



Lebrikizumab P2b Topline Results

March 18, 2019

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Executive Summary

- Clinical profile has the potential to significantly alter the treatment landscape in AD
- Selective inhibition of IL-13 with lebrikizumab could be the best approach to treating AD
- All three doses of lebrikizumab met primary endpoint with statistical significance
- Robust dose-dependent efficacy across multiple measures
- Well-tolerated with safety profile consistent with prior studies
- Results warrant rapid advancement to Phase 3 program; planned by end of 2019 after End-of-Phase 2 meeting with FDA

Lebrikizumab: Compelling Investment Thesis



- Biologic atopic dermatitis therapy is a large and growing market
 - Predicted to be as large as approximately \$14.8 billion by 2025¹
 - Need for new, differentiated therapies



- Lebrikizumab offers a differentiated mechanism of action that has the potential to be a best-in-disease therapy for treating AD
 - IL-13/IL-4 class is a validated, targeted approach



- Phase 2b study confirms thesis that lebrikizumab may potentially offer a compelling combination of efficacy, safety, tolerability, convenience and ease-of-use

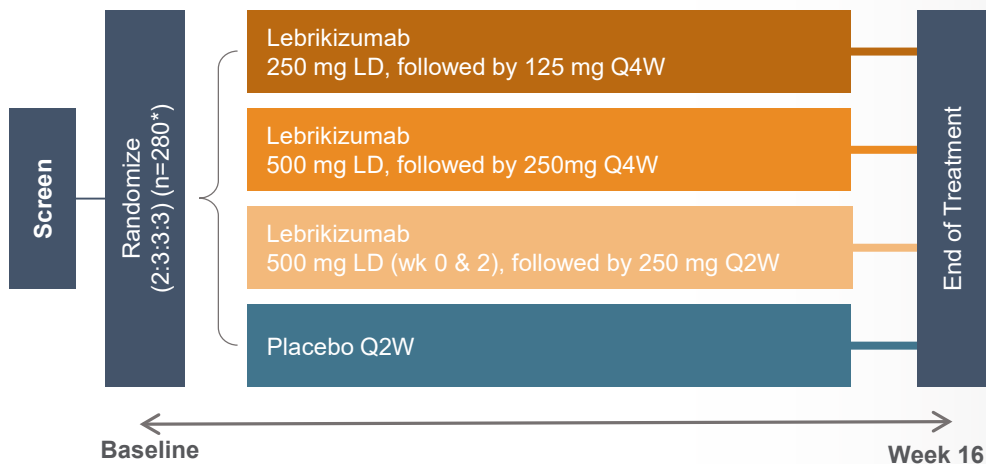


- Phase 2b topline results announced on March 18, 2019
- Planned Phase 3 initiation by end of 2019, after End-of-Phase 2 meeting; expect topline data first half 2021²

1. Decision Resources (2017); 2. Estimate provided as of March 18, 2019. Expected topline results timing assumes Phase 3 initiation by year-end 2019

Phase 2b Study to Optimize Product Profile

Study Design:



Abbreviations: Q2W (every 2 weeks), Q4W (every 4 weeks), TCS (topical corticosteroids), IGA (Investigator Global Assessment), EASI (Eczema Area and Severity Index), NRS (numerical rating scale). Over the 16-week period, approximately 56% in the placebo arm discontinued compared to approximately 22% across the lebrikizumab dosing arms.



Study objectives

- Optimize dosing regimen to enhance product profile
- Define monotherapy profile



Key inclusion criteria

- Adults with moderate-to-severe AD not adequately controlled with topicals or for whom topical treatment is medically inadvisable
- TCS washout prior to randomization



Key endpoints (response rates at week 16)

- Primary endpoint
 - Percent change in EASI
- Secondary endpoints include:
 - ≥ 2 -point reduction from baseline and a final IGA score of 0/1
 - EASI-50, EASI-75, EASI-90
 - Pruritus NRS

Study Protocol

Inclusion criteria

- Chronic AD has been present for ≥ 1 year before screening visit
- EASI score ≥ 16 at screening and baseline visits
- IGA score of 3 or 4 (scale of 0 to 4) at screening and baseline visits
- $\geq 10\%$ body surface area (BSA) of AD involvement at screening and baseline visits

Statistical analysis considerations

- Statistical tests were two sided and performed at the 0.05 level of significance
- The primary method of handling missing efficacy data was the Markov Chain Monte Carlo (MCMC) multiple imputation

Rescue treatment

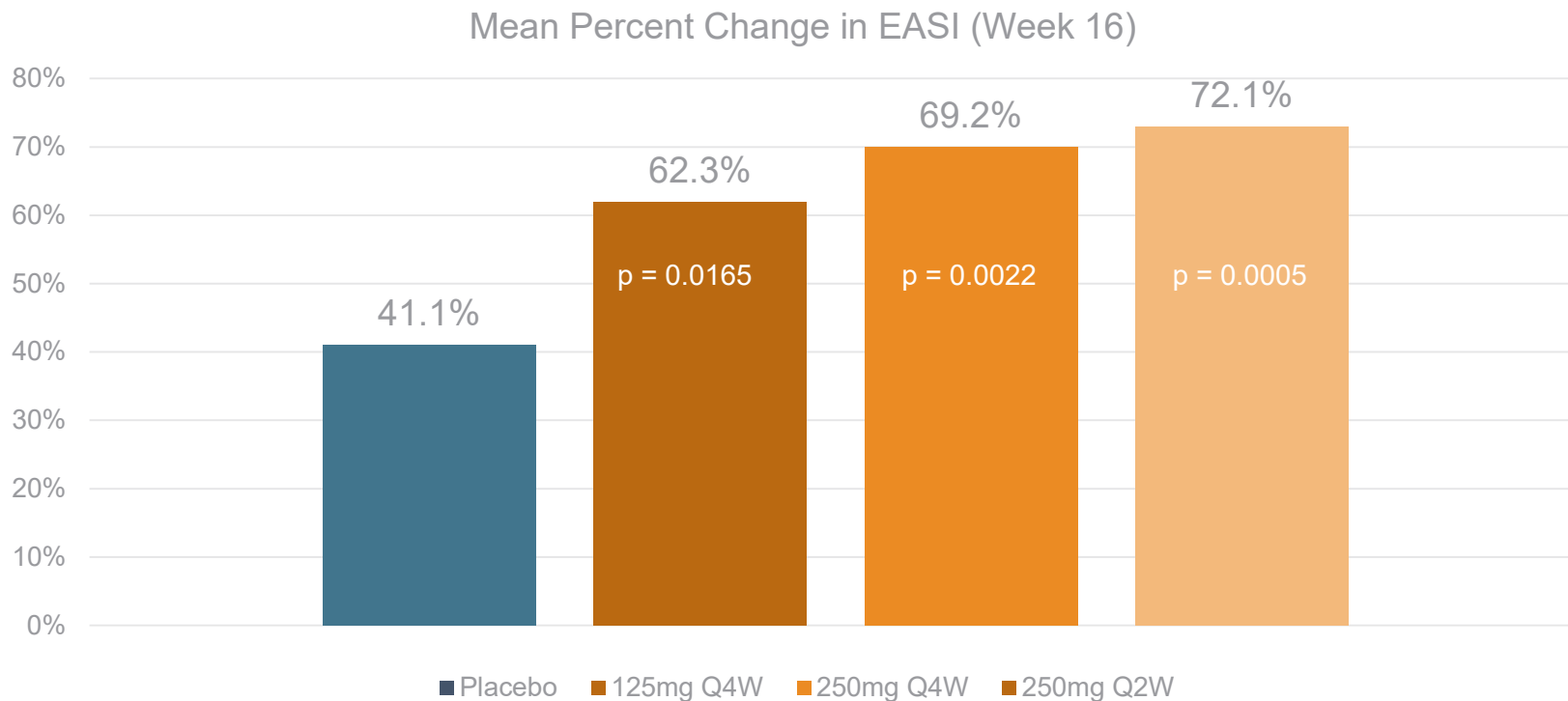
- Patients were permitted rescue therapy, including topical corticosteroids, in all arms recommended by the investigator
- If patients used systemic therapy, they had to discontinue the treatment
- A total of approximately 13% and 35% received rescue therapy in the treatment and placebo arms, respectively

Select Baseline Disease Characteristics

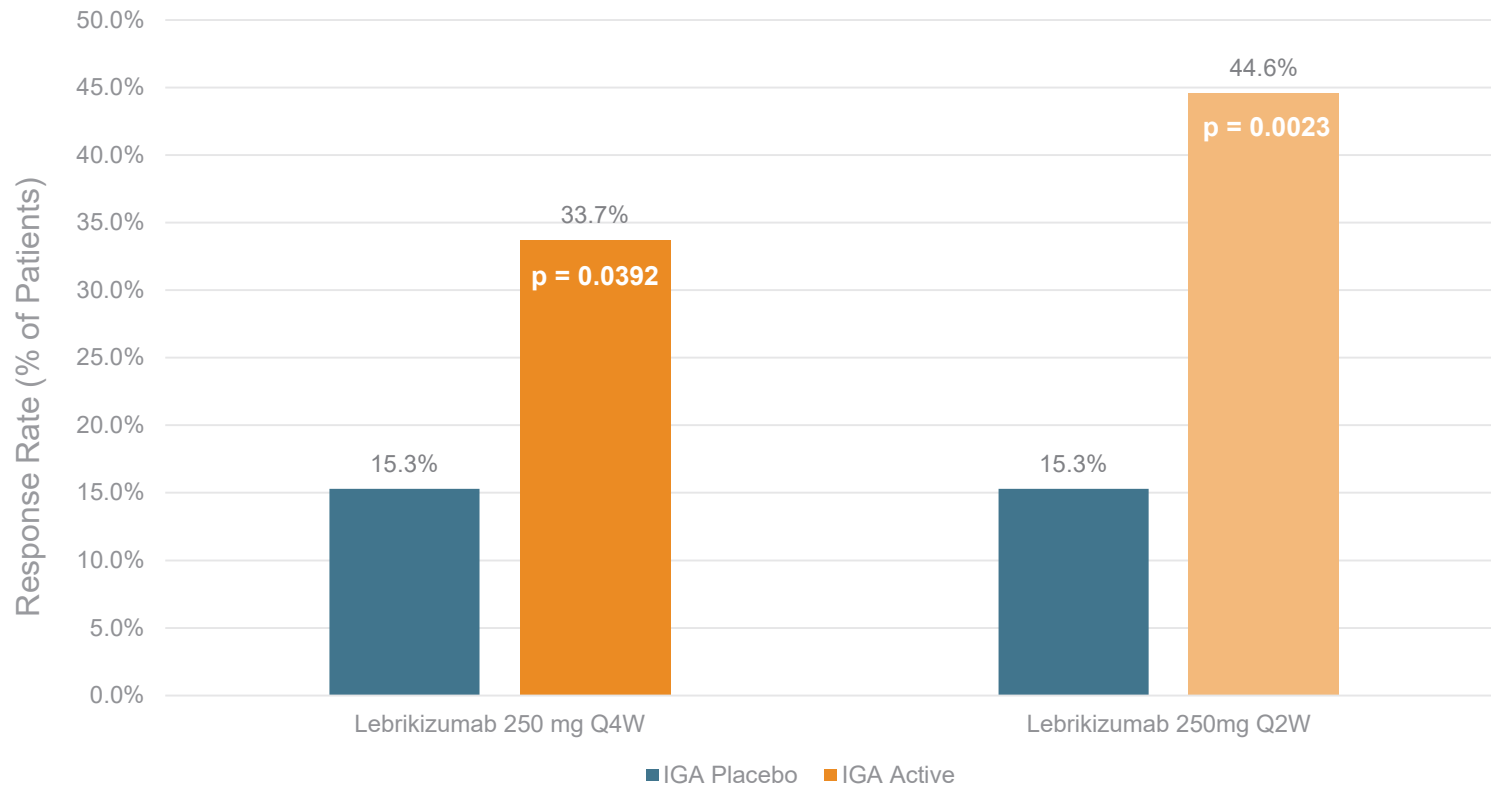
		125 mg Q4W (n=73)	250 mg Q4W (n=80)	250 mg Q2W (n=75)	Placebo (n=52)
EASI Score	n	73	80	75	52
	Mean	29.852	26.146	25.477	28.903
	SD	13.5174	10.1346	11.2057	11.7900
IGA (%)	n	73	80	75	52
	3 - Moderate	43 (58.9%)	54 (67.5%)	53 (70.7%)	32 (61.5%)
	4 - Severe	30 (41.1%)	26 (32.5%)	22 (29.3%)	20 (38.5%)
BSA	n	73	80	75	52
	Mean	45.5	41.1	39.4	46.5
	SD	24.49	20.89	21.49	22.68
Pruritus Score	n	68	77	69	49
	Mean	7.6	7.1	7.6	7.4
	SD	1.98	2.44	1.87	2.42
DLQI Score	n	72	80	75	52
	Mean	14.5	14.2	14.1	14.1
	SD	7.10	7.66	6.94	7.07

Dermira data on file

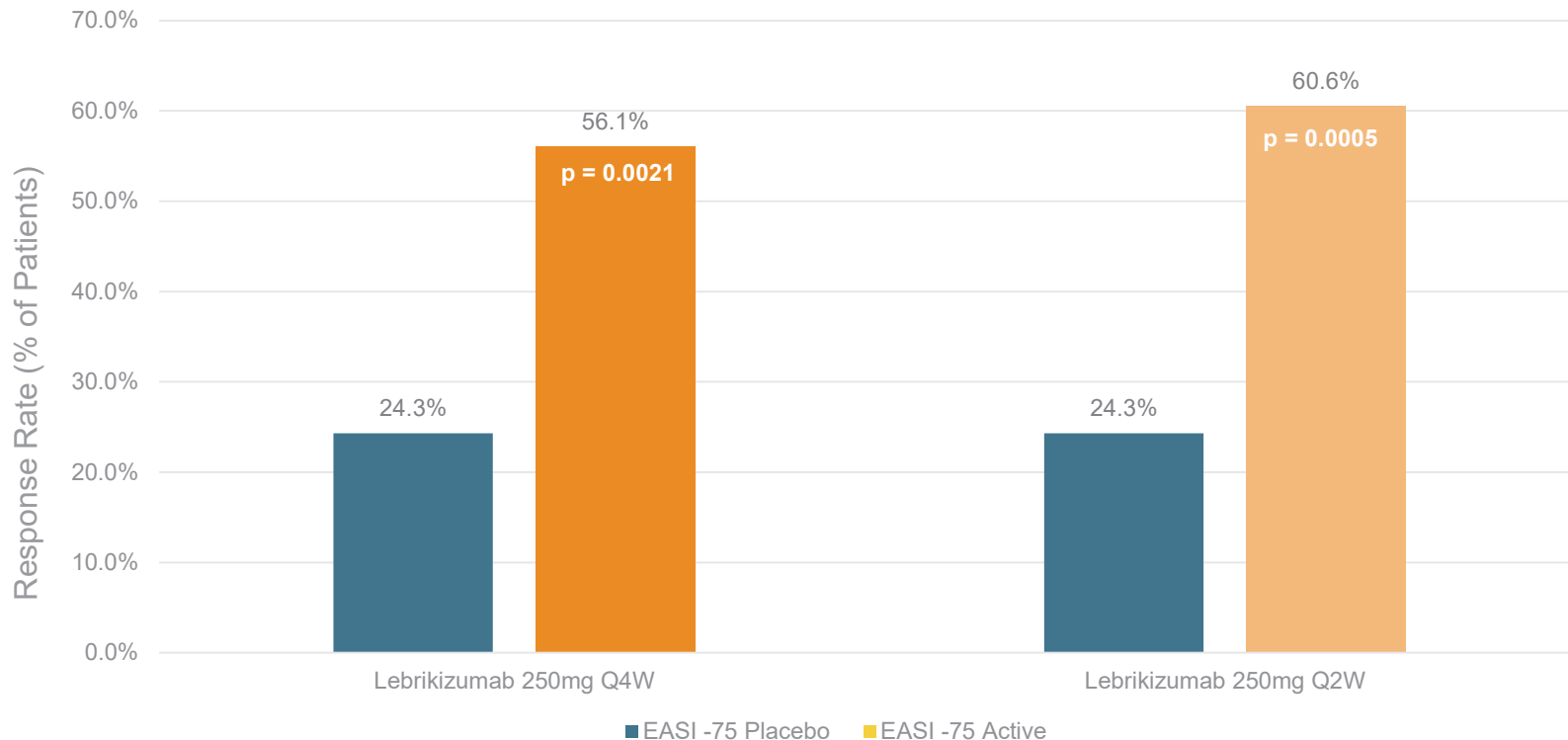
Primary Endpoint: EASI Improvement



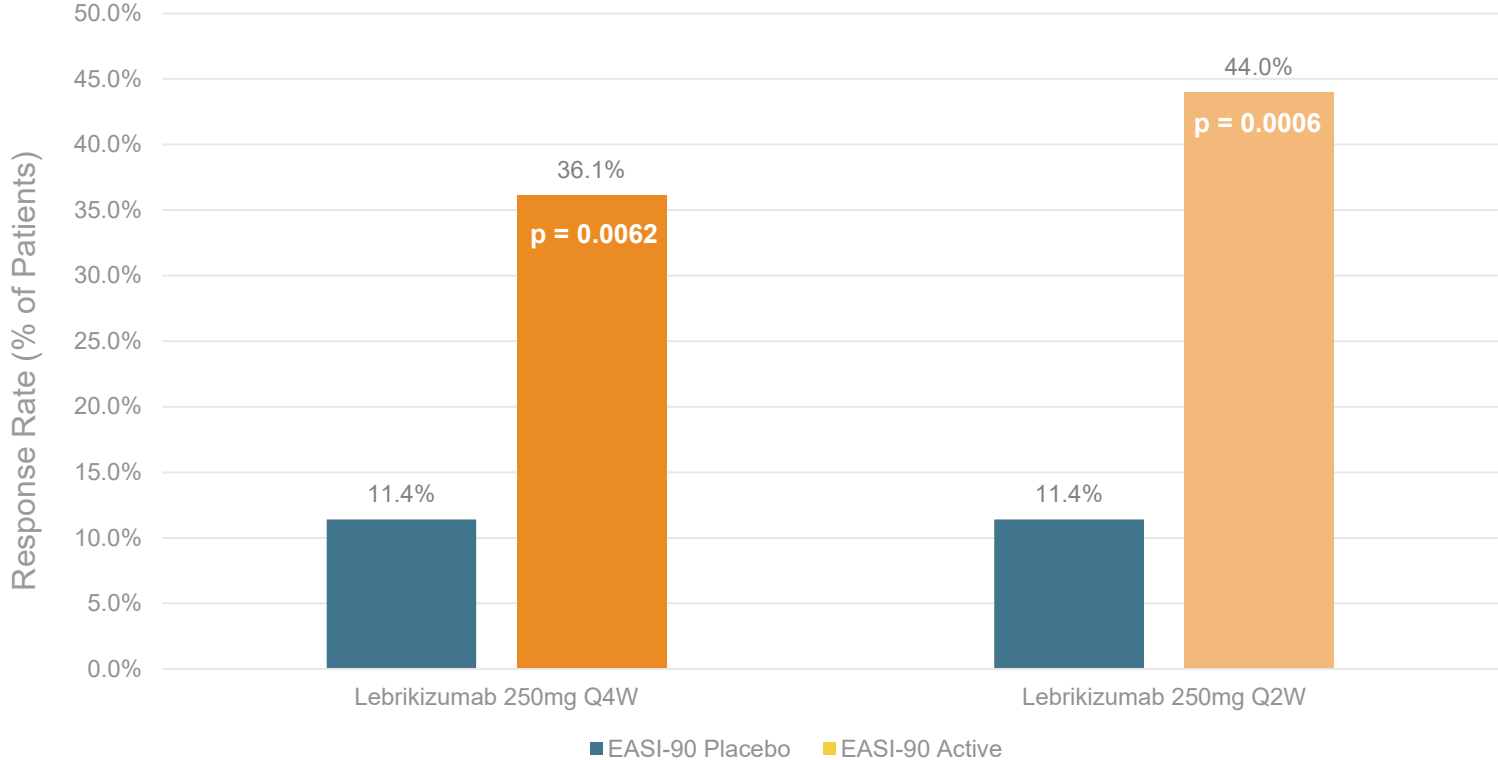
Efficacy: Investigators Global Assessment



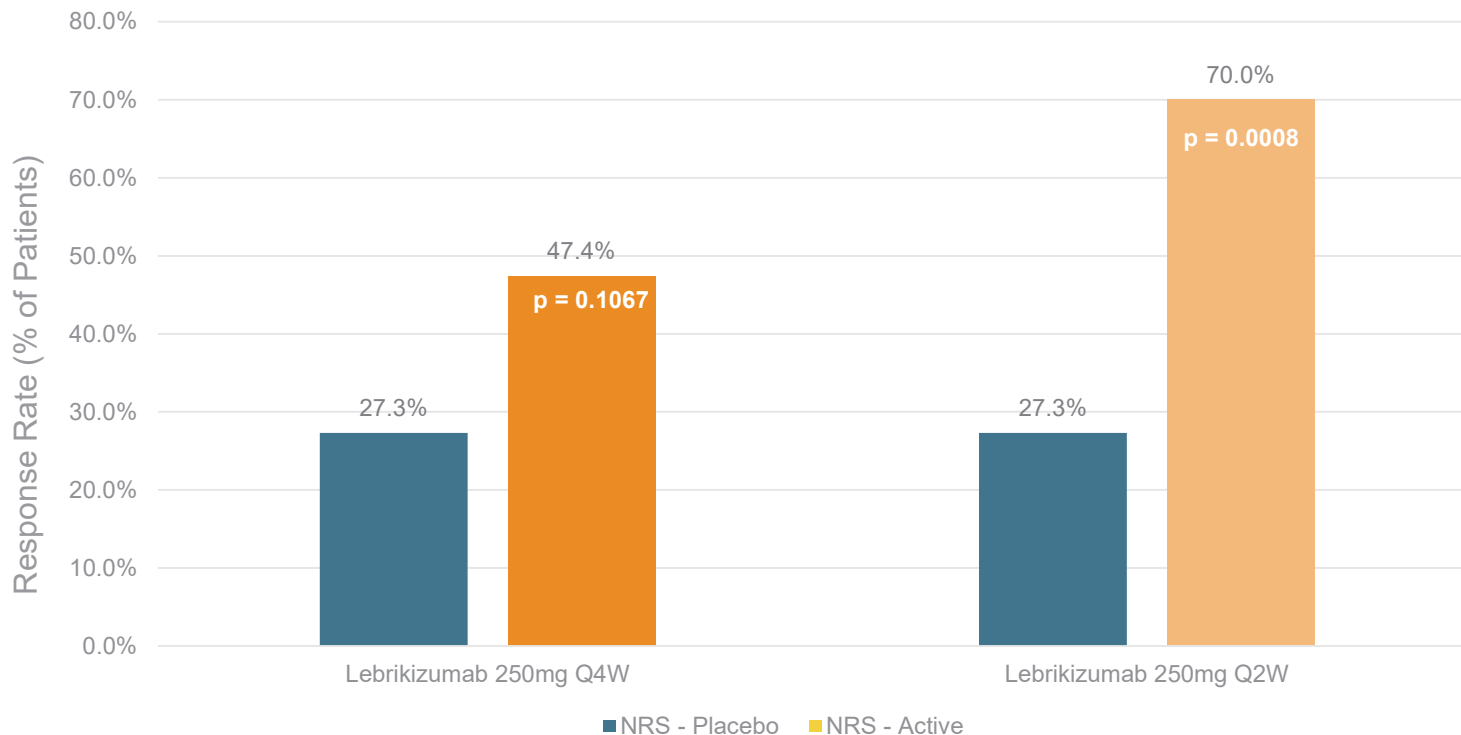
Efficacy: EASI-75



Efficacy: EASI-90



Pruritus: NRS, ≥ 4 Point Improvement



All data reported are observed values.

Adverse Events: Lebri Was Well Tolerated

Most Frequent Adverse Events	Placebo (n=52)	125mg Lebri Q4W (n=73)	250mg Lebri Q4W (n=80)	250mg Lebri Q2W (n=75)	All Lebri (n=228)
Upper Respiratory Tract Infection	3 (5.8%)	6 (8.2%)	9 (11.3%)	2 (2.7%)	17 (7.5%)
Nasopharyngitis	2 (3.8%)	4 (5.5%)	2 (2.5%)	9 (12.0%)	15 (6.6%)
Fatigue	0	0	4 (5.0%)	0	4 (1.8%)
Headache	3 (5.8%)	2 (2.7%)	1 (1.3%)	4 (5.3%)	7 (3.1%)
Injection Site Pain	1 (1.9%)	0	3 (3.8%)	4 (5.3%)	7 (3.1%)
Herpes Zoster	0	0	1 (1.3%)	1 (1.3%)	2 (0.9%)
Herpes Infections	0	2 (2.7%)	2 (2.5%)	1 (1.3%)	5 (2.2%)
Conjunctivitis	0	1 (1.4%)	3 (3.8%)	2 (2.7%)	6 (2.6%)

Dupilumab Profile Can Be Improved Upon

	Endpoints	Dupilumab – SOLO 1 ¹	Dupilumab – SOLO 2 ¹	Dupilumab – P2b ²
Efficacy	IGA: Score of 0 to 1, “Clear” or “Almost Clear”	38% vs. 10%	36% vs. 8%	30% vs. 2%
	Improvement in EASI Score	72% vs. 38%	67% vs. 31%	71% vs. 20%
	EASI-50	69% vs. 25%	65% vs. 22%	78% vs. 30%
	EASI-75	51% vs. 15%	44% vs. 12%	53% vs. 12%
	EASI-90	36% vs 8%	30% vs. 7%	30% vs. 3%
	Pruritus Improvement (NRS): \geq 4 point Improvement	41% vs. 12%	36% vs. 10%	NR
	% change in Peak Weekly Averaged Pruritus NRS	51% vs. 27%	47% vs. 18%	46% vs. 0.4%
Safety and Tolerability	Serious AE % AEs > 1% Incidence	Serious AEs: 3% vs. 5% Injection Site Reaction: 10% vs. 5% Conjunctivitis: 10% vs. 2% Oral Herpes: 4% vs. 2% Oral Herpes simplex virus infection: 2% vs. 1%	Data reported under SOLO 1 is combined safety from SOLO 1 and SOLO2	Serious AEs: 2% vs. 7% Injection Site Reaction: NR Conjunctivitis: 5% vs. 3% Oral Herpes: 5% vs. 0% Oral Herpes simplex virus infection: 3% vs. 0%
Dosing	Dosing Frequency and Loading	loading dose of 2 injections (600mg) followed by a maintenance dose of 1 injection (300mg) given <u>every two weeks (Q2W)</u>	loading dose of 2 injections (600mg) followed by a maintenance dose of 1 injection (300mg) given <u>every two weeks (Q2W)</u>	loading dose of 2 injections (600mg) followed by a maintenance dose of 1 injection (300mg) given <u>every two weeks (Q2W)</u>

1. NEJM 2016;375:2335-48, 2. Lancet 2016; 387; 40-52

Conclusions

- These data suggest that taking a selective approach to addressing IL-13 inhibition with lebrikizumab may be the best approach to treating AD
- Based on the compelling efficacy results observed, lebrikizumab may have the potential to be a truly differentiated therapy and may offer a best-in-disease treatment option for patients living with AD
- These data suggest that lebrikizumab may also be differentiated on its safety, tolerability and dosing profile
- Plan to have End-of-Phase 2 meeting with FDA and initiate Phase 3 program by end of 2019



Thank You

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