# Bimekizumab efficacy and safety through 2 years in patients with hidradenitis suppurativa: Results from the phase 3 BE HEARD I&II trials and open-label extension BE HEARD EXT

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### Synopsis

- Hidradenitis suppurativa (HS) is a chronic and debilitating inflammatory
- Interleukin (IL)-17F and IL-17A are highly expressed in HS lesional skin and play a role in disease immunopathogenesis.<sup>2-4</sup>
- Bimekizumab (BKZ), a humanized IgG1 monoclonal antibody that selectively inhibits IL-17F in addition to IL-17A, has previously demonstrated clinically meaningful improvements in patients with moderate to severe HS.5,6

# **Objective**

To report efficacy and safety data of BKZ in patients with HS over 2 years from the pooled phase 3 BE HEARD I&II (BHI&II) trials and their open-label extension (OLE), BE HEARD EXT (BHEXT).

#### Methods

- In BHI&II, patients with moderate to severe HS were randomized 2:2:2:1 (initial 16-week [wk]/maintenance 32-wk) to BKZ 320 mg every 2 wks (Q2W)/Q2W, Q2W/Q4W, Q4W/Q4W, or placebo/BKZQ2W. Wk48 completers could enroll in BHEXT and receive open-label BKZQ2W or Q4W based on ≥90% HS Clinical Response (HiSCR90; averaged from Wk36/40/44).6,7
- We report HiSCR50/75/90/100 rates, percentage change from baseline (%CfB, mean±SD) in International HS Severity Score System (IHS4), draining tunnel (DT) count, and Dermatology Life Quality Index (DLQI) 0/1 achievement over 2 years.
- Safety outcomes are reported for patients who received ≥1 BKZ dose
- Data are reported for patients randomized to BKZ in BHI&II and entered BHEXT (BKZ Total).
- Data are reported as observed case (OC)

#### Results

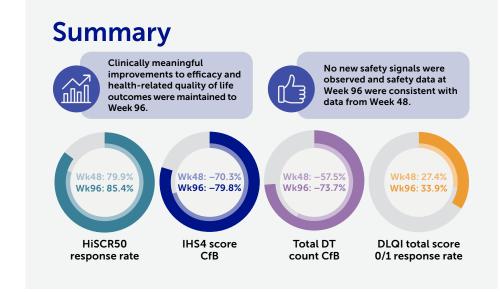
- Of 1,014 total patients initially enrolled in BHI&II, 556 patients randomized at baseline to BKZ completed Wk48 and entered BHEXT, 446 patients completed Wk96 (Figure 1).
- The population was consistent with moderate to severe HS patient populations seen in clinical trials (**Table 1**).8-10
- At Wk48, HiSCR50/75/90/100 was achieved by 79.9/64.0/42.3/30.2% of patients; responses were maintained to Wk96: 85.4/77.1/57.6/44.2% (Figure 2).
- Substantial reductions in IHS4 score at Wk48 (-70.3 ± 39.6 %CfB) were maintained to Wk96 with a  $-79.8 \pm 28.1 \%$ CfB (**Figure 3A**).
- Clinically meaningful reductions in total DT count at Wk48  $(-57.5 \pm 72.9\%$ CfB) were further reduced to Wk96 with a  $-73.7 \pm 45.7\%$ CfB (**Figure 3B**).
- DLQI total score 0/1 response rates at Wk48 (27.4%) were maintained to Wk96 at 33.9% (Figure 3C).
- Safety data were consistent with 1 year data from BHI&II (Table 2).6

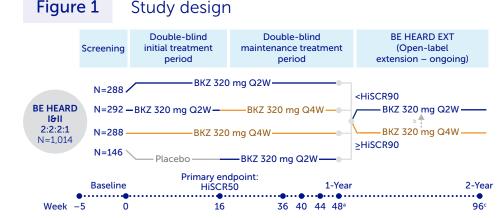
# Conclusions

Efficacy and health-related quality of life outcomes were maintained through 2 years of treatment.

No new safety signals were observed and the safety profile over 2 years was consistent with findings from BHI&II and studies of bimekizumab

These data highlight the durability and consistency of bimekizumab treatment in patients with moderate to severe HS.





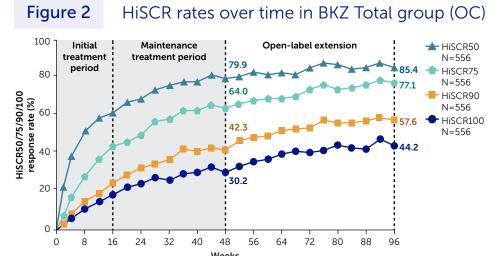
HiSCR90 responder status using the average lesion counts from Wk36, Wk40 and Wk44 of BHI6II; [b] In the first 48Wks of the ongoing BHEXT, dose adjustment from BKZ Q4W to BKZ Q2W was permitted based on prespecified criteria for reduction in

	BKZ Total <sup>a</sup> N=556
e, years, mean ± SD	36.3 <u>+</u> 12.2
<b>x, female</b> , n (%)	299 (53.8)

Baseline characteristics

Age, years, mean ± SD	30.3 ± 12.2
Sex, female, n (%)	299 (53.8)
Racial group, white, n (%)	448 (80.6)
BMI, kg/m², mean ± SD	32.5 ± 7.8
<b>Duration of disease, years</b> , mean $\pm$ SD	7.4 ± 7.1
AN count, mean ± SD	16.9 ± 18.5
DT count, mean ± SD	3.8 ± 4.3
Hurley Stage, n (%)	
II	303 (54.5)
III	253 (45.5)
<b>DLQI total score</b> , mean $\pm$ SD	11.0 ± 6.8
Prior biologic use, <sup>b</sup> n (%)	112 (20.1)
Baseline antibiotic use, n (%)	54 (9.7)

from baseline in BHI&II who entered BHEXT; [b] Patients received prior biologic therapy for any indication



OLE set: N=657; included only patients who entered BHEXT at Wk48. Data for patients in BKZ Total are presented. BKZ Total comprised of patients randomized to BKZ from baseline in BHI&II who entered BHEXT (N=556). Wk48 n/N: HiSCR50, 444/556; HiSCR75, 356/556; HiSCR90, 235/556; HiSCR100, 168/556; Wk96 n/N: HiSCR50, 381/446; HiSCR75, 344/446; count assessment in the given week, and percentages are calculated accordingly (i.e. where data recorded after an intercurrent event are included as recorded).

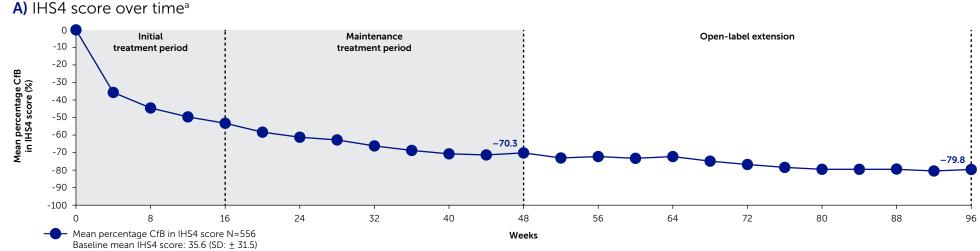
### Overview of safety outcomes over 2 years<sup>a</sup>

Patients with ≥1 dose BKZ

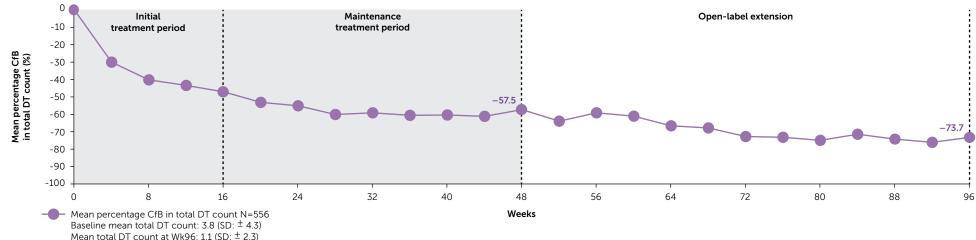
EAIR/100 PY (95% CI)	Over 1 year (Weeks 0–48) <sup>b</sup> Total exposure: 8.1 per 100 PY	Over 2 years (Weeks 0–96) Total exposure: 17.7 per 100 PY
Any TEAE	287.0 (267.9, 307.1)	248.9 (233.0, 265.5)
Serious TEAEs	8.1 (6.3, 10.4)	7.2 (6.0, 8.6)
Severe TEAEs	10.4 (8.2, 12.9)	7.7 (6.4, 9.2)
TEAEs leading to discontinuation	8.5 (6.6, 10.8)	6.3 (5.1, 7.6)
All deaths <sup>c</sup>	0.1 (0.0, 0.7)	0.1 (0.0, 0.4)
Most common TEAEs	1	ı
Hidradenitis	25.7 (22.1, 29.6)	20.5 (18.2, 23.0)
Coronavirus infection	14.0 (11.4, 16.9)	15.3 (13.4, 17.4)
Oral candidiasis <sup>d</sup>	14.7 (12.1, 17.7)	10.5 (8.9, 12.2)
Serious infections	2.0 (1.1, 3.2)	1.9 (1.3, 2.6)
Fungal infections	34.2 (30.0, 38.9)	24.4 (21.8, 27.2)
Any malignancies	0.5 (0.1, 1.3)	0.7 (0.4, 1.3)
Any hepatic events	5.6 (4.1, 7.5)	4.7 (3.7, 5.8)
Adjudicated suicidal ideation and behavior <sup>e</sup>	0.6 (0.2, 1.4)	0.7 (0.4, 1.3)
Definite or probable adjudicated IBD	!	1
With history of IBD (n=8)	0.0 (N/A)	14.2 (1.7, 51.2)
No history of IBD (n=987)	0.9 (0.4, 1.8)	0.5 (0.2, 0.9)

TEAEs were coded using MedDRA v19.0 and reported using EAIRs per 100 PY. [a] TEAEs for all patients who received ≥1 BKZ dose over 1 (Weeks 0–48) and 2 years (Weeks 0–96), including patients who switched at Week 16 from placebo to BKZ 320 mg Q2W (n=134; for these patients, events are reported after the switch to BKZ and for 80 weeks of BKZ treatment); [b] Data ginally presented at FADV 2023. Bechara EG et al. P0087. Icl Across 2 years, one patient with significant cardiovascular history died due to congestive heart failure. One patient died due to possible central nervous system infection in the con of deteriorating HS; [d] The majority of oral candidiasis cases were mild to moderate and were resolved/recovering with standard anti-fungal therapy: [e] There were no events of completed suicide.

#### Percentage change from baseline in key efficacy outcomes

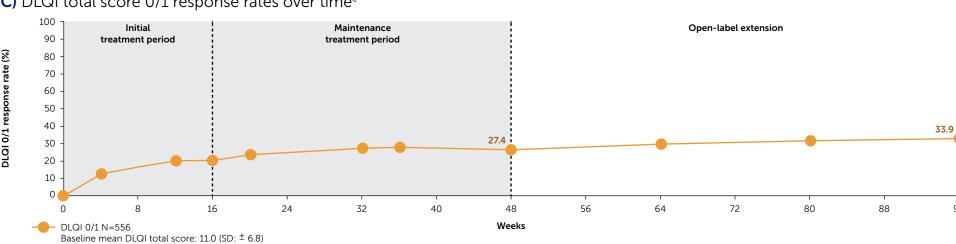


#### B) Total DT count over time<sup>b</sup>



#### C) DLQI total score 0/1 response rates over time<sup>c</sup>

Mean DLQI total score at Wk96: 4.7 (SD: ± 5.2)



OLE set: N=657; included only patients who entered BHEXT at Wk48. Data for patients in BKZ Total are presented. BKZ Total comprised patients randomized to BKZ from baseline in BHISII who entered BHEXT. OC, n/Nsub: Nsub repres ing data at the given week, and percentages are calculated accordingly (i.e. where data recorded after an intercurrent event are included as recorded). [a] Wk48 n/N: 556/556, Wk96 n/N: 446/556; [b] Wk48 n/N: 425/556, Wk96 n/N 350/556; [c] Wk48 n/N: 151/551, Wk96 n/N: 149/439.

ndex: CfB: change from baseline: CI: confidence interval: DLQI: Dermatology Life Quality Index: DT: draining tunnel: EAIR: exp. nce rate; HISCR: Hidradenitis Suppurativa Clinical Response; HISCR50/75/90/100: >50/75/90/100% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in

References: <sup>1</sup>Zouboulis CC et al. Exp Dermatol 2020;29:1154–70; <sup>2</sup>Skelton A et al. J Invest Dermatol 2023;14:389; <sup>3</sup>Kimball AB et al. Exp Dermatol 2022;31:1522–32; <sup>4</sup>Zouboulis VA et al. Exp Dermatol 2020;11:1894; <sup>6</sup>Kimball AB et al. Exp Dermatol 2023;14:49; <sup>5</sup>Adams R et al. Front Immunol 2020;11:1894; <sup>6</sup>Kimball AB et al. Exp Dermatol 2023;14:49; <sup>5</sup>Adams R et al. Exp Dermatol 2023;14:49; <sup>5</sup>Adams R et al. Front Immunol 2020;11:1894; <sup>6</sup>Kimball AB et al. Exp Dermatol 2023;14:49; <sup>5</sup>Adams R et al. Exp Dermatol 2023;14:49; <sup>5</sup>Adams 2016;375:422-34; 10 Kimball AB et al. Lancet 2023;401:747-61; 11 Received institution grants as a clinical and research investigator for AstraZeneca, Boehringer Ingelheim, Brandenburg Medical School Theodor Fontane, EADV, European Union, German Federal Ministry of Education and Research, GSK, InflaRx, MSD, Novaris, 76-12, 3-45; "Microbal AB et al. Lancet 2025;82:513-26, "Author Disclosuris As a cultural place and CDB; received honoraria as a consultant for Almiral, Beepfringer Ingellenin, Bit lily and Company, Idoa du CDB; received honoraria as a consultant for Almiral, Beepfringer Ingellenin, Bit lily and Company, Idoa du CDB; received honoraria as an advisor for Almiral, Beepfringer Ingellenin, Bit lily and Company, Idoa du CDB; received honoraria as an advisor for AbbVie, Boehringer Ingellenin, Bit lily and Company, Idoa du CDB; received honoraria as an advisor for AbbVie, Boehringer Ingellenin, Bit lily and Company, Idoa du CDB; received lecture fees from AbbVie, Boehringer Ingellenin, Bit lily and Company, Idoa du CDB; received lecture fees from AbbVie, Boehringer Ingellenin, Incyte, Insmed, Novartis, Pfizer, Sonoma Biotherapeutics; received lecture fees from AbbVie, Boehringer Ingellenin, Incyte, Ingellenin, Beepfringer Ingellenin, Bit lily and Company, Idoa du CDB; received International CDB; Investigator for AbbVie, Boehringer Ingellenin, Incyte, Ingellenin, Incyte, Ingellenin, Beepfringer Ingellenin, Beepfringer Ingellenin, Incyte, Ingellenin, Beepfringer I and/or speaker's fees from AbbVie, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eisai, Eli Lilly and Company, Janssen, Kyowa Hakko Kirin, LEO Pharma, Maruho, Mitsubishi Tanabe Pharma, Maruho, Mitsubishi patients and their caregivers in addition to all the investigators and their teams who contributed to these studies. The authors acknowledge Susanne Wiegratz, MSc, UCB, Monheim am Rhein, Germany for publication coordination, and May-Li MacKinnon, PhD, Costello Medical, Manchester for medical writing and editorial assistance. All costs associated with the development of this presentation were funded by UCB.

