

Roflumilast Cream 0.15% in Patients With Atopic Dermatitis: Individual Patient EASI Responses: Pooled INTEGUMENT-1 and INTEGUMENT-2 Phase 3 Trials

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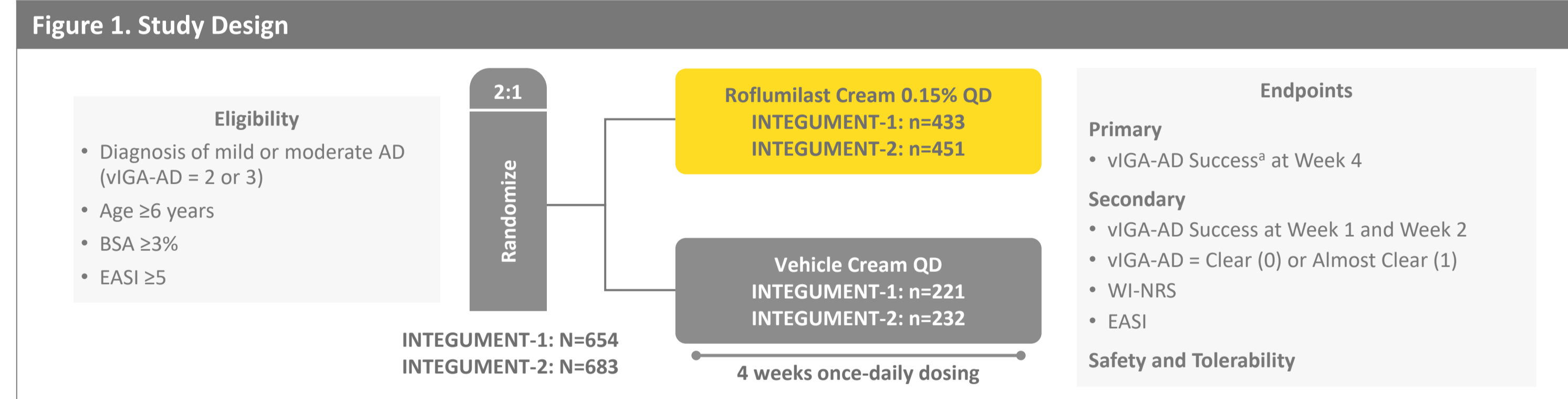
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INTRODUCTION

- The Eczema Area and Severity Index (EASI) is used to assess disease severity of atopic dermatitis (AD) in clinical trials¹
- Topical roflumilast is a once-daily, nonsteroidal treatment, with clinical trials demonstrating the efficacy and safety profile in cream and foam formulations for long-term management of psoriasis, seborrheic dermatitis, and AD²⁻⁴
- Pooled efficacy and safety results of two Phase 3 clinical trials (INTEGUMENT-1 and INTEGUMENT-2) assessing roflumilast cream 0.15% in patients with AD have been presented previously⁵
- Here we present individual patient EASI responses

METHODS

- INTEGUMENT-1 and INTEGUMENT-2 were identical, Phase 3, randomized, double-blind, vehicle-controlled, 4-week trials of once-daily roflumilast cream 0.15% in patients aged ≥6 years with AD (body surface area [BSA] affected: ≥3%; Figure 1)
- The primary efficacy endpoint was validated Investigator Global Assessment for Atopic Dermatitis (vIGA-AD) Success (score of Clear or Almost Clear plus ≥2-grade improvement from baseline) at Week 4
- EASI scores were evaluated as secondary endpoints



^avIGA-AD Success = Clear or Almost Clear plus 2-grade improvement from baseline.
AD: atopic dermatitis; BSA: body surface area; EASI: Eczema Area and Severity Index; QD: once daily; vIGA-AD: Validated Investigator Global Assessment for Atopic Dermatitis; WI-NRS: Worst Itch-Numeric Rating Scale.

RESULTS

- Baseline demographics and disease characteristics were similar in roflumilast- and vehicle-treated patients (Table 1)

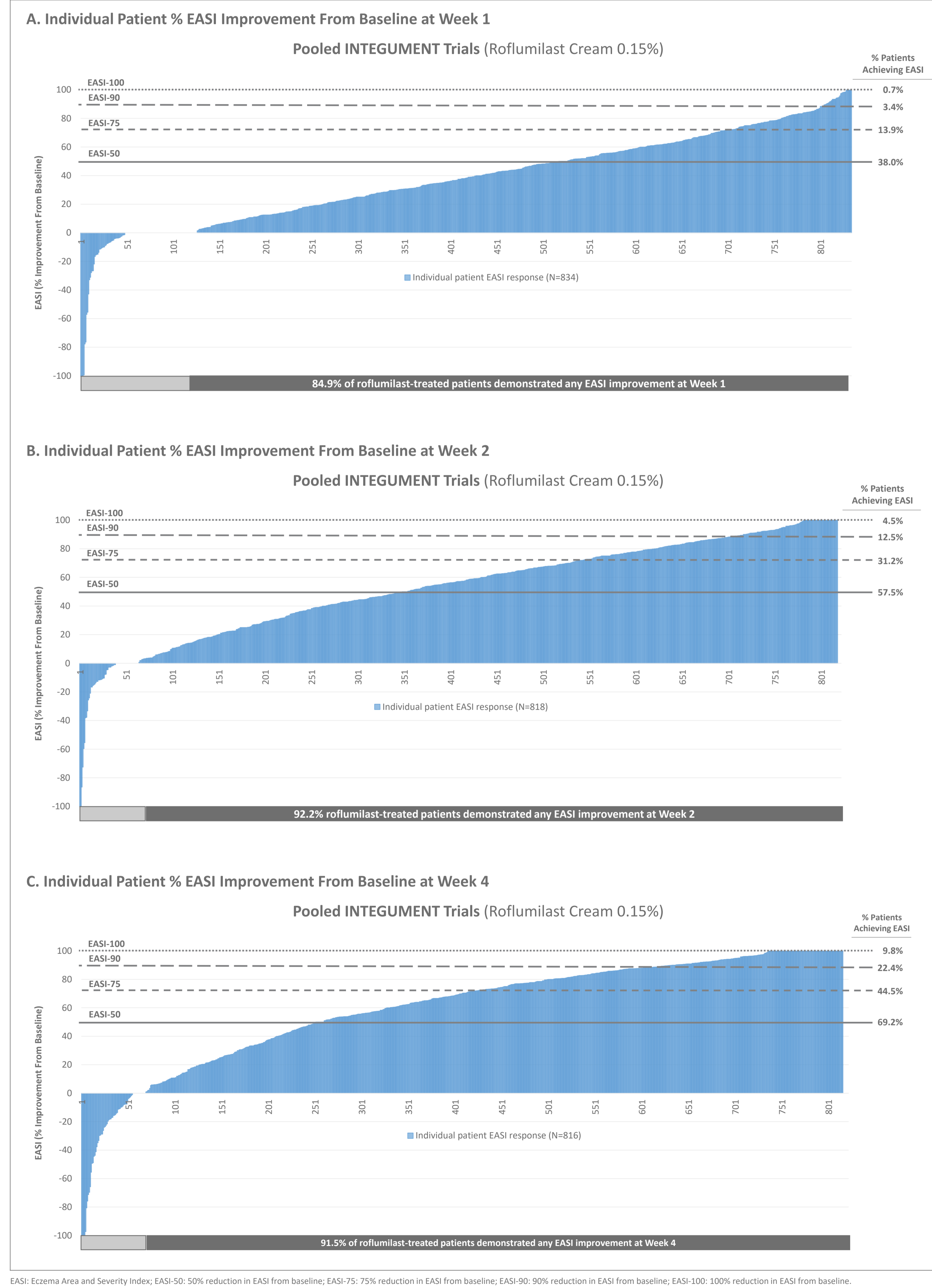
Table 1. Patient Baseline Demographics and Disease Characteristics

	Roflumilast Cream 0.15% (n=884)	Vehicle (n=453)
Age, years, mean (SD)	27.9 (19.4)	27.3 (19.0)
Sex, n (%)		
Male	395 (44.7)	181 (40.0)
Female	489 (55.3)	272 (60.0)
Baseline vIGA-AD,^a n (%)		
2 (mild)	211 (23.9)	112 (24.7)
3 (moderate)	673 (76.1)	341 (75.3)
EASI^b		
Mean (SD)	10.1 (5.7)	10.0 (5.2)
Median (range)	8.4 (4.4–52.5)	8.4 (3.4–37.9)
BSA		
Mean (SD)	13.5 (11.8)	13.9 (11.3)
Median (range)	9.7 (3.0–88.0)	10.0 (3.0–86.0)

^aA 5-point scale ranging from 0 (Clear) to 4 (Severe) assessing inflammatory signs of AD; ^bA 72-point scale based on AD disease intensity and total affected body area.
AD: atopic dermatitis; BSA: body surface area; EASI: Eczema Area and Severity Index; SD: standard deviation; vIGA-AD: Validated Investigator Global Assessment for Atopic Dermatitis.

- At Week 4, statistically significantly more roflumilast- than vehicle-treated patients achieved:
 - vIGA-AD Success (31.3% vs 14.1%; $P<0.0001$)⁵
 - vIGA-AD of Clear or Almost Clear (41.1% vs 21.4%; $P<0.0001$)⁵
 - Improvements in itch were observed 24 hours after first application and were greater than vehicle ($P<0.0001$)⁵
- At the first posttreatment time point evaluated (Week 1; Figure 2A), 84.9% of roflumilast-treated patients had a measurable improvement in EASI
 - At Week 4, 92% of roflumilast-treated patients had a measurable improvement in EASI
- Based on observed data (ie, no imputation of missing data), differences favoring roflumilast over vehicle were observed at Week 4 for percentages of patients achieving reduction in EASI:
 - Percentage achieving 50% reduction in EASI: 69.2% vs 44.4% ($P<0.0001$)
 - Percentage achieving 75% reduction in EASI: 44.5% vs 21.2% ($P<0.0001$)
 - Percentage achieving 90% reduction in EASI: 22.4% vs 8.6% ($P<0.0001$)
 - Percentage achieving 100% reduction in EASI: 9.8% vs 4.8% ($P<0.002$)
- Individual EASI responses in roflumilast-treated patients are illustrated in Figures 2A-C

Figure 2. Individual Patient % EASI Improvement From Baseline



EASI: Eczema Area and Severity Index; EASI-50: 50% reduction in EASI from baseline; EASI-75: 75% reduction in EASI from baseline; EASI-90: 90% reduction in EASI from baseline; EASI-100: 100% reduction in EASI from baseline.

- Patient photographs demonstrating disease improvement over time are shown in Figure 3

Figure 3. Changes in a Patient With AD Treated With Roflumilast Cream 0.15%



AD: atopic dermatitis; EASI: Eczema Area and Severity Index; IGA: Investigator Global Assessment; WI-NRS: Worst Itch-Numeric Rating Scale.

SAFETY

- Roflumilast cream demonstrated low rates of application site adverse events (AEs), treatment-related AEs, and discontinuations due to AEs, comparable with vehicle
- On local tolerability assessments, >95% of investigators reported no evidence of irritation at any time point
- >90% of patients reported no or mild sensation after the first application of roflumilast cream 0.15% and subsequent assessment time points on patient-rated local tolerability assessments

CONCLUSIONS

- Roflumilast cream 0.15% provided greater improvement in vIGA-AD Success, vIGA-AD of Clear or Almost Clear, Worst Itch-Numeric Rating Scale, and EASI versus vehicle in patients with AD in two Phase 3 trials
 - Improvements in itch were observed 24 hours after first application and were greater than vehicle
 - 85% of patients treated with roflumilast cream 0.15% demonstrated any improvement in EASI score by Week 1 and 92% of patients by Week 4
- Safety and tolerability were favorable, with nearly all roflumilast- and vehicle-treated patients reporting no or mild sensation at the application site by Week 4

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ACKNOWLEDGMENTS

- This study was supported by Arcutis Biotherapeutics, Inc.
- Thank you to the investigators and their staff for their participation in the trial
- We are grateful to the study participants and their families for their time and commitment
- Writing support was provided by Ashley Oney, MD, and Lauren Ramsey, PharmD, Alligent Biopharm Consulting LLC, and funded by Arcutis Biotherapeutics, Inc.

DISCLOSURES

EJS, LFE, JDR, MG, HCH, LK, KAP, and AAH are investigators and/or consultants for Arcutis Biotherapeutics, Inc. and received grants/research funding and/or honoraria; DK, DHC, PB, DRB, and RCH are employees of Arcutis Biotherapeutics, Inc. Additional disclosures provided on request.