



Long-Term Efficacy and Safety of Epicutaneous Immunotherapy in Peanut-Allergic Toddlers: EPITOPE Open-Label Extension (EPOPEX) End-of-Study Results

Matthew Greenhawt, MD, Julie Wang, MD, George Du Toit, MBBCh, Michael O'Sullivan, MD, Terri Brown-Whitehorn, MD, Timothée Bois, MSc, Katharine J. Bee, PhD, Todd D. Green, MD, Hugh A. Sampson, MD, A. Wesley Burks, MD

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Disclosures

Matthew Greenhawt, MD, MBA, MSc

Chief Medical Officer
Asthma and Allergy Foundation of America, Arlington, VA

Disclosures: Dr Greenhawt is an employee of the Asthma and Allergy Foundation of America; is a consultant for Aquestive; is a member of physician/medical advisory boards for DBV Technologies, Takeda, Novartis, Aquestive, ALK-Abelló, Bryn Pharma, Genentech, and Prota Therapeutics; is a speaker for Genentech and ARS Pharma; is an unpaid member of the scientific advisory council for the National Peanut Board and medical advisory board of the International Food Protein-Induced Enterocolitis Syndrome Association; is a member of the Brighton Collaboration Criteria Vaccine Anaphylaxis 2.0 working group; is the senior associate editor for the *Annals of Allergy, Asthma, and Immunology*, and is member of the Allergy Immunology Joint Taskforce on Practice Parameters.

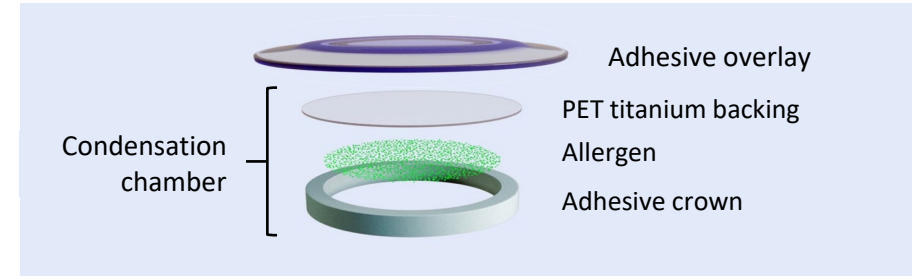
Background: Epicutaneous Immunotherapy (EPIT) With the VIASKIN[®] Peanut Patch (VP250)

- With limited treatment options for peanut allergy,^{1,2} there is a strong unmet need for additional approaches, particularly those with the potential for disease modification early in life
- EPIT with VP250 involves the administration of a patch containing 250 µg peanut protein (~1/1000 of 1 peanut kernel) to intact skin to induce desensitization³⁻⁷

Designed to be a single fixed dose, without dose-related restrictions or treatment disruptions based on daily activities, illness, or other factors required, as noted across multiple clinical trials

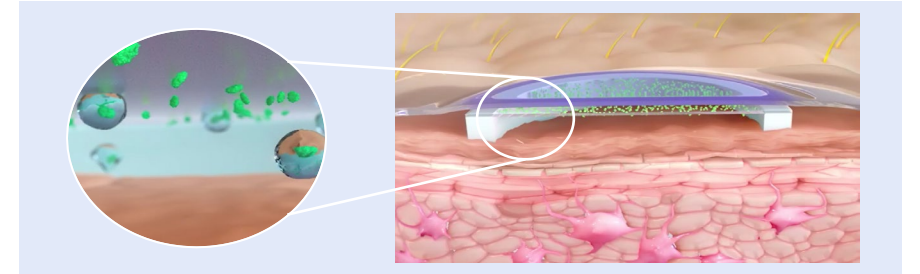


VIASKIN Peanut Patch (VP250)



Condensation Chamber

Formed by adhesive crown, allergen, and titanium backing, secured by adhesive overlay



Allergen Solubilization

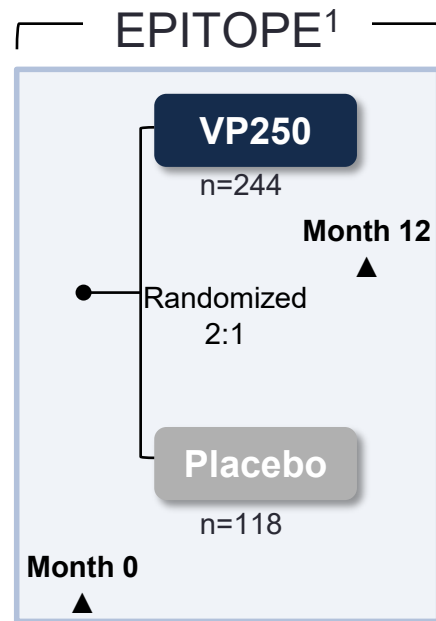
Occurs within condensation chamber when natural epidermal water loss solubilizes dry antigen on titanium backing

PET, positron emission tomography.

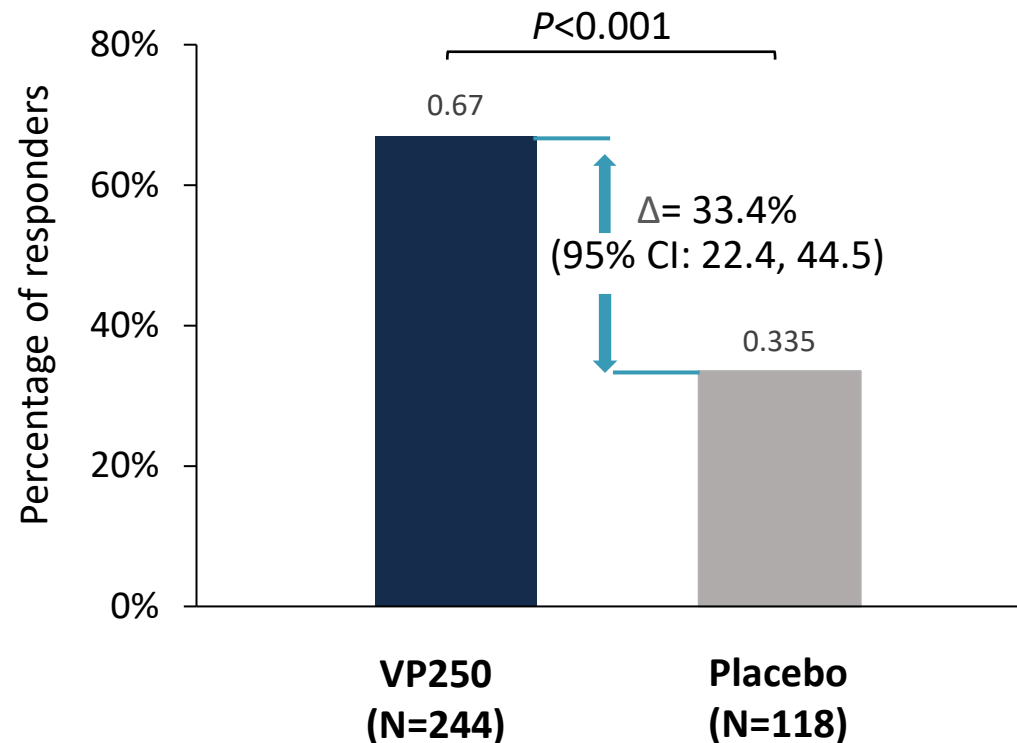
1. Dantzer JA, Kim EH. *J Allergy Clin Immunol Pract.* 2024;12(3):546-552. 2. Capucilli P et al. *Ann Allergy Asthma Immunol.* 2020;124(5):459-465. 3. Fleischer DM et al. *JAMA.* 2019;321(10):946-955. 4. Fleischer DM et al. *J Allergy Clin Immunol.* 2020;146(4):863-874. 5. Pongracic JA et al. *J Allergy Clin Immunol Pract.* 2022;10(7):1864-1873.e10. 6. Wang J, Sampson HA. *Pediatr Allergy Immunol.* 2018;29(4):341-349. 7. Greenhawt M et al. *N Engl J Med.* 2023;388(19):1755-1766.

VIASKIN peanut patch is an investigational agent, and it has not yet been approved by the US FDA or any other regulatory authority.

Background: Efficacy and Safety of 12 Months of VP250 in Toddlers Aged 1 Though 3 Years (EPITOPE)



Primary Endpoint: Treatment Responder* Rates at Month (M) 12 DBPCFC



A significantly larger percentage of participants achieved the **primary endpoint** in the **VIASKIN peanut patch** group vs placebo

Key inclusion criteria for EPITOPE included baseline ED ≤ 300 mg, pslgE > 0.7 kU_A/L, and skin prick test ≥ 6 mm.

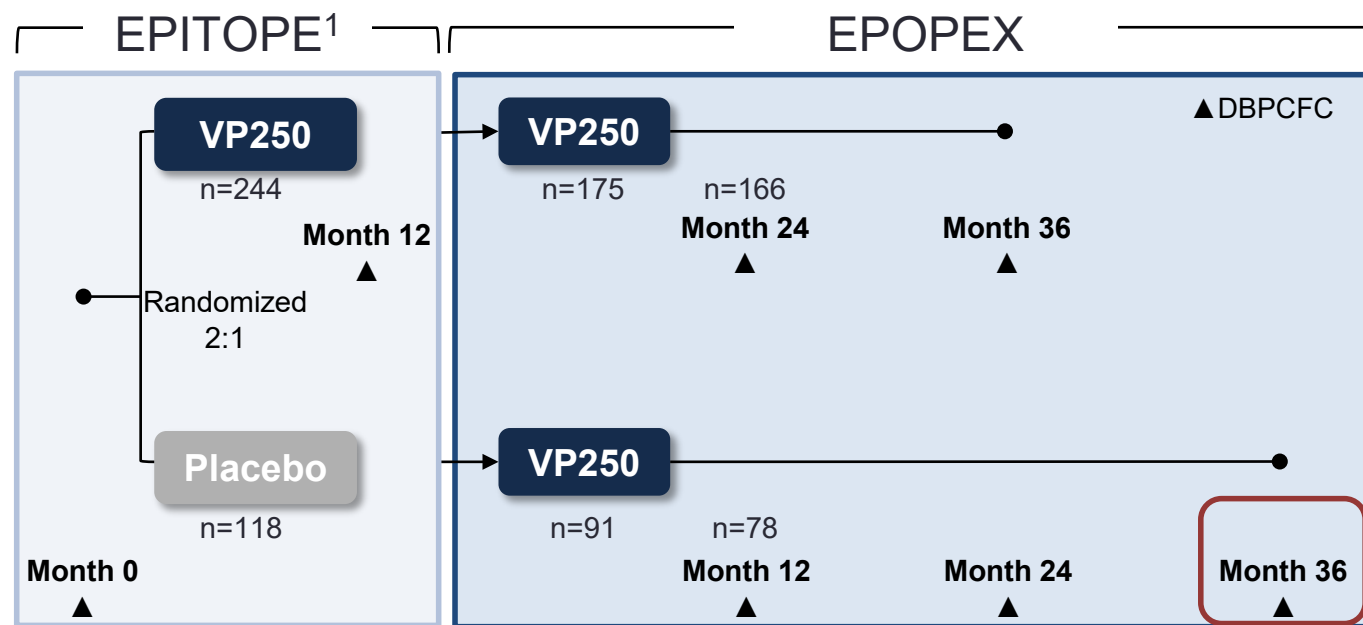
DBPCFC, double-blind, placebo-controlled food challenge; ED, eliciting dose; pslgE, peanut-specific immunoglobulin E.

*Treatment responders were defined as having a post-treatment ED ≥ 300 mg (if baseline ED ≤ 10 mg) or ED ≥ 1000 mg (if baseline ED > 10 to ≤ 300 mg).¹

1. Greenhawt M et al. *N Engl J Med*. 2023;388(19):1755-1766.

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Study Design: EPITOPE Open-Label Extension (EPOPEX) to Assess Long-Term Use of VP250



Efficacy and Safety Endpoints

- % of treatment responders* (as defined in EPITOPE¹)
- % reaching ED[†] ≥1000 mg and ≥2000 mg
- % of participants completing the DBPCFC without meeting stopping criteria[‡]
- Maximum severity of objective symptoms during DBPCFC
- Safety as assessed by treatment-emergent adverse event rates, including anaphylaxis

Objective

- To assess the efficacy and safety of up to 36 months of treatment with VP250 among peanut-allergic children who received placebo for 12 months in EPITOPE and crossed over to active treatment in the OLE

Key inclusion criteria for EPITOPE included baseline ED ≤300 mg, pslgE >0.7 kU_A/L, and skin prick test ≥6 mm.

DBPCFC, double-blind, placebo-controlled food challenge; ED, eliciting dose; OLE, open-label extension; pslgE, peanut-specific immunoglobulin E.

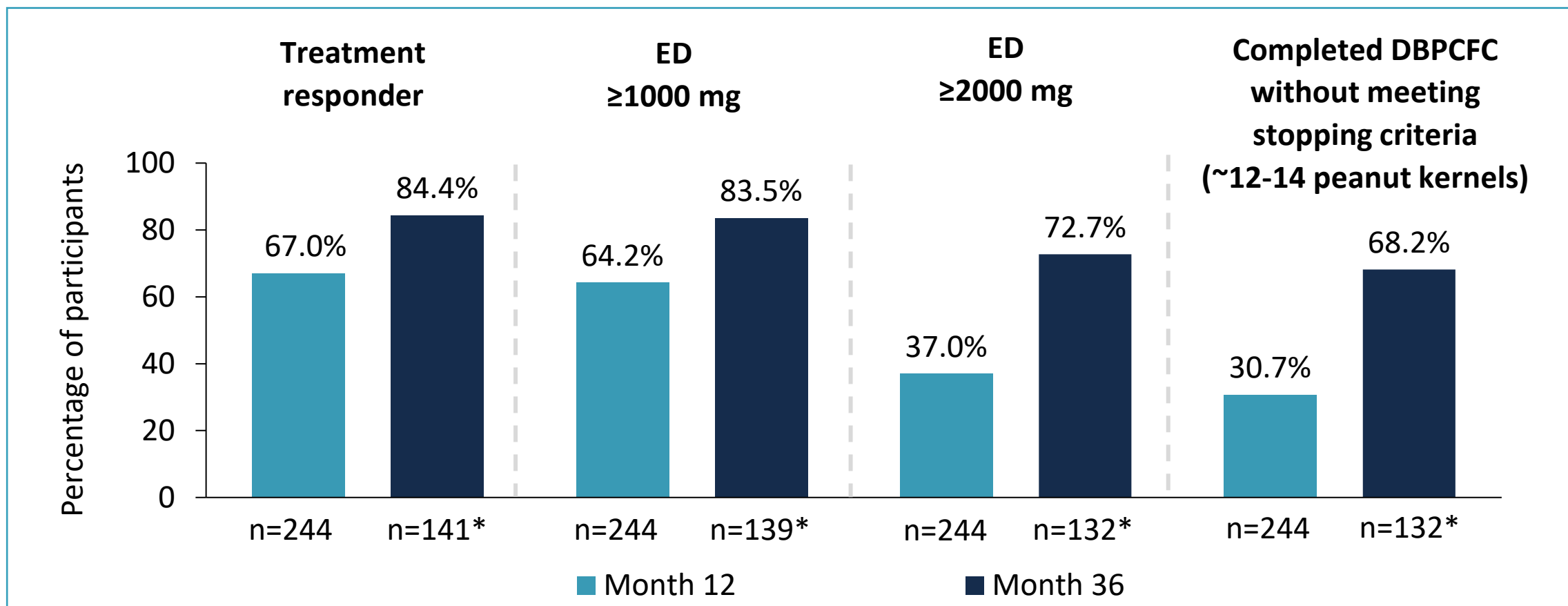
*Treatment responders were defined as having a post-treatment ED ≥300 mg (if baseline ED ≤10 mg) or ED ≥1000 mg (if baseline ED >10 to ≤300 mg).¹ ED defined as the dose at which allergic reaction signs or symptoms met the prespecified stopping criteria and ended the DBPCFC. [‡]DBPCFC conducted per PRACTALL guidelines using a standardized, blinded food matrix and were ended when signs or symptoms sufficiently met prespecified stopping criteria.

1. Greenhawt M et al. *N Engl J Med*. 2023;388(19):1755-1766.

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Three-Year Efficacy Results: VP250+VP250 Group

Increases across all efficacy endpoints were observed in the VP250+VP250 group at M36 vs M12 of treatment



DBPCFC, double-blind, placebo-controlled food challenge; ED, eliciting dose; M, month.

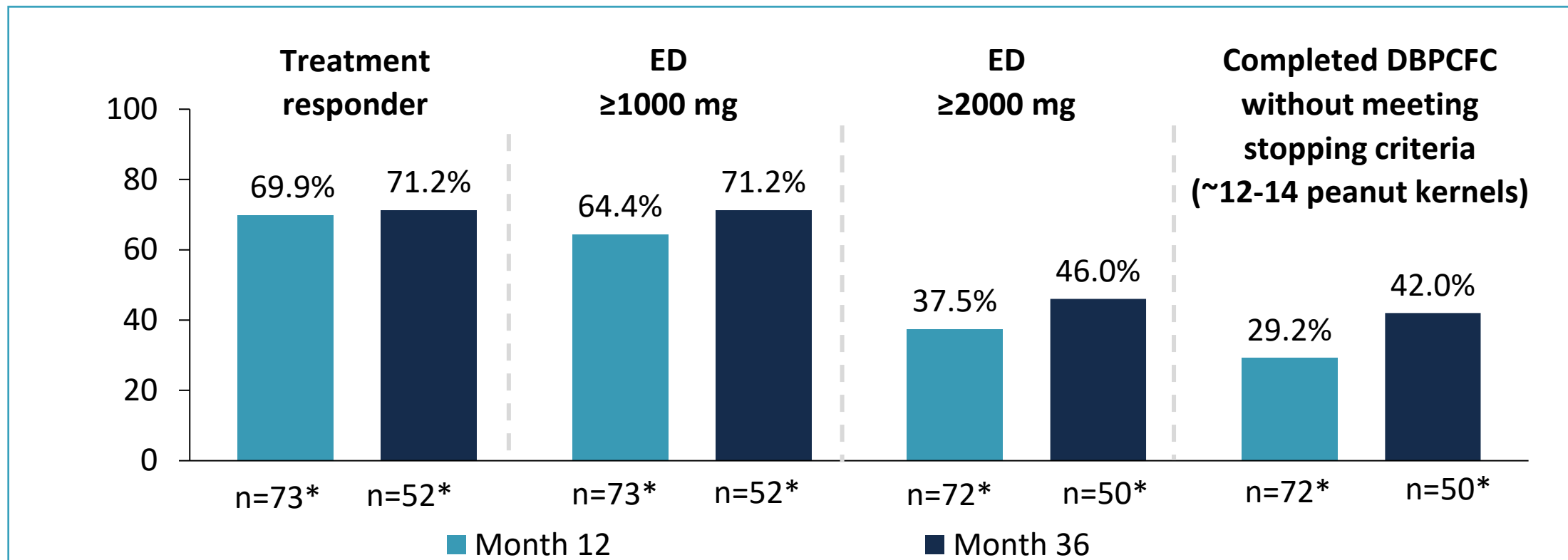
*Number of participants with non-missing endpoint.

Greenhawt M et al. Presented at: Eastern Food Allergy and Comorbidity Conference; January 9-12, 2025; Palm Beach, FL.

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Three-Year Efficacy Results: Placebo+VP250 Group

Results were consistent with the VP250+VP250 group, though lower in magnitude, possibly due to initiating treatment 1 year later and smaller n numbers



- The percentage of participants with severe reactions during the DBPCFC was nearly half at M36 vs M12 (10.0% vs 19.4%) and similar to that in the VP250+VP250 group at M36 (9.8%)

DBPCFC, double-blind, placebo-controlled food challenge; ED, eliciting dose; M, month.

*Number of participants with non-missing endpoint.

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Safety Results: Placebo+VP250 Group

- Consistent with safety results in the VP250+VP250 group,¹ there were no treatment-related anaphylactic reactions or treatment-related serious TEAEs beyond the first year of active treatment
- The frequency and severity of treatment-related local TEAEs decreased over the course of VP250 treatment

	Year 1 of active treatment	Year 3 of active treatment
	PBO+VP250	PBO+VP250
Adverse event category, n (%)	(N=91)	(N=65)
TEAEs	90 (98.9)	59 (90.8)
Treatment-related TEAEs	88 (96.7)	40 (61.5)
Serious TEAEs	2 (2.2)	4 (6.2)
Treatment-related serious TEAEs	1 (1.1)	0
TEAEs leading to permanent study treatment discontinuation	1 (1.1)	0
Treatment-related local TEAEs	86 (94.5)	40 (61.5)
Severe treatment-related local TEAEs	15 (16.5)	1 (1.5)
Anaphylactic reaction	6 (6.6)	1 (1.5)
Treatment-related anaphylactic reaction	1 (1.1)	0

PBO, placebo; TEAE, treatment-emergent adverse event.

1. Greenhawt M et al. Presented at: Eastern Food Allergy and Comorbidity Conference; January 9-12, 2025; Palm Beach, FL.

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Key Points

36 months of VP250 in young children showed continued increases in treatment effect, consistent with the VP250+VP250 group

Safety results were consistent with previous VP250 trials,¹⁻⁴ demonstrating a favorable safety profile with mainly local application-site reactions, which decreased over time, and low rates of treatment-related anaphylaxis

These data support the potential of VP250 as a long-term treatment option for peanut-allergic children, if approved