follow-Up



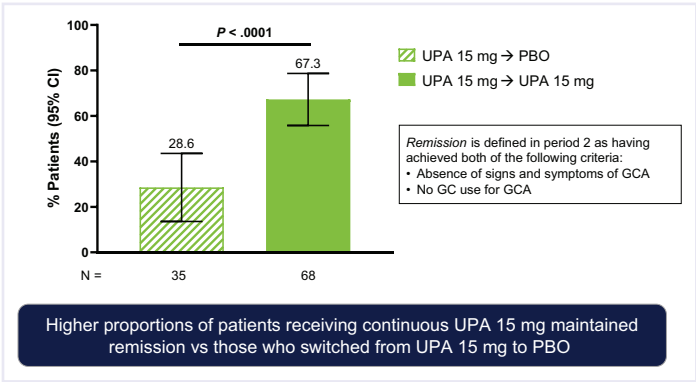
GC, glucocorticoid; PBO, placebo; UPA, upadacitinib.
All P values are nominal.

Figure 4. Time to First Disease Flare From Week 52 to Week 104 Plus 30 Days Follow-Up



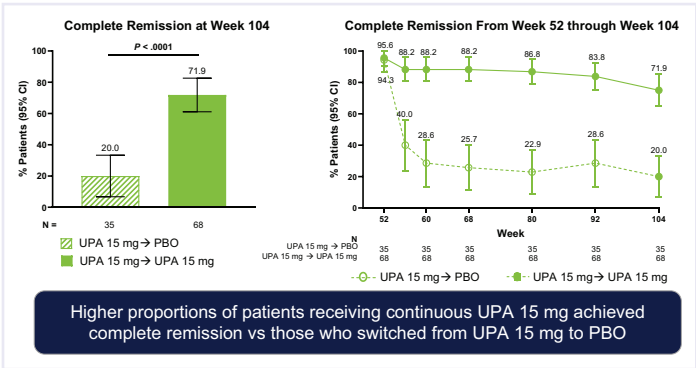
NE, not estimable; PBO, placebo; Ref, reference; UPA, upadacitinib. Values marked as NE could not be estimated within the 104-week treatment period and are indicative of a timepoint > week 104.
All P values are nominal.

Figure 5. Proportion of Patients Maintaining Remission From Week 52 to Week 104



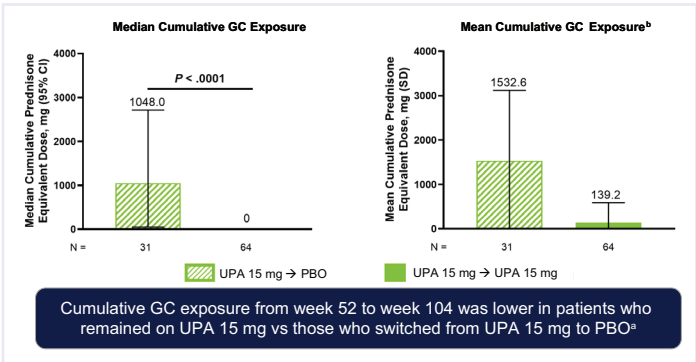
GC, glucocorticoid; PBO, placebo; UPA, upadacitinib.
All *P* values are nominal.

Figure 6. Proportion of Patients in Complete Remission From Week 52 to Week 104^a



GC, glucocorticoid; PBO, placebo; UPA, upadacitinib.
^aComplete remission is defined in period 2 as having achieved: (1) absence of the signs and symptoms of GCA, (2) no GC use for GCA, (3) normalization of ESR to ≤ 30 mm/hour (if ESR > 30 mm/hour and the elevation was not attributable to GCA; however, this criterion could still be met), and (4) normalization of hsCRP to < 1 mg/dL.
All *P* values are nominal.

Figure 7. Cumulative GC Exposure From Week 52 to Week 104



GC, glucocorticoid; PBO, placebo; UPA, upadacitinib.
^aIn prednisone/prednisolone equivalence.
^bDifferences in mean cumulative GC exposure between groups were not tested for statistical significance.
All *P* values are nominal.

Table 3. Summary of Treatment-Emergent Adverse Event Rates Through 2 Years in SELECT-GCA^{a,b}

Events/100 PY (95% CI) [No. of Events]	Through 1 Year (Period 1)		Through 2 Years	
	PBO + 52-week GC taper (N = 112) (PY = 94.3)	UPA 15 mg + 26-week GC taper (N = 209) (PY = 178.1)	PBO + 52-week GC taper (N = 112) (PY = 133.9)	UPA 15 mg + 26-week GC taper (N = 209) (PY = 270.3)
Any TEAE	748.6 (694.4, 805.9) [706]	817.7 (776.2, 860.8) [1456]	651.9 (609.4, 696.6) [873]	681 (650.2, 712.8) [1841]
Serious TEAE	42.4 (30.3, 57.8) [40]	36.5 (28.2, 46.5) [65]	36.6 (27.1, 48.4) [49]	31.1 (24.8, 38.5) [84]
AE leading to study drug discontinuation	32.9 (22.3, 46.7) [31]	23.0 (16.5, 31.2) [41]	26.1 (18.2, 36.3) [35]	19.2 (14.4, 25.2) [52]
Deaths	2.1 (0.3, 7.7) [2]	1.1 (0.1, 4.1) [2]	1.5 (0.2, 5.4) [2]	0.7 ^c (0.1, 2.7) [2]

AE, adverse event; PBO, placebo; PY, patient-years; TEAE, treatment-emergent adverse event; UPA, upadacitinib.
^aAll events are reported as TEAEs, which are defined as any adverse event with an onset date that is on or after the first dose of study drug, and no more than 30 days after the last dose of study drug. Safety analysis includes all patients enrolled in SELECT-GCA who received ≥ 1 dose of study drug.
^bSafety outcomes were also evaluated and found to be similar in patients originally randomized to PBO, UPA 7.5 mg, or UPA 15 mg and who received continuous treatment with the same drug and dose thereafter in period 2 (data not shown).
^cOne non-treatment-emergent death also occurred 60 days after the last dose of study drug in the UPA 15 mg group. Primary safety results through 1 year are further described in Blockmans D, et al. *NEJM*. 2025;392:2013–24.

Table 4. Rates of Treatment-Emergent Adverse Events of Special Interest Through 2 Years in SELECT-GCA^{a,b} (1/2)

Events/100 PY (95% CI) [No. of Events]	Through 1 Year (Period 1)		Through 2 Years	
	PBO + 52-week GC taper (N = 112) (PY = 94.3)	UPA 15 mg + 26-week GC taper (N = 209) (PY = 178.1)	PBO + 52-week GC taper (N = 112) (PY = 133.9)	UPA 15 mg + 26-week GC taper (N = 209) (PY = 270.3)
Serious infection	12.7 (6.6, 22.2) [12]	7.9 (4.3, 13.2) [14]	10.5 (5.7, 17.5) [14]	5.9 (3.4, 9.6) [16]
Opportunistic infection ^c	1.1 (0, 5.9) [1]	2.2 (0.6, 5.8) [4]	1.5 (0.2, 5.4) [2]	1.8 (0.6, 4.3) [5]
Herpes zoster	4.2 (1.2, 10.9) [4]	7.3 (3.9, 12.5) [13]	3.0 (0.8, 7.6) [4]	5.9 (3.4, 9.6) [16]
CPK elevation	0	3.4 (1.2, 7.3) [6]	0	3.3 (1.5, 6.3) [9]
Hepatic disorder	6.4 (2.3, 13.8) [6]	7.3 (3.9, 12.5) [13]	5.2 (2.1, 10.8) [7]	5.5 (3.1, 9.2) [15]
NMSC ^d	2.1 (0.3, 7.7) [2]	2.8 (0.9, 6.6) [5]	3.8 (1.2, 8.9) [5]	2.6 (1.1, 5.4) [7]
Malignancy excluding NMSC ^d	2.1 (0.3, 7.7) [2]	2.3 (0.6, 5.8) [4]	1.5 (0.2, 5.4) [2]	1.9 (0.6, 4.4) [5]
MACE (adjudicated) ^{d,e}	2.1 (0.3, 7.7) [2]	0	1.5 (0.2, 5.4) [2]	0
VTE (adjudicated) ^{d,f}	4.3 (1.2, 10.9) [4]	3.9 (1.6, 8.1) [7]	3.0 (0.8, 7.7) [4]	3.0 (1.3, 5.8) [8]
Anemia	3.2 (0.7, 9.3) [3]	8.4 (4.7, 13.9) [15]	4.5 (1.6, 9.8) [6]	8.1 (5.1, 12.3) [22]
Lymphopenia	0	2.2 (0.6, 5.8) [4]	0.7 (0, 4.2) [1]	1.8 (0.6, 4.3) [5]
Neutropenia	1.1 (0, 5.9) [1]	0	0.7 (0, 4.2) [1]	0
Retinal detachment	3.2 (0.7, 9.3) [3]	2.2 (0.6, 5.8) [4]	3.0 (0.8, 7.6) [4]	1.8 (0.6, 4.3) [5]
Bone fracture ^d	6.5 (2.4, 14.2) [6]	7.7 (4.1, 13.1) [13]	4.7 (1.7, 10.1) [6]	6.2 (3.6, 10.1) [16]

PBO, placebo; PY, patient-years; UPA, upadacitinib.
^aSafety analysis includes all patients enrolled in SELECT-GCA who received ≥ 1 dose of study drug.
^bSafety outcomes were also evaluated and found to be similar in patients originally randomized to PBO, UPA 7.5 mg, or UPA 15 mg and who received continuous treatment with the same drug and dose thereafter in period 2 (data not shown).
^cExcludes herpes zoster.
^dReported as exposure-adjusted incidence (n/100 PY) [no. of patients].
^eDefined as cardiovascular death, nonfatal myocardial infarction, and nonfatal stroke.
^fIncludes pulmonary embolism and deep vein thrombosis.
Primary safety results through 1 year are further described in Blockmans D, et al. *NEJM*. 2025;392:2013–24.

No events of TB, GI perforation, or lymphoma were reported in any of the treatment groups

CONCLUSIONS

- Continuing UPA 15 mg in patients with ≥ 24 weeks of remission prior to week 52 vs switching to PBO was associated with lower risk of flare and higher rates of remission through week 104 (end of trial)
- Patients receiving continuous UPA 15 mg showed an approximately 1-gram reduction in cumulative exposure of GCs from week 52 to week 104 compared with those who switched from UPA 15 mg to PBO at week 52
- In this population (mean age: 71 yrs), long-term use of UPA revealed no new clinically-significant safety signals, and safety remained consistent with initial 52-week results and the established profile of UPA^{1,2}
- The 2-year data from SELECT-GCA further support a favorable benefit-risk profile for UPA 15 mg in GCA

REFERENCES

1. Blockmans D, et al. *NEJM*. 2025;392:2013–24.

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