## Poster #379

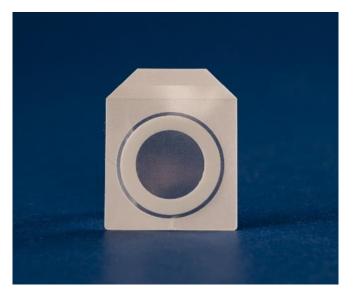
## Long-Term Safety Results of Epicutaneous Immunotherapy (EPIT) With Viaskin Peanut in Peanut-Allergic Children Aged 4 Through 11 Years in the Phase 3 PEOPLE Study

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## RATIONALE

- Viaskin, a patch-based technology platform, is currently being investigated for the treatment of peanut allergy. This novel approach to EPIT involves the administration of a peanut patch (VP250) containing 250 µg peanut protein to intact skin to induce desensitization (**Figure 1**)<sup>1-5</sup>
- The safety and efficacy of 12 months of EPIT with VP250 have been previously established in phase 3 randomized clinical trials<sup>1,5</sup>

### Figure 1: Viaskin Peanut Patch



- Maintenance treatment for allergen-specific immunotherapy has historically ranged from 3 to 5 years<sup>6</sup>; thus, it is important to characterize the long-term efficacy and safety of VP250<sup>2</sup>
- Interim 3-year results from PEOPLE (PEPITES Open-Label Extension) demonstrated<sup>2</sup>:
- In the per-protocol population, defined as individuals who completed 3 years of VP250 treatment, 51.8% vs 40.4% (difference: 11.3%; 95% CI: 2.8, 19.6) reached an eliciting dose (ED) ≥1000 mg peanut protein at Month 36 vs Month 12 double-blind, placebo-controlled food challenge (DBPCFC), respectively
- Daily VP250 was well tolerated; application-site reactions decreased in frequency and severity over time, and treatment adherence over 3 years was high (98.1%)

### OBJECTIVE

• The aim of this analysis was to assess long-term safety of EPIT with VP250 during the PEOPLE extension safety period (Years 4 and 5 of treatment)

### **METHODS**

- PEOPLE was an open-label trial designed to evaluate long-term efficacy and safety among children who previously participated in PEPITES (Figure 2)
- Participants were aged 4 through 11 years at study entry

al agent, and it has not yet been approved by the US FDA or any other regulatory authority

• In PEPITES, 356 peanut-allergic children aged 4 through 11 years were randomized 2:1 to VP250 or placebo for 12 months

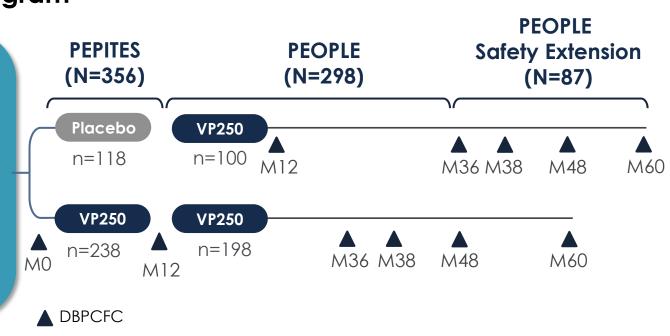
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### RESULTS

## Figure 2: Study Design Diagram

PEPITES and PEOPLE PEPITES: 356 peanut-allergic children (aged 4 through 11 years) **PEOPLE:** 298 children continued in PEOPLE 31 sites in Australia, Canada, Europe, and the US Key inclusion criteria: baseline ED  $\leq$ 300 mg, slgE >0.7 kU<sub>A</sub>/L, and skin orick test ≥6 mm (4- to 5-year-olds)  $r \ge 8 mm (6- to 11-year-olds)$ 



• In PEOPLE, 298 participants (93.0% of PEPITES completers) received VP250 daily for up to either an additional 48 months if they were in the active treatment arm of PEPITES (VP250+VP250) or 60 months if they were in the placebo arm of PEPITES (placebo+VP250), for up to 60 months of active treatment in all participants

 Safety outcomes included duration and severity of treatment-emergent adverse events (TEAEs) and serious TEAEs

- Adverse events (AEs) were assessed by investigators, with serious AEs defined according to the International Council for Harmonisation Good Clinical Practice
- Skin reactions were graded by the site investigator from 0 to 4, according to the European Academy of Allergy and Clinical Immunology and the Global Allergy and Asthma Excellence Network, where grade 0 is no skin reaction and grade 4 is erythema and vesicles
- Site investigators assessed the causality/relationship between the study drug and AE, including anaphylaxis, according to the causality criteria

• Of the 217 participants who completed PEOPLE Year 3, 87 (40%) participants continued treatment in the PEOPLE extension period of Years 4 and 5 (n=40 placebo+VP250, n=47 VP250+VP250); the safety data from these 87 participants over the 5-year study are included in this analysis (PEOPLE Extension Safety Population); 130 participants either elected not to continue or were ineligible

- Mean age at the extension enrollment was 11.1 years (range 8-16), and 56.3% of participants were male
- Overall mean treatment compliance remained high at 5 years at 93.1%
- Over 5 years, all participants in the PEOPLE Extension Safety Population experienced a TEAE, with the majority considered mild or moderate in severity; most TEAEs were local application-site reactions (**Table 1**)
- There was 1 serious treatment-related AE, which occurred in Year 1 of active treatment, and there were no permanent study discontinuations due to TEAEs
- Treatment-related TEAEs leading to epinephrine use occurred in 1/87 (1.1%) participants (Year 1 only)

• Treatment-related anaphylactic reactions occurred in 2/87 (2.3%) participants (Years 1 and 2 only)

### Table 1: TEAEs Over 5 Years of Active Treatment in the PEOPLE Extension Safety Population

### Category

Any TEAEs

TEAEs c related

TEAEs by s

Mild TEA

Moder

Severe

Severe TE related to

Serious TE

Conside to VP25

**TEAEs** lead permaner discontinu

**TEAEs** lead

VP250-indu

Severe local TE

TEAEs lead epinephri

> Conside to VP25

TEAE lead corticoste

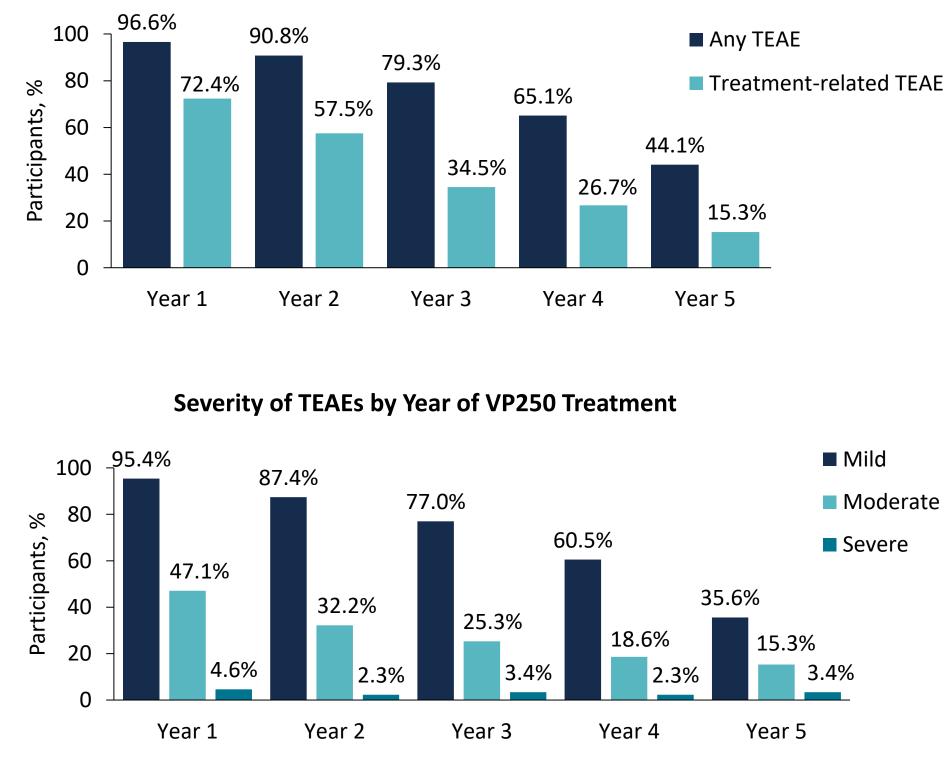
**TEAE** lead or inhaled intake

<sup>a</sup> At each year, percentages are based on the number of participants in the extension safety population who applied at least 1 patch during this year.

ν, n <b>(%)</b>	Year 1ª (n=87)	Year 2ª (n=87)	Year 3ª (n=87)	Year 4ª (n=86)	
S	84 (96.6)	79 (90.8)	69 (79.3)	56 (65.1)	26 (44.1)
considered d to VP250	63 (72.4)	50 (57.5)	30 (34.5)	23 (26.7)	9 (15.3)
severity					
AEs	83 (95.4)	76 (87.4)	67 (77.0)	52 (60.5)	21 (35.6)
ate TEAEs	41 (47.1)	28 (32.2)	22 (25.3)	16 (18.6)	9 (15.3)
TEAEs	4 (4.6)	2 (2.3)	3 (3.4)	2 (2.3)	2 (3.4)
EAEs considered o VP250	3 (3.4)	2 (2.3)	1 (1.1)	1 (1.2)	0
AEs	2 (2.3)	0	2 (2.3)	2 (2.3)	2 (3.4)
lered related 50	1 (1.1)	0	0	0	0
ding to ent VP250 uation	0	0	0	0	0
ding to death	0	0	0	0	0
duced local TEAEs	63 (72.4)	44 (50.6)	30 (34.5)	22 (25.6)	9 (15.3)
VP250-induced EAEs	3 (3.4)	2 (2.3)	1 (1.1)	1 (1.2)	0
ding to ine intake	4 (4.6)	4 (4.6)	6 (6.9)	2 (2.3)	1 (1.7)
lered related 50	1 (1.1)	0	0	0	0
ding to topical eroid	47 (54.0)	34 (39.1)	17 (19.5)	16 (18.6)	4 (6.8)
ding to systemic d corticosteroid	20 (23.0)	12 (13.8)	8 (9.2)	9 (10.5)	1 (1.7)

- related to VP250
- severity over time

### Figure 3: Incidence and Severity of TEAEs Over Time in PEOPLE Extension Safety Population (N=87)



### CONCLUSIONS

- of TEAEs
- Of this cohort, no participant reported treatment-related epinephrine use after Year 1 of PEOPLE (no use in Year 4 or 5)
- years of treatment



• Approximately 93% of participants experienced a TEAE considered

- Treatment-related TEAEs decreased over time: 63/87 (72.4%) in Year 1 to 9/59 (15.3%) in Year 5, as did the severity (Figure 3)

- The most commonly reported TEAEs related to VP250 were administration-site conditions, which decreased in frequency and

### Incidence of TEAEs by Year of VP250 Treatment

 87 participants entered the PEOPLE safety extension period • Trends over 5 years showed a decrease in the frequency and severity

• These data suggest that long-term VP250 treatment in children with peanut allergy has a favorable safety and tolerability profile, resulting in high treatment compliance, which may facilitate its use over multiple