#### **Bimekizumab in HS**

For proactive use by medical affairs personnel

# Driven by science.

Intended for healthcare professionals

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#### Disclaimer

BIMZELX® (bimekizumab) is approved for the treatment of adults with moderate to severe hidradenitis suppurativa.

Dosing of bimekizumab as per study design; may include off-label dosing. The recommended dose for adults with moderate to severe hidradenitis suppurativa is 320 mg by subcutaneous injection at Weeks 0, 2, 4, 6, 8, 10, 12, 14, and 16, then every 4 weeks thereafter.



Driven by science. BIMZELX<sup>®</sup> [prescribing information]. Smyrna, GA: UCB, Inc.

#### **Publications of BKZ Phase 3 Trials in HS**

*Kimball AB, et al.* (**2024**) Efficacy and safety of bimekizumab in patients with moderate-to-severe hidradenitis suppurativa (**BE HEARD I** and **BE HEARD II**): two 48-week, randomized, double-blind, placebo-controlled, multicenter Phase 3 trials



US-BK-2401105

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### **Inclusion and Exclusion Criteria**

Inclusion Criteria

Adults (aged **≥18 years**) with **moderate-to-severe HS** 

Moderate-to-severe disease was defined as presence of ≥5 inflammatory lesions (abscesses, inflammatory nodules, or both) affecting ≥2 distinct anatomical areas, one of which was at least Hurley Stage II or III (at both screening and baseline visits), evidenced by clinical history and physical examination, and diagnosed ≥6 months before the baseline visit

Documented history of **inadequate response**, as assessed by a physician, to **systemic antibiotics for the treatment of HS** (e.g., tetracyclines, clindamycin, and rifampicin) at screening

Patients using a stable dose (pro re nata use not accepted) of **doxycycline**, **minocycline**, or an equivalent **systemic tetracycline** for **28 days before baseline** were allowed to continue antibiotics and enroll in the studies alongside patients who were not receiving antibiotics

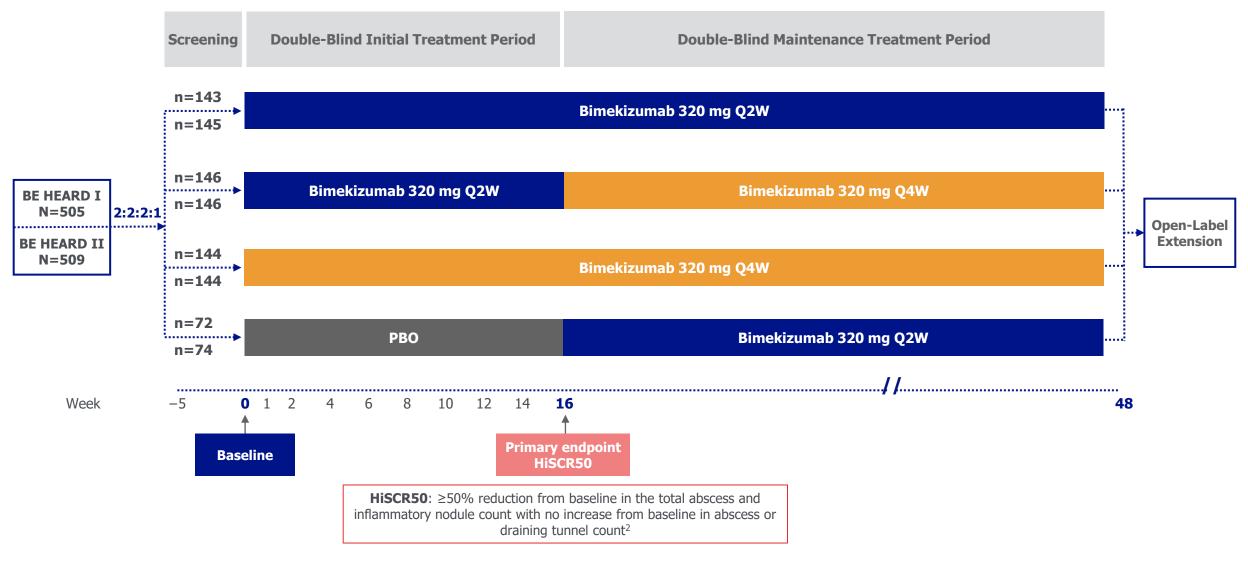
#### **Exclusion** Criteria

Patients were **excluded** if they had >20 DTs at baseline, had another **active skin disease** or condition that could interfere with HS assessment, had received TNF-a inhibitors within 12 weeks, or IL-17 biological response modifier therapy within 6 months of baseline, or topical therapy within 14 days of baseline, or had received systemic therapy for the treatment of HS

Patients with active IBD were excluded. Patients with Crohn's disease or ulcerative colitis with no active symptomatic disease at screening or baseline were allowed

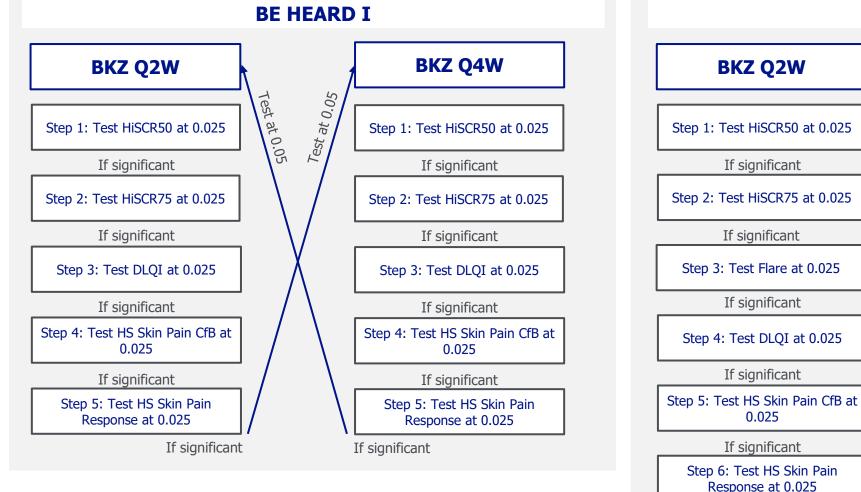


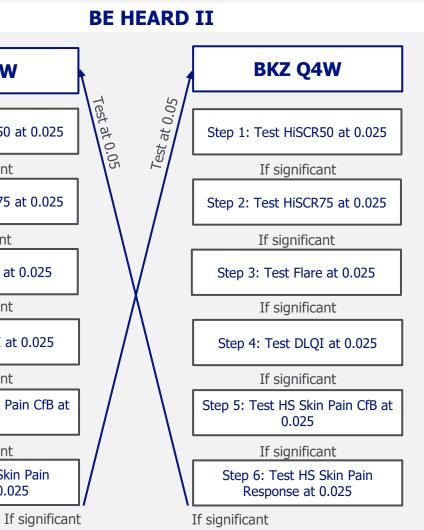
### **BE HEARD I & II Study Design<sup>1</sup>**



Inspired by **patients.** Driven by **science.**  HiSCR50: Hidradenitis Suppurativa Clinical Response of ≥50% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. 1. Kimball AB, et al. *Lancet*: 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6 2. Kimball AB, et al. *J Eur Acad Dermatol Venereol*. 2016;30(6):989-994. doi: 10.1111/jdv.13216

### **Statistical Testing Hierarchy**





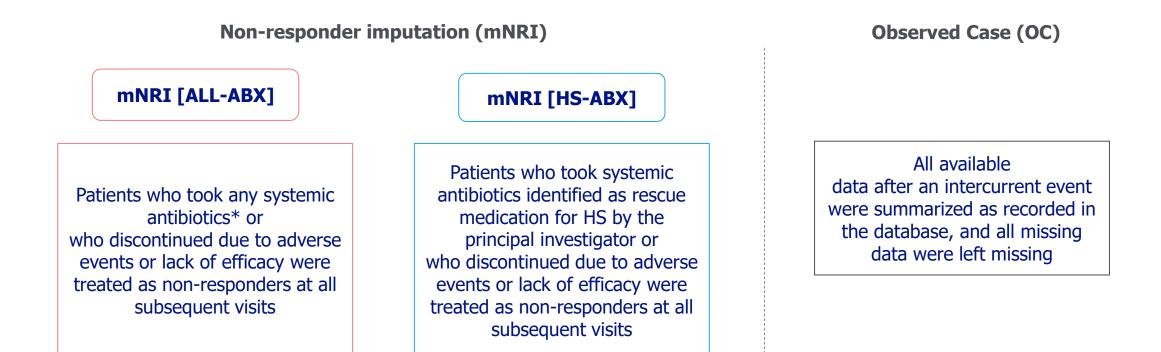


HS skin pain response was tested among study patients with a score of  $\geq$ 3 at baseline. BKZ: bimekizumab; CfB: change from baseline; DLQI: Dermatology Life Quality Index; HiSCR50/75: Hidradenitis Suppurativa Clinical Response of  $\geq$ 50%/  $\geq$ 75% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; Q2W: every 2 weeks; Q4W: every 4 weeks.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

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### **Explanation of Statistical Methods**

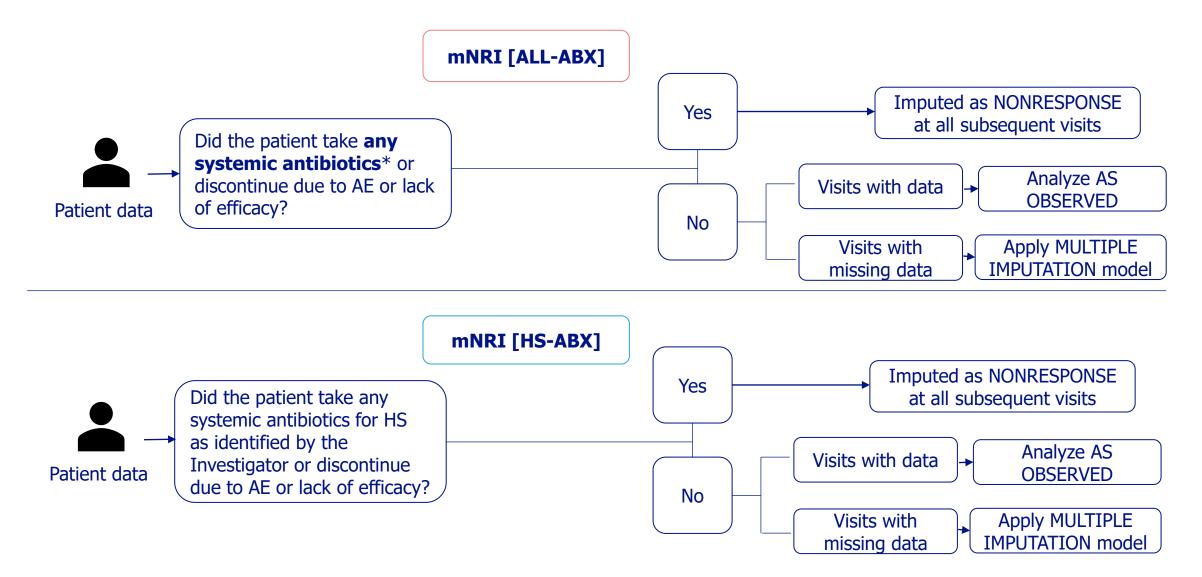




\*This refers to any new systemic antibiotic for those who were not on systemic antibiotics at baseline and any change in dose for those who were on systemic antibiotics at baseline. ABX: antibiotics; HS: hidradenitis suppurativa.

Kimball AB, et al. *Lancet*. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

### **Missing Data Handling**



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\*Driven by science.

### **Baseline Patient Demographics**

|  |                            | <b>BE HEARD I</b>         |                  | BE HEARD II                |                           |                  |  |  |
|--|----------------------------|---------------------------|------------------|----------------------------|---------------------------|------------------|--|--|
|  | BKZ 320 mg Q2W<br>(n=289)* | BKZ 320 mg Q4W<br>(n=144) | PBO<br>(n=72)    | BKZ 320 mg Q2W<br>(n=291)* | BKZ 320 mg Q4W<br>(n=144) | РВО<br>(n=74)    |  |  |
| Age, median (IQR), y   | 36.0 (26.0-46.0)           | 35.0 (27.0-45.0)          | 33.5 (26.0-46.0) | 35.0 (27.0-45.0)           | 33.0 (26.0-42.5)          | 37.0 (28.0-47.0) |  |  |
| Age group, n (%)   |                            |                           |                  |                            |                           |                  |  |  |
| <40 years  | 174 (60)                   | 93 (65)                   | 45 (63)          | 180 (62)                   | 97 (67)                   | 46 (62)          |  |  |
| 40 years to <65 years  | 109 (38)                   | 50 (35)                   | 26 (36)          | 107 (37)                   | 45 (31)                   | 24 (32)          |  |  |
| ≥65 years  | 6 (2)                      | 1 (<1)                    | 1 (1)            | 4 (1)                      | 2 (1)                     | 4 (5)            |  |  |
| <b>Sex</b> , n (%)   |                            |                           |                  |                            |                           |                  |  |  |
| Female   | 176 (61)                   | 98 (68)                   | 44 (61)          | 150 (52)                   | 77 (54)                   | 31 (42)          |  |  |
| Male   | 113 (39)                   | 46 (32)                   | 28 (39)          | 141 (48)                   | 67 (46)                   | 43 (58)          |  |  |
| Body weight, mean (SD), kg                                     | 97.2 (25.4)                | 102.7 (24.7)              | 94.6 (24.8)      | 95.4 (24.2)                | 95.3 (22.0)               | 100.3 (23.7)     |  |  |
| BMI, mean (SD)   | 33.4 (8.3)                 | 35.4 (8.1)                | 32.4 (7.8)       | 32.0 (8.0)                 | 32.2 (7.5)                | 33.8 (8.7)       |  |  |
| Smoking status, n (%)  |                            |                           |                  |                            |                           |                  |  |  |
| Current  | 127 (44)                   | 53 (37)                   | 37 (51)          | 134 (46)                   | 73 (51)                   | 38 (51)          |  |  |
| Former <sup>+</sup>  | 43 (15)                    | 28 (19)                   | 7 (10)           | 49 (17)                    | 14 (10)                   | 10 (14)          |  |  |
| <b>Race</b> , n (%)  |                            |                           |                  |                            |                           |                  |  |  |
| White  | 233 (81)                   | 105 (73)                  | 55 (76)          | 232 (80)                   | 119 (83)                  | 64 (86)          |  |  |
| Black  | 41 (14)                    | 21 (15)                   | 8 (11)           | 22 (8)                     | 13 (9)                    | 5 (7)            |  |  |
| Asian  | 2 (<1)                     | 3 (2)                     | 3 (4)            | 22 (8)                     | 7 (5)                     | 5 (7)            |  |  |
| <b>Previous use of biological therapy</b> , <sup>‡</sup> n (%) | 76 (26)                    | 31 (22)                   | 19 (26)          | 41 (14)                    | 16 (11)                   | 10 (14)          |  |  |

Inspired by patients. Driven by science. Percentages might not add up to 100% due to rounding. \*Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. \*Patients were included in the former smoker category if they had been a smoker at any previous point. \*A full list of excluded prior biological agents is provided in appendix 2 (pp 43–45, pp 167–169). BKZ: bimekizumab; BMI: body mass index; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

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#### **Baseline Disease Characteristics**

|  |                            | <b>BE HEARD I</b>         |                | BE HEARD II                |                           |                |  |  |
|--|----------------------------|---------------------------|----------------|----------------------------|---------------------------|----------------|--|--|
|  | BKZ 320 mg Q2W<br>(n=289)* | BKZ 320 mg Q4W<br>(n=144) | PBO<br>(n=72)  | BKZ 320 mg Q2W<br>(n=291)* | BKZ 320 mg Q4W<br>(n=144) | PBO<br>(n=74)  |  |  |
| <b>Disease duration</b> ,<br>median (IQR), y     | 5.7 (3.1-12.0)             | 5.6 (2.6-11.9)            | 8.7 (4.5-15.4) | 4.9 (2.1-10.4)             | 4.2 (1.9-7.8)             | 4.8 (1.3-12.3) |  |  |
| Abscess and inflammatory nodule count, mean (SD) | 15.3 (13.5)                | 17.8 (25.3)               | 15.0 (11.9)    | 16.7 (15.5)                | 17.6 (15.4)               | 13.9 (7.8)     |  |  |
| Abscess count                                    | 3.7 (6.1)                  | 4.5 (8.4)                 | 2.9 (6.6)      | 3.3 (5.9)                  | 3.5 (5.0)                 | 2.4 (2.8)      |  |  |
| Inflammatory nodule count                        | 11.6 (11.4)                | 13.3 (22.4)               | 12.2 (10.0)    | 13.4 (12.2)                | 14.1 (13.3)               | 11.4 (6.7)     |  |  |
| DT count, mean (SD)                              | 4.0 (4.9)                  | 3.8 (4.9)                 | 3.2 (4.0)      | 3.6 (4.0)                  | 2.8 (3.1)                 | 3.5 (3.7)      |  |  |
| Hurley stage, n (%)                              |                            |                           |                |                            |                           |                |  |  |
| II   | 149 (52)                   | 71 (49)                   | 34 (47)        | 177 (61)                   | 89 (62)                   | 45 (61)        |  |  |
| III  | 140 (48)                   | 73 (51)                   | 38 (53)        | 114 (39)                   | 55 (38)                   | 29 (39)        |  |  |
| DLQI total score, mean (SD)                      | 11.5 (6.6)                 | 12.8 (7.6)                | 12.4 (8.0)     | 10.6 (6.5)                 | 10.5 (7.0)                | 11.9 (6.1)     |  |  |
| <b>Concomitant antibiotic use</b> , n (%)        | 27 (9)                     | 8 (6)                     | 5 (7)          | 30 (10)                    | 10 (7)                    | 6 (8)          |  |  |
| <b>HSSDD worst skin pain score,</b><br>mean (SD) | 5.5 (2.5)                  | 5.9 (2.6)                 | 6.0 (2.5)      | 5.3 (2.4)                  | 5.3 (2.5)                 | 5.0 (2.4)      |  |  |



Percentages might not add up to 100% due to rounding. \*Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. BKZ: bimekizumab; DLQI: Dermatology Life Quality Index; DT: draining tunnel; HSSDD: Hidradenitis Suppurativa Symptom Daily Diary; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

#### Primary and Key Ranked Secondary Efficacy Endpoints at Week 16

|  |  | <b>BE HEARD I</b>   |               | BE HEARD II  |  |               |  |
|--|--|---|---------------|--|--|---------------|--|
| n (%), unless otherwise specified for the randomized set | BKZ 320 mg Q2W*<br>(n=289)                             | BKZ 320 mg Q4W<br>(n=144)   | РВО<br>(n=72) | BKZ 320 mg Q2W*<br>(n=291)   | BKZ 320 mg Q4W<br>(n=144)  | РВО<br>(n=74) |  |
| Primary efficacy endpoint                                |  |   |               |  |  |               |  |
| HiSCR50 <sup>†,‡</sup>                                   | 138 (48%)  | 65 (45%)  | 21 (29%)      | 151 (52%)  | 77 (54%)   | 24 (32%)      |  |
| BKZ Q2W vs PBO, OR<br>(97.5% CI); <i>P-</i> value        | 2.23<br>(1.16 - 4.31)<br><i>P</i> =0.0060 <sup>§</sup> |   |               | 2.29<br>(1.22 - 4.29)<br><i>P</i> =0.0032 <sup>§</sup>                 |  |               |  |
| BKZ Q4W vs PBO, OR<br>(97.5% CI); <i>P-</i> value        |  | 2.00<br>(0.98 - 4.09)<br><i>P</i> =0.030 <sup>∥</sup> (not significant) |               |  | 2.42<br>(1.22 - 4.80)<br><i>P</i> =0.0038 <sup>§</sup>                 |               |  |
| Ranked secondary endpoints                               |  | , <u> </u>  |               |  |  |               |  |
| HiSCR75 <sup>†,‡</sup>                                   | 97 (33%)   | 36 (25%)  | 13 (18%)      | 104 (36%)  | 49 (34%)   | 12 (16%)      |  |
| BKZ Q2W vs PBO, OR<br>(97.5% CI); <i>P-</i> value        | 2.18<br>(1.02 - 4.64)<br><i>P</i> =0.021 <sup>§</sup>  |   |               | 3.01<br>(1.37 - 6.58)<br><i>P</i> =0.0016 <sup>§</sup>                 |  |               |  |
| BKZ Q4W vs PBO, OR<br>(97.5% CI); <i>P-</i> value        |  | 1.42<br>(0.62 - 3.26)<br><i>P</i> =0.35 <sup>∥</sup> (not significant)  |               |  | 2.72<br>(1.18 - 6.27)<br><i>P</i> =0.0071 <sup>§</sup>                 |               |  |
| Flare <sup>†,‡,¶</sup>                                   | NA   | NA  | NA            | 84 (29%)   | 34 (24%)   | 21 (28%)      |  |
| BKZ Q2W vs PBO, OR<br>(97.5% CI); <i>P-</i> value        | NA   | NA  | NA            | 1.05<br>(0.54 - 2.04)<br><i>P</i> =0.87 <sup>∥</sup> (not significant) |  |               |  |
| BKZ Q4W vs PBO, OR<br>(97.5% CI); <i>P-</i> value        | NA   | NA  | NA            |  | 0.80<br>(0.38 - 1.68)<br><i>P</i> =0.50 <sup>∥</sup> (not significant) |               |  |

Randomized set. ORs are presented for binary variables and least-squares mean difference presented for continuous variables. For multiply imputed binary variables, the rounded average number of patients with response based on 100 imputations is reported. \*Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. †Data were imputed by means of an mNRI (ALL-ABX): patients who received any systemic antibiotic (new or increased dose) or who discontinued due to an adverse event or absence of efficacy were treated as nonresponders (or treated as experiencing flare for the flare endpoint) at all subsequent visits. Other missing data were imputed via MI (primary, prespecified analysis method). \**P*-values (from Vald tests) for adjusted responder rates obtained from logistic regression with treatment, Hurley stage at baseline, and baseline antibiotic use (and analgesic use for pain response only) as factors. <sup>§</sup>Statistically significant per the statistical hierarchy.  $||_{P}$ -value calculated based on statistical testing methodology, had the given BKZ regimen succeeded at hierarchical testing. <sup>¶</sup>Flare by Week 16 was defined as at least 1 occurrence of flare between baseline and up to Week 16, in which flare was defined as at least a 25% increase in AN count with an increase of at least 2 ANs relative to baseline. Flare was not a secondary endpoint in BE HEARD I, so these cells have been marked with NA. ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; HiSCR50/75: Hidradenitis Suppurativa Clinical Response of  $\geq 50\% / \geq 75\%$  reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified nonresponder imputation; MA: not applicable; OR: odds ratio; PBO: placebo; Q2W: every 4 weeks.



Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

#### **Key Ranked Secondary Efficacy Endpoints at Week 16**

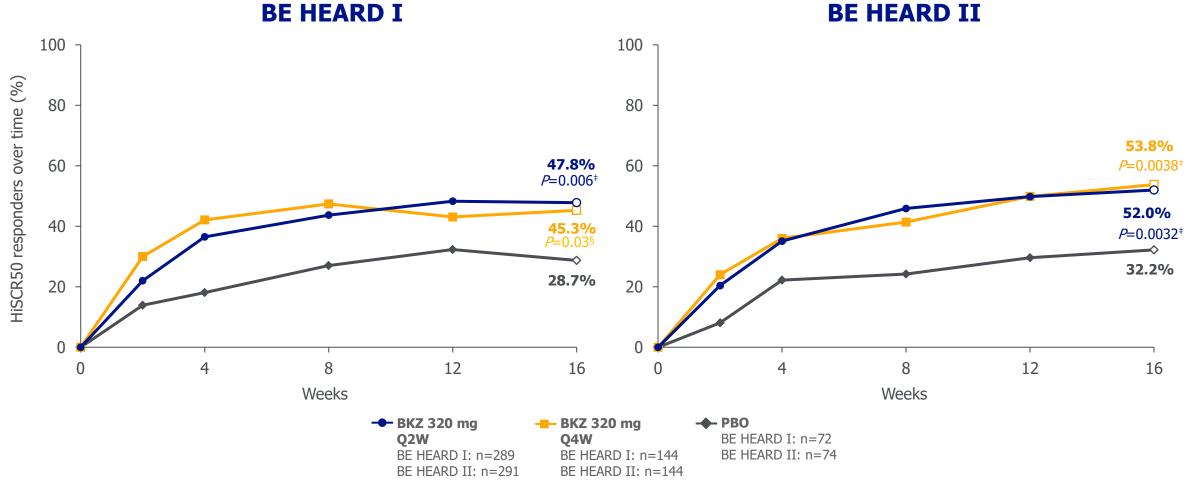
Inspired by patients.

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|   |   | BE HEARD I   |               | BE HEARD II  |  |               |  |
|---|---|--|---------------|--|--|---------------|--|
| n (%), unless otherwise specified for the randomized set                          | BKZ 320 mg Q2W*<br>(n=289)                                  | BKZ 320 mg Q4W<br>(n=144)  | РВО<br>(n=72) | BKZ 320 mg Q2W*<br>(n=291)   | BKZ 320 mg Q4W<br>(n=144)  | PBO<br>(n=74) |  |
| Ranked secondary endpoints (con   | tinued)   |  |               |  |  |               |  |
| <b>DLQI total score change from</b><br><b>baseline</b> , mean (SE) <sup>†,‡</sup> | -5.0 (0.4)  | -5.5 (0.5)   | -2.7 (0.7)    | -4.5 (0.3)   | -4.1 (0.4)   | -3.1 (0.6)    |  |
| BKZ Q2W vs PBO, LS mean difference (97.5% CI); <i>P</i> -value                    | -2.68<br>(-4.39 to -0.97)<br><i>P</i> =0.0005 <sup>§</sup>  |  |               | -2.31<br>(-3.71 to -0.91)<br><i>P</i> =0.0002 <sup>∥</sup> (not significant) |  |               |  |
| BKZ Q4W vs PBO, LS mean difference (97.5% CI); <i>P</i> -value                    |   | -2.57<br>(-4.47 to -0.68)<br><i>P</i> =0.0024 <sup>∥</sup> (not significant) |               |  | -2.39<br>(-3.92 to -0.87)<br><i>P</i> =0.0004 <sup>∥</sup> (not significant) |               |  |
| HSSDD worst skin pain score<br>change from baseline,<br>mean (SE) <sup>†,¶</sup>  | -1.9 (0.2)  | -1.7 (0.2)   | -1.1 (0.2)    | -1.9 (0.1)   | -1.7 (0.2)   | -0.4 (0.3)    |  |
| BKZ Q2W vs PBO, LS mean difference (97.5% CI); <i>P</i> -value                    | -1.19<br>(-2.05 to -0.32)<br><i>P</i> =0.0022§              |  |               | -1.27<br>(-1.98 to -0.55)<br>P<0.0001 <sup>∥</sup> (not significant)         |  |               |  |
| BKZ Q4W vs PBO, LS mean difference (97.5% CI); <i>P</i> -value                    |   | -0.55<br>(-1.52 to 0.42)<br><i>P</i> =0.20 <sup>∥</sup> (not significant)    |               |  | -0.90<br>(-1.68 to -0.11)<br><i>P</i> =0.010 <sup>∥</sup> (not significant)  |               |  |
| HSSDD worst skin pain<br>response <sup>**,††,‡‡</sup>                             | 61 (32%)  | 23 (22%)   | 7 (1%)        | 66 (32%)   | 31 (29%)   | 5 (11%)       |  |
| BKZ Q2W vs PBO, OR<br>(97.5% CI); <i>P</i> -value                                 | 2.76<br>(0.91 - 8.36)<br><i>P</i> =0.041∥ (not significant) |  |               | 3.76<br>(1.19 - 11.87)<br><i>P</i> =0.010 <sup>∥</sup> (not significant)     |  |               |  |
| BKZ Q4W vs PBO, OR<br>(97.5% CI); <i>P</i> -value                                 |   | 1.62<br>(0.49 - 5.35)<br><i>P</i> =0.37 <sup>∥</sup> (not significant)       |               |  | 3.27<br>(0.97 - 11.00)<br><i>P</i> =0.028 <sup>∥</sup> (not significant)     |               |  |

Randomized set. ORs are presented for binary variables and least-squares mean difference presented for continuous variables. For multiply imputed binary variables, the rounded average number of patients with response based on 100 imputations is reported. \*Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. \*Data were imputed by means of MI (ALL-ABX): patients who received any systemic antibiotic (new or increased dose) or who discontinued due to an adverse event or absence of efficacy were treated as nonresponders (or treated as experiencing flare for the flare endpoint) at all subsequent visits. Other missing data were imputed via MI (primary, prespecified analysis method). \**P*-values based on an ANCOVA with fixed effects of treatment, Hurley stage at baseline, baseline antibiotic use, and baseline DLQI total score as covariates. <sup>§</sup>Statistically significant per the statistical hierarchy. *P*-value baseline antibiotic use, analgesic use, and baseline HSSDD worst skin pain score as covariates. \*\*Data were imputed using mNRI (All-ABX): patients who discontinued study treatment, due to absence of efficacy or adverse events, or who received any systemic antibiotics during the study (new or increased dose), were set to missing and subsequently imputed using MI. <sup>++</sup>*P*-values (from Wald tests) for adjusted responder rates obtained from logistic regression with treatment, Hurley stage at baseline, and baseline antibiotic use (and analgesic use for pain response only) as factors. <sup>++</sup>Pain response was defined as an improvement from baseline in HSSDD weekly worst skin pain score of at least 3 points among patients with a baseline score of 3 or higher. ABX: antibiotics; ANCOVA: analysis of covariance; BKZ: bimekizumab; DLQI: Dermatology Life Quality Index; HS: hidradenitis suppurativa; HSSDD: HS Symptom Daily Diary; LS: least squares; MI: multiple imputation; mNRI: modified nonresponder imputation; OR: odds ratio; PBO: placebo: O2W: every 2 weeks; O4W: every 4 weeks. (HME: ABA

#### **Primary Endpoint: HiSCR50 Responses at Week 16 in Patients** Treated With BKZ versus PBO (mNRI [ALL-ABX])\*,<sup>+</sup>



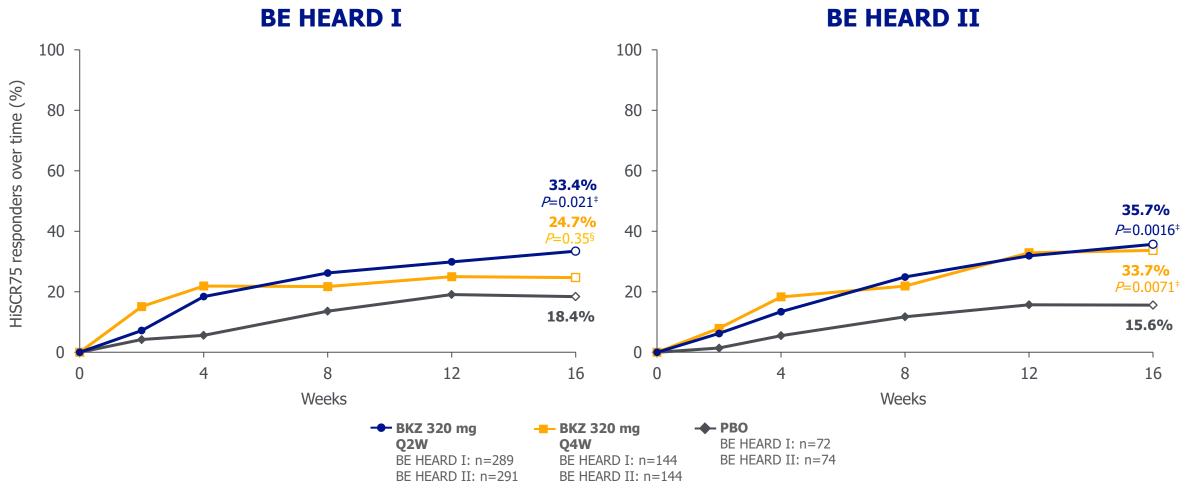
\*The rates of HiSCR50 r from randomization to Week 16 in BE HEARD I and BE HEARD II mNRI (ALL-ABX): patients who received any systemic antibiotic (new or increased dose) or who discontinued due to an adverse event or absence of efficacy were treated as nonresponders at all subsequent visits. Other missing data were imputed via MI (primary, prespecified analysis method). <sup>†</sup>The primary endpoint of HiSCR50 at Week 16 was met for BKZ 320 mg O2W vs placebo in BE HEARD I and for both BKZ dosing regimens in BE HEARD II. \*Statistically significant per the statistical hierarchy. <sup>§</sup>P-value calculated based on statistical testing methodology had the given BKZ regimen succeeded at hierarchical testing. ABX: antibiotics; BKZ: bimekizumab; DT: draining tunnel; HiSCR: Hidradenitis Suppurativa Clinical Response; HiSCR50: <a>50% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified nonresponder imputation; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks.

Inspired by patients.

Driven by **science**.

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### Key Ranked Secondary Endpoint: HiSCR75 Responses at Week 16 in Patients Treated With BKZ versus PBO (mNRI [ALL-ABX])\*,<sup>†</sup>



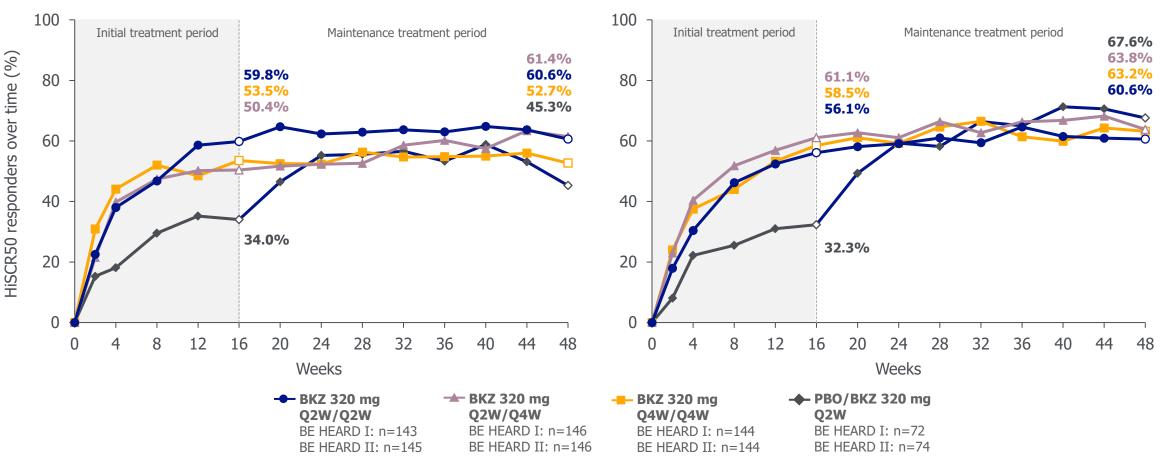
\*The rates of HiSCR75 from randomization to Week 16 in BE HEARD I and BE HEARD II mNRI (ALL-ABX): patients who received any systemic antibiotic (new or increased dose) or who discontinued due to an adverse event or absence of efficacy were treated as nonresponders at all subsequent visits. Other missing data were imputed via MI (primary, prespecified analysis method). \*The secondary endpoint of HiSCR75 at Week 16 was met for BKZ 320 mg Q2W vs placebo in BE HEARD I and for both BKZ dosing regimens in BE HEARD II. \*Statistically significant per the statistical hierarchy. \*P-value calculated based on statistical testing methodology had the given BKZ regimen succeeded at hierarchical testing. ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; HiSCR75: Hidradenitis Suppurativa Clinical Response of ≥ 75% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified nonresponder imputation; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519, doi:10.1016/S0140-6736(24)00101-6



# HiSCR50 Responses Over 48 Weeks With BKZ versus PBO (mNRI [HS-ABX])\*

**BE HEARD I** 

**BE HEARD II** 

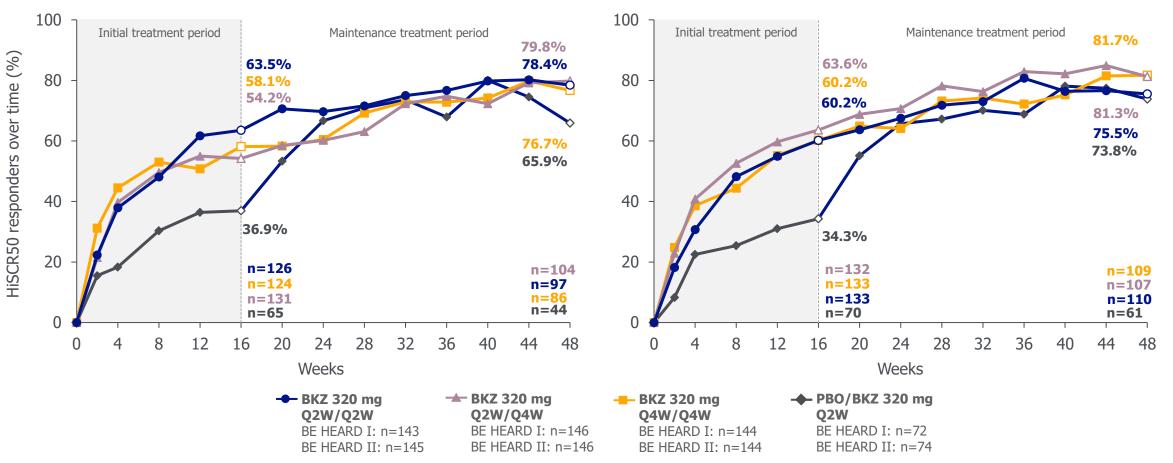


\*mNRI (HS-ABX): patients who took systemic antibiotics defined as rescue medication for HS by the principal investigator or who discontinued due to adverse events or lack of efficacy were treated as nonresponders at all subsequent visits. Other missing data were imputed via MI. ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; DT: draining tunnel; HiSCR50: Hidradenitis Suppurativa Clinical Response of ≥50% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified non-responder imputation; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

### HiSCR50 Responses Over 48 Weeks With BKZ versus PBO (OC)\*

**BE HEARD I** 

**BE HEARD II** 



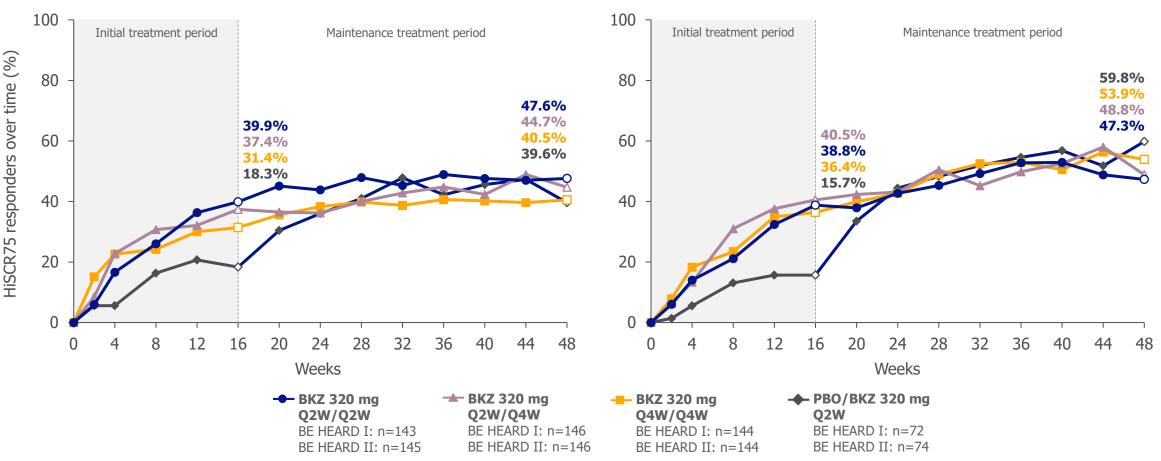


\*The rates of HiSCR50 from randomization to Week 48 in BE HEARD I and BE HEARD II. Data are shown for OC (i.e., all available data after an intercurrent event were summarized as recorded in the database, and all missing data were left missing). AN: abscess and inflammatory nodule; BKZ: bimekizumab; HiSCR50: Hidradenitis Suppurativa Clinical Response of ≥50% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; OC: observed case; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet*. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

# HiSCR75 Responses Over 48 Weeks With BKZ versus PBO (mNRI [HS-ABX])\*

**BE HEARD I** 

**BE HEARD II** 



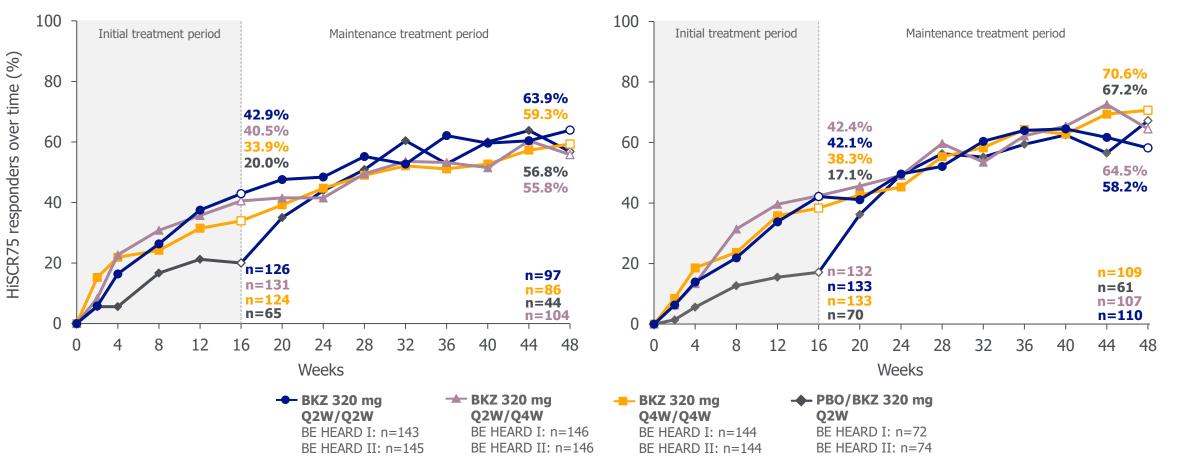


\*mNRI (HS-ABX): patients who took systemic antibiotics defined as rescue medication for HS by the principal investigator or who discontinued due to adverse events or lack of efficacy were treated as nonresponders at all subsequent visits. Other missing data were imputed via MI. ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; DT: draining tunnel; HiSCR75: Hidradenitis Suppurativa Clinical Response of ≥75% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified non-responder imputation; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet*. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

### HiSCR75 Responses Over 48 Weeks With BKZ versus PBO (OC)\*

**BE HEARD II** 

**BE HEARD I** 

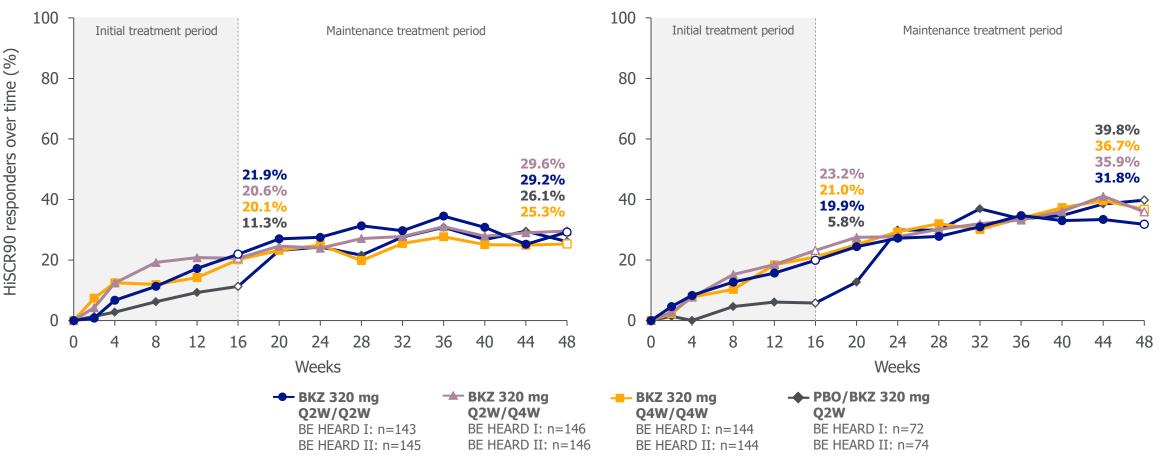


Inspired by patients. Driven by science. \*The rates of HiSCR75 from randomization to Week 48 in BE HEARD I and BE HEARD II. Data are shown for OC (i.e., all available data after an intercurrent event were summarized as recorded in the database, and all missing data were left missing). AN: abscess and inflammatory nodule; BKZ: bimekizumab; HiSCR75: Hidradenitis Suppurativa Clinical Response of ≥75% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; OC: observed case; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

# HiSCR90 Responses Over 48 Weeks With BKZ versus PBO (mNRI [HS-ABX])\*

**BE HEARD I** 





\*mNRI (HS-ABX): patients who took systemic antibiotics defined as rescue medication for HS by the principal investigator or who discontinued due to adverse events or lack of efficacy were treated as nonresponders at all subsequent visits. Other missing data were imputed via MI.

ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; HiSCR90: Hidradenitis Suppurativa Clinical Response of  $\geq$  90% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified non-responder imputation; Q2W: every 2 weeks; Q4W: every 4 weeks.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

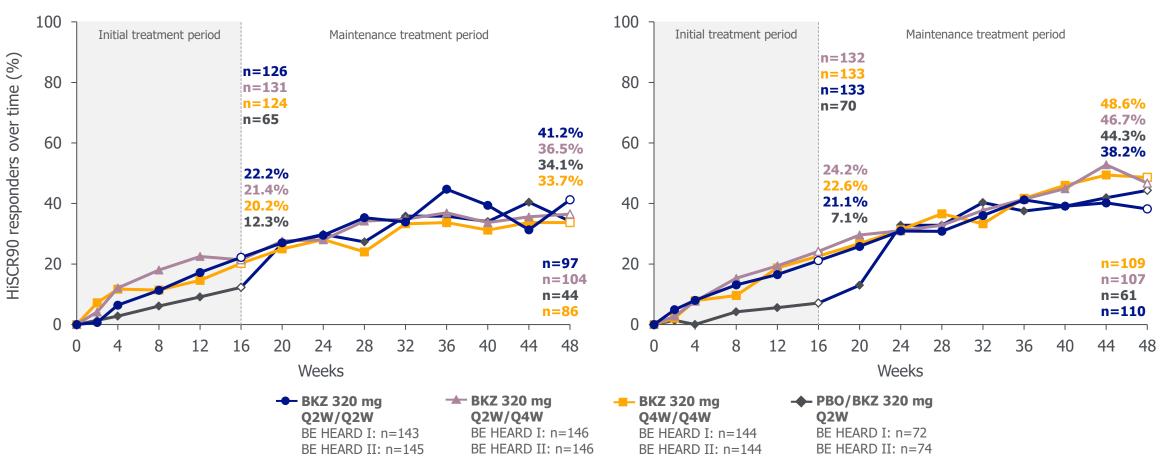
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### HiSCR90 Responses Over 48 Weeks With BKZ versus PBO (OC)\*

**BE HEARD II** 

**BE HEARD I** 



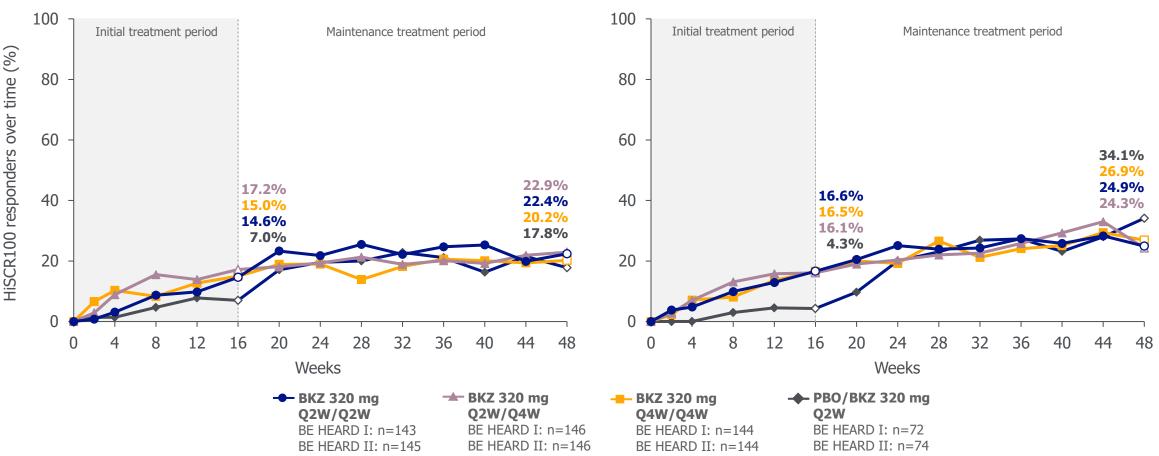
US-BK-2401902 | Date of preparation: November 2024

Inspired by patients. Driven by science. \*OC: all available data after an intercurrent event were summarized as recorded in the database, and all missing data were left missing. AN: abscess and inflammatory nodule; BKZ: bimekizumab; HiSCR90: Hidradenitis Suppurativa Clinical Response of ≥90% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; OC: observed case; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

# HiSCR100 Responses Over 48 Weeks With BKZ versus PBO (mNRI [HS-ABX])\*

**BE HEARD I** 





\*mNRI (HS-ABX): patients who took systemic antibiotics defined as rescue medication for HS by the principal investigator or who discontinued due to adverse events or lack of efficacy were treated as nonresponders at all subsequent visits. Other missing data were imputed via MI.

ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; DT: draining tunnel; HiSCR100: Hidradenitis Suppurativa Clinical Response of 100% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; MI: multiple imputation; mNRI: modified non-responder imputation; Q2W: every 2 weeks; Q4W: every 4 weeks.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

Driven by science.

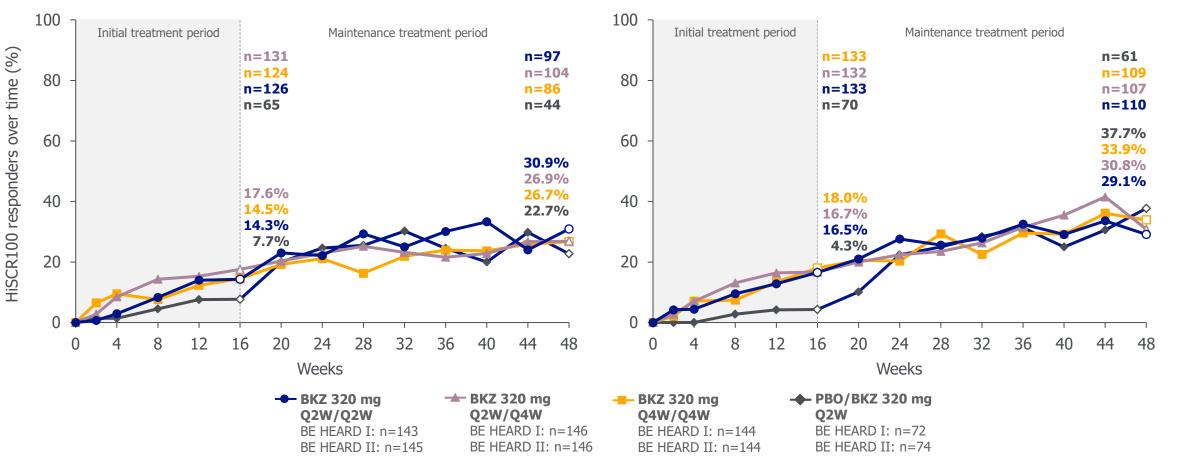
### HiSCR100 Responses Over 48 Weeks With BKZ versus PBO (OC)\*

**BE HEARD II** 

**BE HEARD I** 

Inspired by patients.

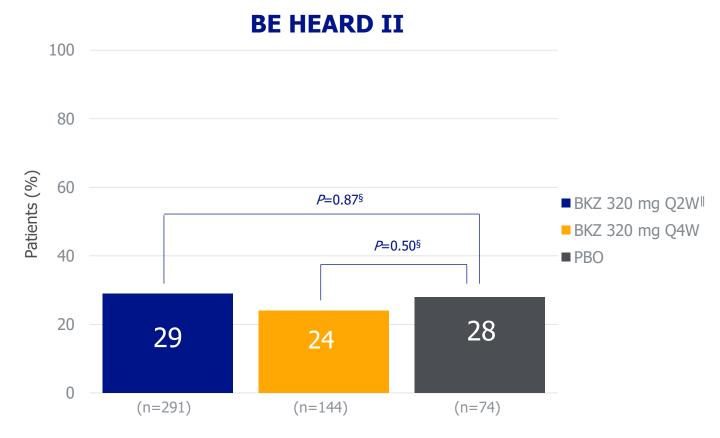
Driven by science.



\*OC: all available data after an intercurrent event were summarized as recorded in the database, and all missing data were left missing. AN: abscess and inflammatory nodule; BKZ: bimekizumab; DT: draining tunnel; HiSCR100: Hidradenitis Suppurativa Clinical Response of 100% reduction from baseline in the total abscess and inflammatory nodule count with no increase from baseline in abscess or draining tunnel count; OC: observed case; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

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#### **Proportion of Patients Experiencing Flare Across Treatment Groups by Week 16 (mNRI [ALL-ABX])**\*,<sup>+</sup>,<sup>‡</sup>



\*Data were imputed by means of an mNRI (ALL-ABX): patients who received any systemic antibiotic (new or increased dose) or who discontinued due to an adverse event or absence of efficacy were treated as nonresponders (or treated as experiencing flare for the flare endpoint) at all subsequent visits. Other missing data were imputed via multiple imputation (primary, prespecified analysis method). \**P*-values (from Wald tests) for adjusted responder rates obtained from logistic regression with treatment, Hurley stage at baseline, and baseline antibiotic use (and analgesic use for pain response only) as factors. \*Flare by Week 16 was defined as at least 1 occurrence of flare between baseline and up to Week 16, in which flare was defined as at least a 25% increase in abscess and inflammatory nodule count with an increase of at least 2 abscesses and inflammatory nodules relative to baseline. Flare was not a secondary endpoint in BE HEARD I. \**P*-value calculated based on statistical testing methodology, had the given BKZ regimen succeeded at hierarchical testing. <sup>II</sup>Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. ABX: antibiotics; BKZ: bimekizumab; mNRI: modified nonresponder imputation; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6



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# CfB in DLQI Total Score at Week 16—BKZ versus PBO (MI [ALL-ABX])\*,<sup>†</sup>

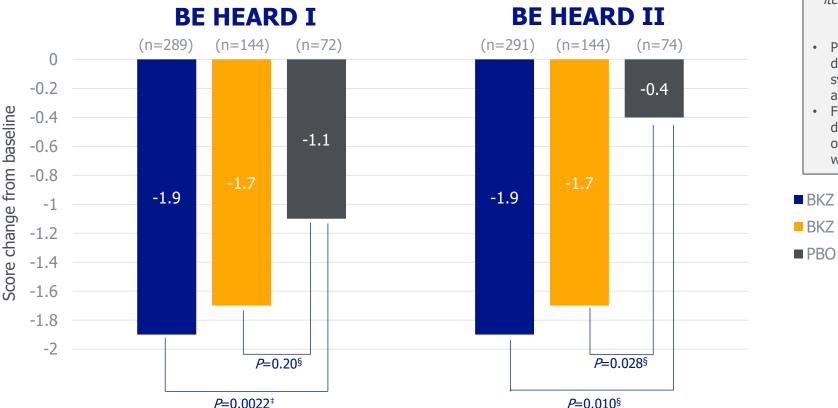


\*Data were imputed using multiple imputation (ALL-ABX): patients who discontinued study treatment due to absence of efficacy or adverse events, or who received any systemic antibiotics during the study (new or increased dose), were set to missing and subsequently imputed using multiple imputation. All other missing data were also imputed using multiple imputation. <sup>†</sup>*P*-values based on an ANCOVA with fixed effects of treatment, Hurley stage at baseline, baseline antibiotic use, and baseline DLQI total score as covariates. <sup>‡</sup>Statistically significant per the statistical hierarchy. <sup>§</sup>*P*-value calculated based on statistical testing methodology, had the given BKZ regimen succeeded at hierarchical testing. <sup>II</sup>Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. ABX: antibiotics; ANCOVA: analysis of covariance; BKZ: bimekizumab; CfB: change from baseline; DLQI: Dermatology Life Quality Index; MI: multiple imputation; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

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#### CfB in HSSDD Worst Skin Pain Score at Week 16—BKZ versus PBO (MI [ALL-ABX])\*,<sup>+</sup> HSSDD 5 item HS-specific, patient-



reported outcome tool

Worst skin pain, average skin pain, itch at its worst, smell or odor, and drainage or oozing

- Patients select a number that best describes the intensity of their HS symptoms in the past 24 hours on a 0-10 scale
- For each item, the HSSDD score is derived from the weekly averages of the daily scores from a given week

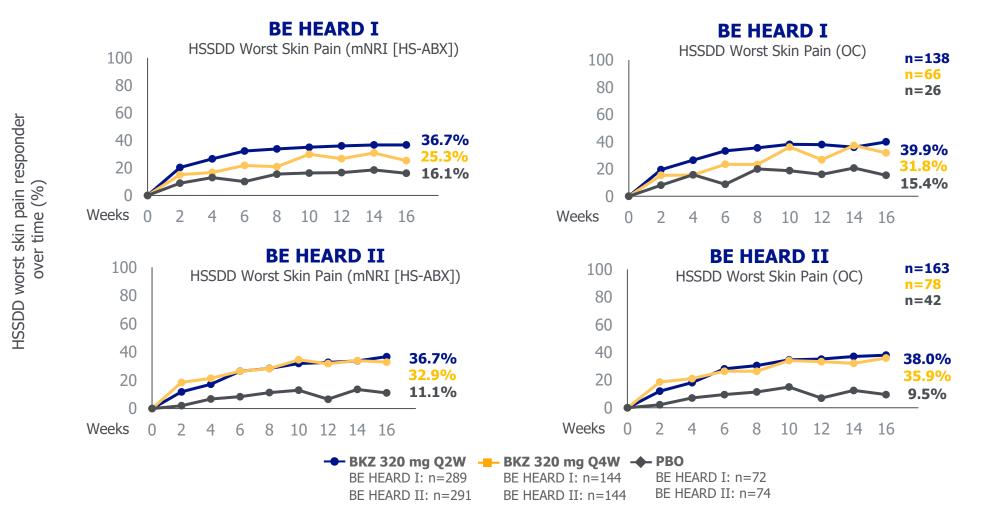
■ BKZ 320 mg O2W<sup>||</sup> BKZ 320 mg Q4W

\*Data were imputed using multiple imputation (ALL-ABX): patients who discontinued study treatment due to absence of efficacy or adverse events, or who received any systemic antibiotics during the study (new or increased dose), were set to missing and subsequently imputed using multiple imputation. All other missing data were also imputed using multiple imputation. \* P-values based on an ANCOVA with fixed effects of treatment, Hurley stage at baseline, baseline antibiotic use, analoesic use, and baseline HSSDD worst skin pain score as covariates. \*Statistically significant per the statistical hierarchy. §P-value calculated based on statistical testing methodology had the given bimekizumab regimen succeeded at hierarchical testing. Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. ABX: antibiotics; ANCOVA: analysis of covariance; BKZ: bimekizumab; CfB: change from baseline; HSSDD: Hidradenitis Suppurativa Symptom Daily Diary; MI: multiple imputation; PBO: placebo; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6



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## Change in HSSDD Worst Skin Pain Over 16 Weeks With BKZ versus PBO (mNRI [HS-ABX]/OC)\*<sup>,+,+</sup>

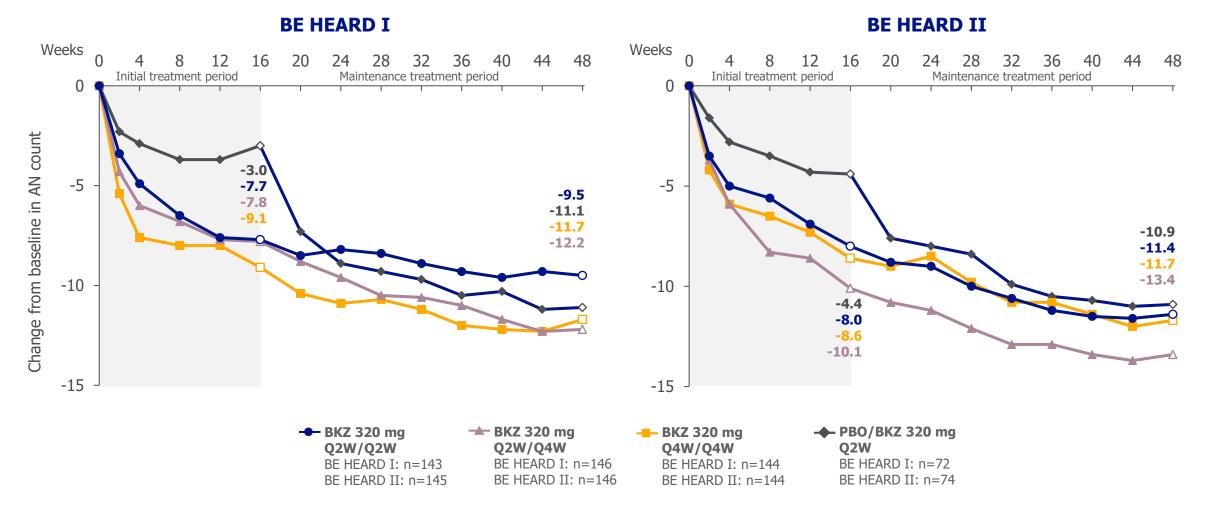


\*mNRI (HS-ABX): patients who received systemic antibiotics defined as rescue medication for HS by the principal investigator or who discontinued due to adverse events or lack of efficacy were treated as non-responders at all subsequent visits. Other missing data were imputed via MI. <sup>†</sup>OC: all available data after an intercurrent event were summarized as recorded in the database, and all missing data were left missing. <sup>‡</sup>Pain response was defined as an improvement from baseline in HSSDD weekly worst skin pain score of at least 3 points among patients with a baseline score of 3 or higher. ABX: antibiotics; BHI: BE HEARD I; BHII: BE HEARD II; BKZ: bimekizumab; HS: hidradenitis suppurativa; HSSDD: HS Symptom Daily Diary; MI: multiple imputation; mNRI: modified non-responder imputation; OC: observed case; Q2W: every 2 weeks; Q4W: every 4 weeks.

Inspired by **patients**.

Driven by science.

## Change in Abscess and Inflammatory Nodule Counts Over 48 Weeks (MI [HS-ABX])\*



Inspired by **patients.** Driven by **science**. \*Data were imputed using MI (HS-ABX): patients who discontinued study treatment due to lack of efficacy or adverse events, or who took systemic antibiotics as rescue medication for HS as defined by the principal investigator, were set to missing and subsequently imputed using MI. ABX: antibiotics; AN: abscess and inflammatory nodule; BKZ: bimekizumab; HS: hidradenitis suppurativa; MI: multiple imputation; Q2W: every 2 weeks; Q4W: every 4 weeks. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

# Change in Draining Tunnel Count Over 48 Weeks (MI [HS-ABX])\*

**BE HEARD I BE HEARD II** Weeks Weeks 8 12 32 48 8 12 16 20 24 28 32 36 40 48 24 28 36 16 Initial treatment period Maintenance treatment period Initial treatment period Maintenance treatment period 0 0 -1.6 Change from baseline in DT count -1.9 -1.9 -1 -1 -2.0 -1.9 -2.4 -2.1 -2.6 -2 -2 -2.0 -0.4 -1.3 -1.6 -1.6 -1.9 -3 -3 -0.4 -1.2 -4 -4 -5 -5 + PBO/BKZ 320 mg ----- BKZ 320 mg Q2W/Q2W 02W/04W 04W/04W **Q2W** BE HEARD I: n=144 BE HEARD I: n=72 BE HEARD I: n=143 BE HEARD I: n=146 BE HEARD II: n=146 BE HEARD II: n=74 BE HEARD II: n=145 BE HEARD II: n=144



\*Data were imputed using MI (HS-ABX): patients who discontinued study treatment due to lack of efficacy or adverse events, or who took systemic antibiotics as rescue medication for HS as defined by the principal investigator, were set to missing and subsequently imputed using MI. ABX: antibiotics; BKZ: bimekizumab; DT: draining tunnel; HS: hidradenitis suppurativa; MI: multiple imputation; Q2W: every 2 weeks; Q4W: every 4 weeks.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

### **BKZ Adverse Event Summary (1 of 2)**

|                                       | Initial treatment period only (Weeks 0-16)               |   |                              |  |   | Initial and maintenance treatment<br>period (Weeks 0–48) |                                     |                                     |  |
|---------------------------------------|--|---|------------------------------|--|---|--|-------------------------------------|-------------------------------------|--|
|                                       | BE HEARD I   |   |                              |  | BE HEARD II                                 |  |                                     | BE HEARD II                         |  |
| n (%)                                 | BKZ<br>320 mg Q2W <sup>*</sup><br>(n=286)<br>100 PY=0.87 | BKZ<br>320 mg Q4W<br>(n=143)<br>100 PY=0.43 | PBO<br>(n=72)<br>100 PY=0.22 | BKZ<br>320 mg Q2W <sup>*</sup><br>(n=290)<br>100 PY=0.88 | BKZ<br>320 mg Q4W<br>(n=142)<br>100 PY=0.44 | PBO<br>(n=74)<br>100 PY=0.23                             | BKZ Total<br>(n=494)<br>100 PY=3.99 | BKZ Total<br>(n=501)<br>100 PY=4.14 |  |
| Any TEAE                              | 192 (67)   | 94 (66)                                     | 48 (67)                      | 187 (64)   | 73 (51)                                     | 42 (57)  | 425 (86)                            | 412 (82)                            |  |
| Serious TEAE                          | 6 (2)  | 4 (3)                                       | 0                            | 9 (3)  | 3 (2)                                       | 0  | 40 (8)                              | 24 (5)                              |  |
| Discontinuation due to TEAE           | 10 (3)   | 6 (4)                                       | 1 (1)                        | 12 (4)   | 3 (2)                                       | 0  | 40 (8)                              | 27 (5)                              |  |
| Drug-related TEAE                     | 84 (29)  | 37 (26)                                     | 12 (17)                      | 105 (36)   | 38 (27)                                     | 8 (11)   | 227 (46)                            | 217 (43)                            |  |
| Severe TEAE                           | 8 (3)  | 3 (2)                                       | 0                            | 12 (4)   | 5 (4)                                       | 2 (3)  | 42 (9)                              | 39 (8)                              |  |
| Deaths                                | 0  | 0   | 0                            | 0  | 0   | 0  | 1 (<1)                              | 0                                   |  |
| Most common TEAEs                     |  |   |                              |  |   |  |                                     |                                     |  |
| Hidradenitis                          | 19 (7)   | 12 (8)                                      | 10 (14)                      | 25 (9)   | 13 (9)                                      | 5 (7)  | 96 (19)                             | 90 (18)                             |  |
| Coronavirus infection                 | 9 (3)  | 2 (1)                                       | 2 (3)                        | 11 (4)   | 3 (2)                                       | 0  | 71 (14)                             | 36 (7)                              |  |
| Oral candidiasis                      | 17 (6)   | 2 (1)                                       | 0                            | 24 (8)   | 5 (4)                                       | 0  | 47 (10)                             | 64 (13)                             |  |
| Diarrhea                              | 18 (6)   | 12 (8)                                      | 1(1)                         | 18 (6)   | 5 (4)                                       | 6 (8)  | 49 (10)                             | 36 (7)                              |  |
| Headache                              | 22 (8)   | 8 (6)                                       | 3 (4)                        | 18 (6)   | 7 (5)                                       | 7 (9)  | 43 (9)                              | 43 (9)                              |  |
| TEAEs of interest                     |  |   |                              |  |   |  |                                     |                                     |  |
| Infections and infestations           | 98 (34)  | 52 (36)                                     | 18 (25)                      | 95 (33)  | 39 (27)                                     | 12 (16)  | 301 (61)                            | 277 (55)                            |  |
| Serious infections                    | 1 (<1)   | 0   | 0                            | 0  | 0   | 0  | 11 (2)                              | 5 (1)                               |  |
| Opportunistic infections <sup>+</sup> | 1 (<1)   | 1 (<1)                                      | 0                            | 0  | 1 (<1)                                      | 0  | 8 (2)                               | 4 (<1)                              |  |



Safety set (Weeks 0–16) and active medication set (Weeks 0–48), as per MedDRA (version 19.0). \*Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. <sup>†</sup>Opportunistic infections were localized mucocutaneous events, as defined by internal company conventions. BKZ: bimekizumab; MedDRA: Medical Dictionary for Regulatory Activities; PBO: placebo; PY: patient-year; Q2W: every 2 weeks; Q4W: every 4 weeks; TEAE: treatment-emergent adverse event.

Kimball AB, et al. Lancet. 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

US-BK-2401902 | Date of preparation: November 2024

### **BKZ Adverse Event Summary (2 of 2)**

|  | Initial treatment period only (Weeks 0–16)   |   |                              |  |   | Initial and maintenance treatment<br>period (Weeks 0–48) |                                     |                                     |
|--|--|---|------------------------------|--|---|--|-------------------------------------|-------------------------------------|
|  | BE HEARD I                                   |   |                              |  | BE HEARD II                                 |  |                                     | <b>BE HEARD II</b>                  |
| n (%)  | BKZ<br>320 mg Q2W*<br>(n=286)<br>100 PY=0.87 | BKZ<br>320 mg Q4W<br>(n=143)<br>100 PY=0.43 | PBO<br>(n=72)<br>100 PY=0.22 | BKZ<br>320 mg Q2W <sup>*</sup><br>(n=290)<br>100 PY=0.88 | BKZ<br>320 mg Q4W<br>(n=142)<br>100 PY=0.44 | PBO<br>(n=74)<br>100 PY=0.23                             | BKZ Total<br>(n=494)<br>100 PY=3.99 | BKZ Total<br>(n=501)<br>100 PY=4.14 |
| TEAEs of interest<br>(continued)                     |  |   |                              |  |   |  |                                     |                                     |
| Fungal infections                                    | 34 (12)                                      | 17 (12)                                     | 1(1)                         | 41 (14)  | 18 (13)                                     | 0  | 112 (23)                            | 124 (25)                            |
| Candida infections                                   | 22 (8)                                       | 7 (5)                                       | 0                            | 26 (9)   | 15 (11)                                     | 0  | 67 (14)                             | 86 (17)                             |
| Oral candidiasis                                     | 17 (6)                                       | 2 (1)                                       | 0                            | 24 (8)   | 5 (4)                                       | 0  | 47 (10)                             | 64 (13)                             |
| Neutropenia  | 0  | 0   | 0                            | 0  | 0   | 0  | 1 (<1)                              | 0                                   |
| Hypersensitivity reaction (SMQ, narrow) <sup>+</sup> | 30 (10)                                      | 12 (8)                                      | 4 (6)                        | 32 (11)  | 9 (6)                                       | 1 (1)  | 105 (21)                            | 84 (17)                             |
| Dermatitis and eczema                                | 14 (5)                                       | 6 (4)                                       | 3 (4)                        | 21 (7)   | 8 (6)                                       | 1 (1)  | 62 (13)                             | 60 (12)                             |
| Serious hypersensitivity reaction                    | 0  | 0   | 0                            | 0  | 0   | 0  | 0                                   | 1 (<1)                              |
| Adjudicated SIB                                      | 0  | 2 (1)                                       | 0                            | 1 (<1)   | 0   | 0  | 5 (1)                               | 1 (<1)                              |
| Adjudicated MACE                                     | 0  | 0   | 0                            | 0  | 0   | 0  | 3 (<1)                              | 0                                   |
| Hepatic events <sup>‡</sup>                          | 8 (3)  | 2 (1)                                       | 4 (6)                        | 6 (2)  | 3 (2)                                       | 0  | 25 (5)                              | 19 (4)                              |
| >5× ULN elevation of<br>AST/ALT <sup>§</sup>         | 3/284 (1)                                    | 0/140                                       | 0/71                         | 0/288  | 0   | 0/73   | 4/489 (<1)                          | 4/499 (<1)                          |
| Malignancies   | 0  | 0   | 0                            | 1 (<1)   | 0   | 0  | 1 (<1)                              | 3 (<1)                              |
| Definite or probable adjudicated IBD                 | 0  | 1 (<1)                                      | 0                            | 1 (<1)   | 2 (1)                                       | 0  | 3 (<1)                              | 4 (<1)                              |



Safety set (Weeks 0–16) and active medication set (Weeks 0–48), as per MedDRA (version 19.0). \*Data were pooled for all patients randomly assigned to BKZ 320 mg Q2W for the first 16 weeks. \*Using the narrow SMQ definition of hypersensitivity reaction events. \*The hepatic events category includes events in the SMQ drug-related hepatic disorders comprehensive search SMQ, excluding the 2 sub-SMQs of benign liver neoplasms (including cysts and polyps) SMQ and malignant and unspecified liver neoplasms SMQ. <sup>§</sup>No elevations of greater than 5 times the ULN were adjudicated to be highly likely or definitely related to BKZ. ALT: alanine aminotransferase; AST: aspartate aminotransferase; BKZ: bimekizumab; IBD: inflammatory bowel disease; MACE: major adverse cardiovascular events; MedDRA: Medical Dictionary for Regulatory Activities; PBO: placebo; PY: patient-year; Q2W: every 2 weeks; Q4W: every 4 weeks; SIB: suicidal ideation and behavior; SMQ: Standardized MedDRA Query; TEAEs: treatment-emergent adverse events; ULN: upper limit of normal. Kimball AB, et al. *Lancet.* 2024;403(10443):2504-2519. doi:10.1016/S0140-6736(24)00101-6

#### Limitations

*Kimball AB, et al.* (**2024**) Efficacy and safety of bimekizumab in patients with moderate-to-severe hidradenitis suppurativa (**BE HEARD I** and **BE HEARD II**): two 48-week, randomised, double-blind, placebo-controlled, multicentre phase 3 trials

- The relatively short initial 16-week placebo-controlled period might affect the interpretability of later efficacy results
- A lack of an active comparator across 48 weeks of treatment
- Evaluating the efficacy of a treatment for HS in the presence of rescue systemic antibiotic is challenging. The methods used to calculate efficacy rates under these conditions have not yet been standardized across trials in hidradenitis suppurativa
- In clinical trials of patients with hidradenitis suppurativa, a patient's underlying disease severity or multifactorial etiology of underlying disease could lead to variability in observed efficacy and subsequent interpretation of results
- Hidradenitis suppurativa head-to-head comparator studies are scarce. Although numerically greater proportions of patients met HiSCR50 by week 48 in BE HEARD I and II than in other long-term phase 3 trials of hidradenitis suppurativa (using observed case analysis), further research is needed to formally compare these outcomes between biologic therapies because of the inevitable heterogeneity in trial populations and differing analysis methods used across studies

Efficacy and safety of bimekizumab in patients with moderate-to-severe hidradenitis suppurativa (**BE HEARD I** and **BE HEARD II**): two 48-week, randomised, double-blind, placebo-controlled, multicentre phase 3 trials

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- **RR**, **PJ**, **PD**, **EM**, **LP**: Employees and shareholders of **UCB Pharma**.
- **CM**: Former employee and shareholder of **UCB Pharma**.

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#### References

• BIMZELX<sup>®</sup> [prescribing information]. Smyrna, GA: UCB, Inc.

- Kimball AB, Jemec GBE, Sayed CJ, et al. Efficacy and safety of bimekizumab in patients with moderate-to-severe hidradenitis suppurativa (BE HEARD I and BE HEARD II): two 48-week, randomised, double-blind, placebo-controlled, multicentre Phase 3 trials. *Lancet*. 2024;403(10443):2504-2519.
- Kimball AB, et al. HiSCR (Hidradenitis Suppurativa Clinical Response): a novel clinical endpoint to evaluate therapeutic outcomes in patients with hidradenitis suppurativa from the placebo-controlled portion of a phase 2 adalimumab study. *J Eur Acad Dermatol Venereol.* 2016;30(6):989-994.

