

Long-term Safety and Efficacy of Roflumilast Cream 0.3% in Adult Patients With Chronic Plaque Psoriasis: Results From a 52-Week, Phase 2b Open-label Study

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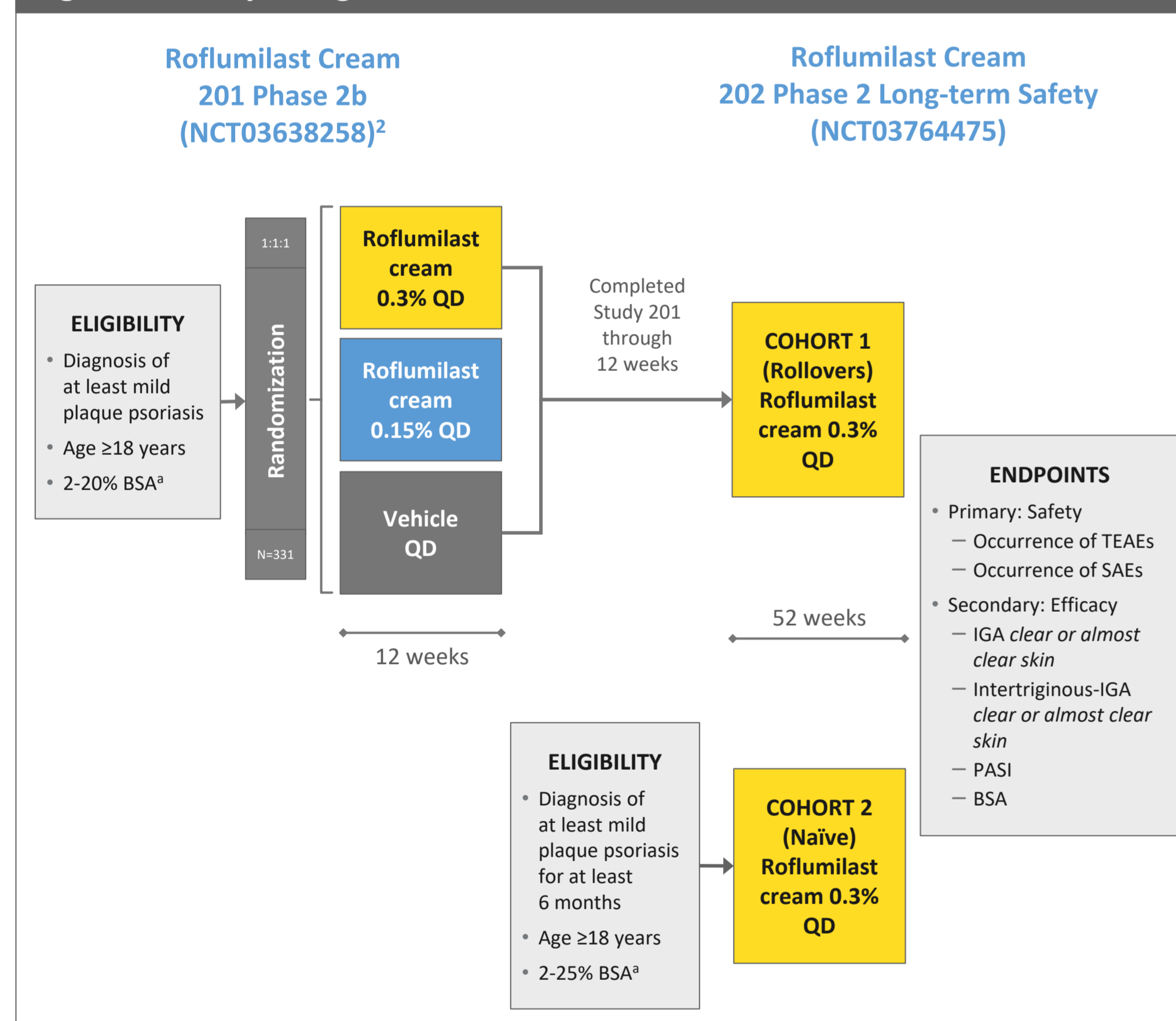
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INTRODUCTION

- Topical treatment options for chronic plaque psoriasis lack products that are safe with long-term usage, are well tolerated, and are used as single agents over the entire body
- Roflumilast cream, a phosphodiesterase-4 (PDE-4) inhibitor that is more potent than other PDE-4 inhibitors,¹ is under investigation as a once-daily, nonsteroidal, topical treatment for psoriasis
- In a phase 2b randomized, double-blind, 12-week trial of 331 adults with chronic plaque psoriasis, roflumilast cream once daily was found to be superior to vehicle cream and was well tolerated²
- This multicenter, open-label, 52-week study was also conducted to assess long-term safety of roflumilast 0.3% cream in patients with chronic plaque psoriasis

METHODS

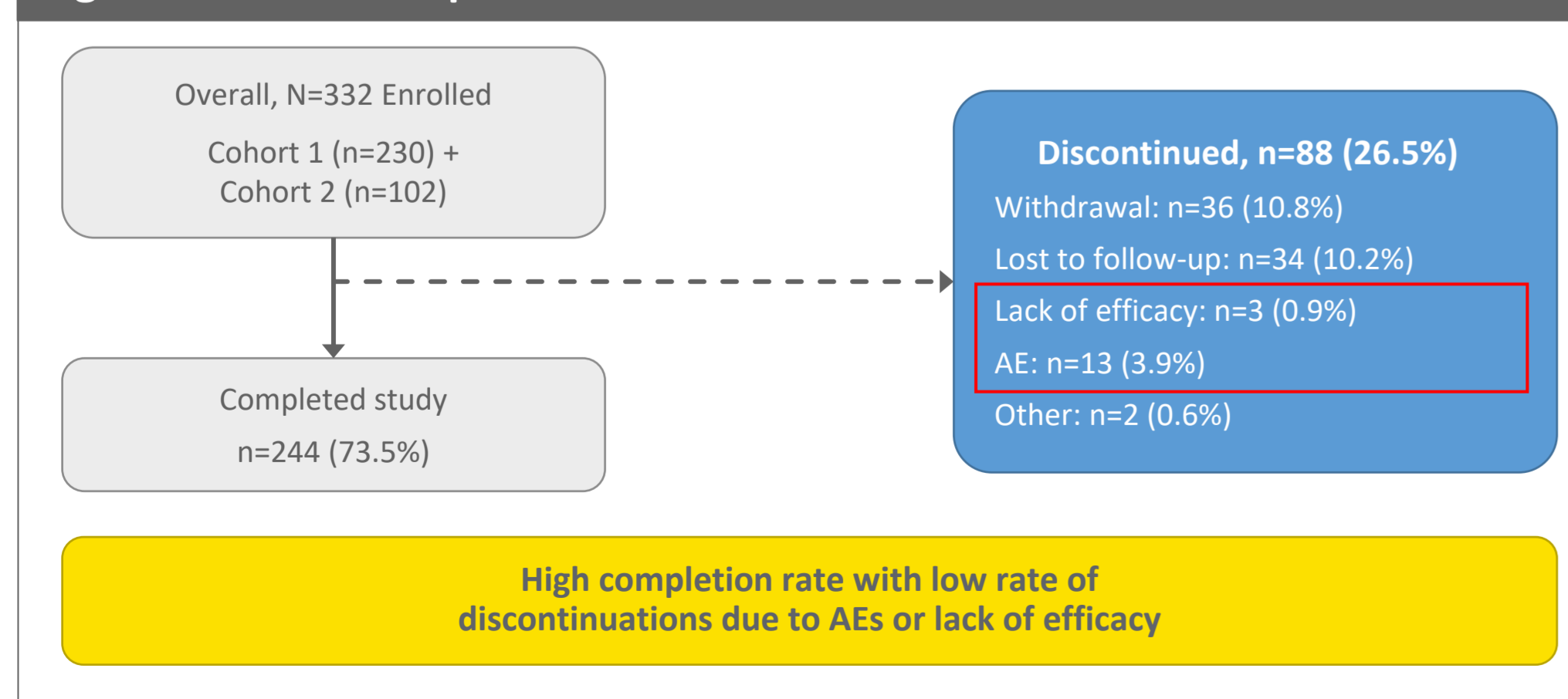
Figure 1. Study Design



^aExcludes scalp, palms, soles. BSA: body surface area; IGA: Investigator Global Assessment; QD: once daily; PASI: Psoriasis Area Severity Index; SAE: serious adverse event; TEAE: treatment-emergent adverse event.

RESULTS

Figure 2. Patient Disposition



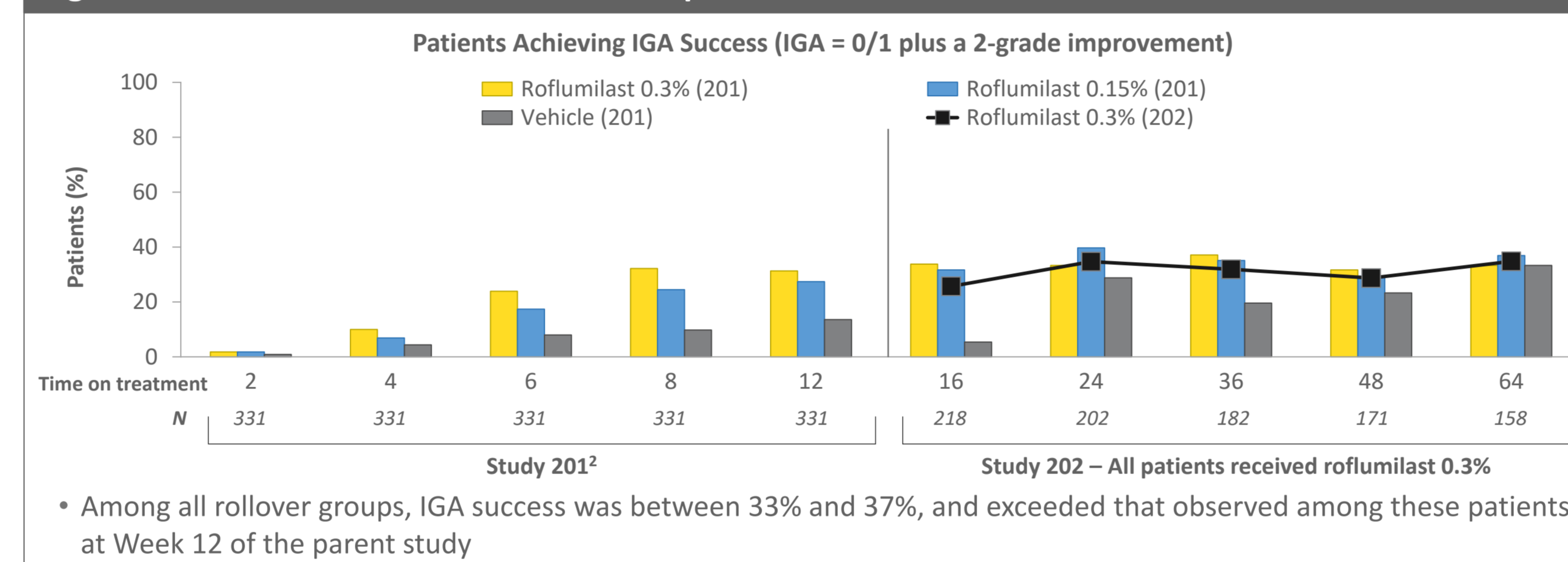
AE: adverse event.

Table 1. Baseline Disease Characteristics

	Cohort 1 Total (n=230)	Cohort 2 Total (n=102)	Overall Total (N=332)
BSA, mean %	6.2	6.6	6.3
PASI, mean	7.2	6.8	7.1
IGA score, n (%)			
1 (almost clear)	8 (3.5)	0	8 (2.4)
2 (mild)	51 (22.2)	17 (16.7)	68 (20.5)
3 (moderate)	156 (67.8)	78 (76.5)	234 (70.5)
4 (severe)	15 (6.5)	7 (6.9)	22 (6.6)
Intertriginous involvement (I-IGA ≥2)			
I-IGA, n (%)			
2 (mild)	19 (8.3)	12 (11.8)	31 (9.3)
3 (moderate)	17 (7.4)	12 (11.8)	29 (8.7)
4 (severe)	2 (0.9)	0	2 (0.6)

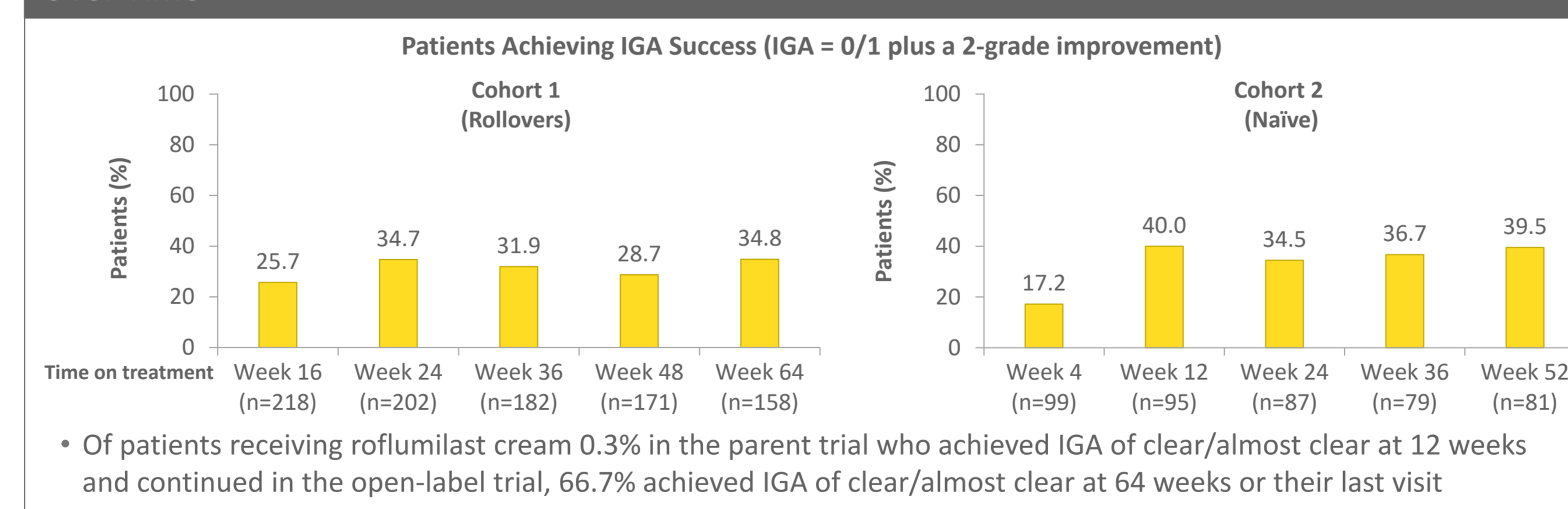
Baseline is defined as the last observation prior to the first dose of roflumilast cream in either the ARQ-151-201 or ARQ-151-202 study. BSA: body surface area; IGA: Investigator Global Assessment; I-IGA: Intertriginous Investigator Global Assessment; PASI: Psoriasis Area and Severity Index.

Figure 3. Roflumilast Provided Durable Improvement in IGA



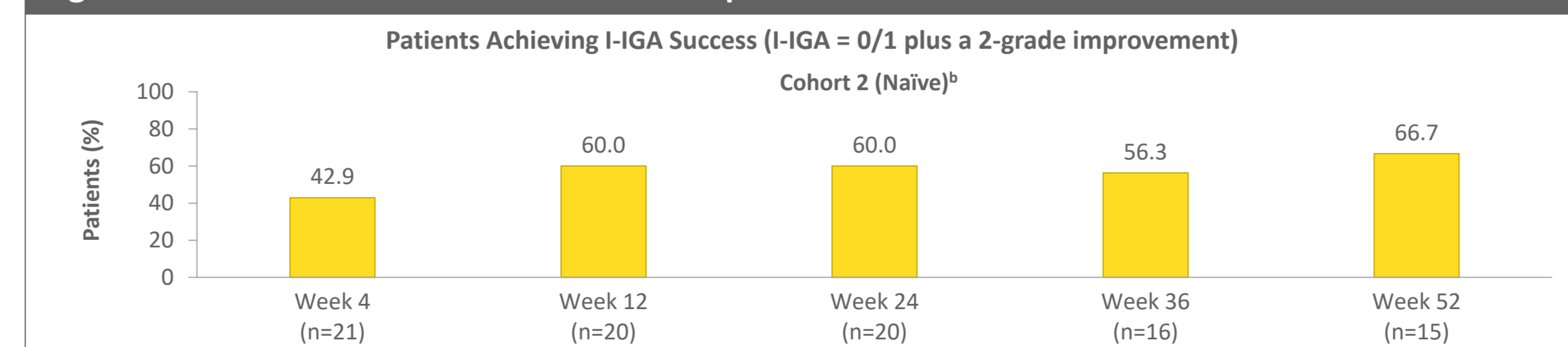
No imputation of missing values. Baseline is defined as the last observation prior to the first dose of ARQ-151 cream in either the ARQ-151-201 or ARQ-151-202 study. IGA: Investigator Global Assessment.

Figure 4. The Proportion of Patients Achieving IGA Success With Roflumilast Was Consistent Over Time



IGA: Investigator Global Assessment.

Figure 5. Roflumilast Provided Consistent Improvement of I-IGA^a



^aCollected post-baseline for patients with a severity of at least mild. ^bCohort 1 not shown because I-IGA added as study amendment and numbers of patients evaluated are very small at each timepoint. I-IGA: Intertriginous Investigator Global Assessment.

- 94% of adverse events (AEs) were rated mild or moderate
- 97% of AEs were unrelated or unlikely to be related to treatment as determined by the investigator
- Rates of gastrointestinal and psychiatric AEs were low
- ≥97% of patients had no evidence of irritation per physician assessment at each visit

Table 2. Summary of AEs (Safety Population)

TEAE, n (%)	Cohort 1 Total (n=230)	Cohort 2 Total (n=102)	Overall Total (N=332)
Patients with any TEAE	104 (45.2)	60 (58.8)	164 (49.4)
Patients with any treatment-related TEAE	7 (3.0)	5 (4.9)	12 (3.6)
Patients with any SAE	10 (4.3)	2 (2.0)	12 (3.6)
- Any treatment-related SAE	0	0	0
Patients who discontinued study drug due to AE	11 (4.8)	2 (2.0)	13 (3.9)

TEAE defined as event with an onset on or after the date of the first study drug application in ARQ-151-202 study. AE: adverse event; SAE: serious adverse event; TEAE: treatment-emergent adverse event.

Table 3. Most Common AEs (>2% Overall)

TEAE, n (%)	Cohort 1 Total (n=230)	Cohort 2 Total (n=102)	Overall Total (N=332)
Upper respiratory tract infection/viral URTI	14 (6.1)	8 (7.8)	22 (6.6)
Urinary tract infection	9 (3.9)	4 (3.9)	13 (3.9)
Nasopharyngitis	8 (3.5)	5 (4.9)	13 (3.9)
Sinusitis/chronic sinusitis	3 (1.3)	6 (5.9)	9 (2.7)
Hypertension/essential hypertension	8 (3.5)	1 (1.0)	9 (2.7)
Arthralgia	7 (3.0)	1 (1.0)	8 (2.4)
Back pain	5 (2.2)	2 (2.0)	7 (2.1)
Cough	4 (1.7)	3 (2.9)	7 (2.1)

AE: adverse event; TEAE: treatment-emergent adverse event; URTI: upper respiratory tract infection.

CONCLUSIONS

- Patients with chronic plaque psoriasis need topical treatments that provide effective control of psoriasis with low incidence of side effects that can be used for long-term treatment
- In this phase 2 long-term safety study, roflumilast cream, an investigational, once-daily, nonsteroidal topical PDE-4 inhibitor, was well-tolerated with no new safety signals
 - Rates of discontinuations due to AEs and lack of efficacy were low
- Durable efficacy was observed and the effect was maintained through 52 weeks of treatment in this long-term safety study and up to 64 weeks including the phase 2b study
 - Similar durability of effect was observed in patients with intertriginous area involvement
- Once-daily roflumilast cream is a promising novel therapy for treating plaque psoriasis

REFERENCES

1. Dong C, et al. *J Pharmacol Exp Ther* 2016;358:413-422.
2. Lebwohl MG, et al. *N Engl J Med* 2020;383:229-239.

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DISCLOSURES

LSG, MJG, KAP, LKF, ML, DNA, JA-L, HCH, SEK, LHK, WJL, WKN, DS, and MZ are investigators and/or consultants for Arcutis Biotherapeutics, Inc. and received grants/research funding and/or honoraria; PB, RCH, LN, and DRB are or were employees of Arcutis Biotherapeutics, Inc. Additional disclosures provided on request.