Bimekizumab Efficacy by Disease Duration in Patients with Moderate to Severe Hidradenitis Suppurativa: Week 48 Results from BE HEARD I & II

Objective

To present post hoc analyses assessing the impact of disease duration since diagnosis on bimekizumab (BKZ) efficacy in patients with moderate to severe hidradenitis suppurativa (HS) in two phase 3 trials.

Introduction

- Patients with HS can face a long delay to diagnosis, with an average time after symptom onset of seven to ten years.¹² Due to the progressive nature of HS, by the time of diagnosis most patients present with severe disease, which makes symptom management more difficult.^{3–5}
- Following diagnosis, patients may be treated with suboptimal therapies, allowing disease progression to continue.³⁴ Therefore, it is important that patients receive effective treatment early after diagnosis to improve outcomes.^{1,2}
- BKZ is a humanised IgG1 monoclonal antibody that selectively inhibits interleukin (IL)-17F in addition to IL-17A, which has demonstrated clinical efficacy in patients with moderate to severe HS in the phase 3 BE HEARD I & II trials.^{6–8}

Methods

- Data from the randomised, double-blind, PBO-controlled, multicentre BE HEARD I & II trials included initial (Weeks 0–16) and maintenance (Weeks 16–48) treatment periods.^{7,8} At baseline, patients were randomised 2:2:2:1 to BKZ 320 mg every 2 weeks (Q2W) to Week 48, BKZ 320 mg Q4W to Week 48, BKZ 320 mg Q2W to Week 16 then BKZ 320 mg Q4W to Week 48, or PBO to Week 16 then BKZ 320 mg Q2W to Week 48. In this analysis, BKZ-randomised patients are pooled across treatment arms for the BKZ Total group.
- The proportions of patients with a ≥50/75/90/100% HS Clinical Response (HiSCR50/75/90/100) are reported by lowest (<2.40 years) and highest (>10.87 years) guartiles of disease duration from diagnosis date, over the 48-week trial period.
- Data are reported primarily using the observed case (OC), with modified non-responder imputation (mNRI) also shown.
- For the mNRI analyses, patients who discontinued due to lack of efficacy/adverse events, or received systemic antibiotics identified as rescue medication for HS by the principal investigator, were considered non-responders; multiple imputation was used for all other missing data.

Results

- In BE HEARD I & II, 1,014 patients with moderate to severe HS were randomised; of these patients, 868 were randomised to BKZ and 146 to PBO. Of patients randomised to BKZ with disease duration <2.40 years. 62.7% and 37.3% had Hurley Stage II and III at baseline, respectively. Of patients randomised to BKZ with disease duration >10.87 years, 55.3% and 44.7% had Hurley Stage II and III at baseline, respectively (Table 1).
- At Week 16, a numerically higher proportion of BKZ and PBO-randomised patients achieved HiSCR50 and HiSCR75 responses in the group of patients with the lowest disease duration (<2.40 years) vs those with the highest disease duration (≥10.87 years) (Figure 1A, 1B & Table 2).
- Higher HiSCR50 and HiSCR75 response rates were both achieved for BKZ-randomised patients compared to PBO-randomised patients at Week 16 (Figure 1A, 1B).
- HiSCR responses were sustained or improved to Week 48, with patients in the lowest disease duration quartile of <2.40 years, again achieving markedly higher responses compared with patients in the upper quartile of \geq 10.87 years.
- At Week 48, patients randomised to PBO at baseline who switched to BKZ Q2W at Week 16 achieved similar HiSCR50/HiSCR75 responses to those on continuous BKZ from baseline (Figure 1A, 1B & Table 2).
- Similar trends were reported for the increasingly stringent HiSCR90 and HiSCR100 outcomes at both timepoints in the lowest vs highest duration quartiles (Figure 1C, 1D & Table 2). Higher response rates were seen in patients in the <2.40-year quartile than in the ≥10.87-year quartile.

Conclusions

BKZ demonstrated clinical efficacy for patients in both the lowest and highest disease duration quartiles compared with PBO at Week 16. Results with BKZ were sustained across 48 weeks of treatment.

Treatment in patients with shorter disease duration resulted in higher response rates than for those with longer disease duration, even with these studies exclusively enrolling patients with moderate to severe disease, emphasising the importance of timely treatment with effective therapies following diagnosis of HS.

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Baseline characteristics

-	Disease duration <2.40 years		Disease duration ≥10.87 years		Overall	_			HiSCR50		HiSCR75		HiSCR90		HiSCR100	
	BKZ 320 mg Total N=220	PBO /BKZ 320 mg Q2W N=33	BKZ 320 mg Total N=206	PBO/ BKZ 320 mg Q2W N=48	All patients N=1,014	Lowest duration, n	Highest duration, n	<2.40 years %	≥10.87 years %	<2.40 years %	≥10.87 years %	<2.40 years %	≥10.87 years %	<2.40 years %	≥10.87 years %	
Age, years, mean <u>+</u> SD	34.9 <u>+</u> 13.4	38.3 <u>+</u> 15.4	41.2 <u>+</u> 10.4	42.3 ± 10.4	36.6 <u>+</u> 12.2	Week 16										
Sex, female, n (%)	112 (50.9)	12 (36.4)	133 (64.6)	31 (64.6)	576 (56.8)	BKZ 320 mg Q2W/Q2W (N=288)	77	68	69.8	52.2	51.6	33.1	27.2	19.5	23.0	12.2
Racial group, white, n (%)	179 (81.4)	28 (84.8)	165 (80.1)	39 (81.3)	808 (79.7)		63	82	56.9	52.1	42.6	35.1	24.0	18.7	22.1	10.0
BMI , kg/m², mean <u>+</u> SD	32.0 ± 7.6	32.9 <u>+</u> 7.7	33.7 <u>+</u> 8.2	34.1 <u>+</u> 8.5	33.1 ± 8.1	BK7 320 mg Q4W/Q4W (N-288)	80	56	- - - 65.6	48.6	43.4	27.3	27.8	18.8	· · 21 3	12 9
Smoking status, current, n (%)	85 (38.6)	18 (54.5)	96 (46.6)	26 (54.2)	462 (45.6)	BR2 520 mg G+W/G+W (N-200)			- 05.0	+0.0	н нэ.н		27.0	10.0	21.5	12.9
Duration of HS, years, mean ± SD	1.3 ± 0.6	1.1 <u>+</u> 0.6	18.6 <u>+</u> 7.0	20.4 <u>+</u> 8.9	8.0 ± 7.8	BKZ Total (N=868)	220	206	64.5	51.5	46.4	32.8	26.3	19.0	22.2	11.4
AN count, mean <u>+</u> SD	15.3 <u>+</u> 13.3	13.4 <u>+</u> 9.4	17.3 <u>+</u> 21.5	15.0 ± 12.0	16.3 <u>+</u> 16.1	PBO (N=146)	33	48	42.5	26.2	21.2	17.1	9.1	8.6	9.1	6.3
DT count, mean <u>+</u> SD	3.0 <u>+</u> 3.5	3.7 <u>+</u> 3.1	3.9 <u>+</u> 4.7	2.3 <u>+</u> 2.8	3.6 <u>+</u> 4.3	Week 48										
Hurley stage, n (%)							77	68	64.0	57.1	51.2	46.7	41.3	30.7	¦ 34.3	20.9
П	138 (62.7)	19 (57.6)	114 (55.3)	29 (60.4)	565 (55.7)	BKZ 320 mg Q2W/Q4W (N=292)	63	82	69.2	53.4	54.7	38.1	44.2	25.3	35.2	18.0
III	82 (37.3)	14 (42.4)	92 (44.7)	19 (39.6)	449 (44.3)					40.0			, , , , , , , , , , , , , , , , , , , , ,			10.0
DLQI total score, mean ± SD	9.7 <u>+</u> 6.8	11.5 <u>+</u> 7.0	12.9 <u>+</u> 7.1	12.2 ± 7.0	11.4 ± 6.9	BKZ 320 mg Q4W/Q4W (N=288)	80	56	1 /2.2	49.9	57.1	38.2	35.3	23.1	1 29.3	18.2
Prior biologic use, a n (%)	16 (7.3)	3 (9.1)	48 (23.3)	12 (25.0)	193 (19.0)	BKZ Total (N=868)	220	206	68.5	53.7	54.3	41.0	40.0	26.5	32.7	19.0
Baseline antibiotic use, n (%)	20 (9.1)	2 (6.1)	21 (10.2)	4 (8.3)	86 (8.5)	PBO/BKZ 320 mg Q2W (N=146)	33	48	72.1	51.5	67.9	45.2	46.6	26.0	40.7	24.8
							-	-			-		-	-		

Randomised set (N=1,014). The BKZ Total group pools data from all patients randomised to BKZ at baseline. [a] Patients received prior biologic therapy for any indication.

HiSCR response rates by lowest and highest disease duration guartiles over time to Week 48 (OC) Figure 1

A) HiSCR50





≥10.87 years (highest duration quartile)





Q2W: every 2 weeks; Q4W: every 4 weeks; SD: standard deviation

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----- BKZ 320 mg Q2W/Q2W B) HiSCR75

<2.40 years (lowest duration quartile)



>10.87 years (highest duration quartile)



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HiSCR response rates by lowest and highest disease duration guartiles (mNRI) Table 2

ack of efficacy/adverse events, or received systemic antibiotics identified as rescue medication for HS by the principal investigator, were considered non-responders; multiple imputation was used for all other

Weeks



D) HiSCR100

Randomised set (N=1,014). The BKZ Total group pools data from all patients randomised to BKZ at baseline. The duration of disease (years) was calculated using the date of randomisation and the date of HS diagnosis. mNRI: patients who discontinued due to

<2.40 years (lowest duration quartile)



≥10.87 years (highest duration quartile)



The BKZ Total group pools data from all patients randomised to BKZ at baseline. The duration of disease (years) was calculated using the date of randomisation and the given week, and percentages are calculated accordingly (i.e. where data recorded after an intercurrent event are included as recorded

Weeks







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