

Bimekizumab cumulative clinical benefit in patients with moderate to severe hidradenitis suppurativa through 1 year of the BE HEARD I&II phase 3 trials

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Synopsis

- Hidradenitis suppurativa (HS) is a chronic, inflammatory skin disease which has a significant impact on health-related quality of life (HRQoL).¹
- Bimekizumab (BKZ) is a humanized IgG1 monoclonal antibody that selectively inhibits interleukin (IL)-17F in addition to IL-17A.²
- Evaluating the cumulative benefit of treatment over time using area under the curve (AUC) analyses captures the speed, level and durability of patients' responses and provides a more holistic assessment of patient's disease compared with assessment at specific timepoints only.³

Objective

To report the cumulative benefit of BKZ treatment on HS clinical response (HiSCR) through 16 and 48 weeks using AUC analyses.

Methods

- Pooled data from the randomized, double-blind, placebo (PBO)-controlled, multicenter BE HEARD I&II trials included an initial (Week 0–16) and maintenance (Week 16–48) treatment period (Figure 1).⁴
- Cumulative clinical benefit was estimated as the total AUC through Week 48 for patients achieving HiSCR50/75/90 (≥50/75/90% reduction in the total abscess and inflammatory nodule count from baseline with no increase from baseline in abscess or draining tunnel count).
- The estimated number of days for which patients achieved each response was calculated as the proportion of the total possible AUC for each outcome multiplied by the total number of days in the time period (Weeks 0–16: 112 days; Weeks 16–48: 224 days; Weeks 0–48: 336 days).
- Data are reported as observed case (OC).

Results

- Overall, 868 patients were randomized to receive BKZ (BKZ Q2W/Q2W: N=288, BKZ Q2W/Q4W: N=292, and BKZ Q4W/Q4W: N=288) and 146 patients were randomized to receive PBO/BKZ Q2W. Patients randomized to BKZ from baseline were included in the BKZ Total group.
- Through 16 weeks, the total number of days patients achieved HiSCR50/75/90 was approximately twice as high in the BKZ groups vs PBO (Figure 2).
- Clinically meaningful cumulative benefits in HiSCR50/75/90 were observed across the BKZ from baseline treatment arms through Week 48. Benefit was also demonstrated from Weeks 16–48 for Week 16 PBO to BKZ switchers (Figure 2).

Conclusions

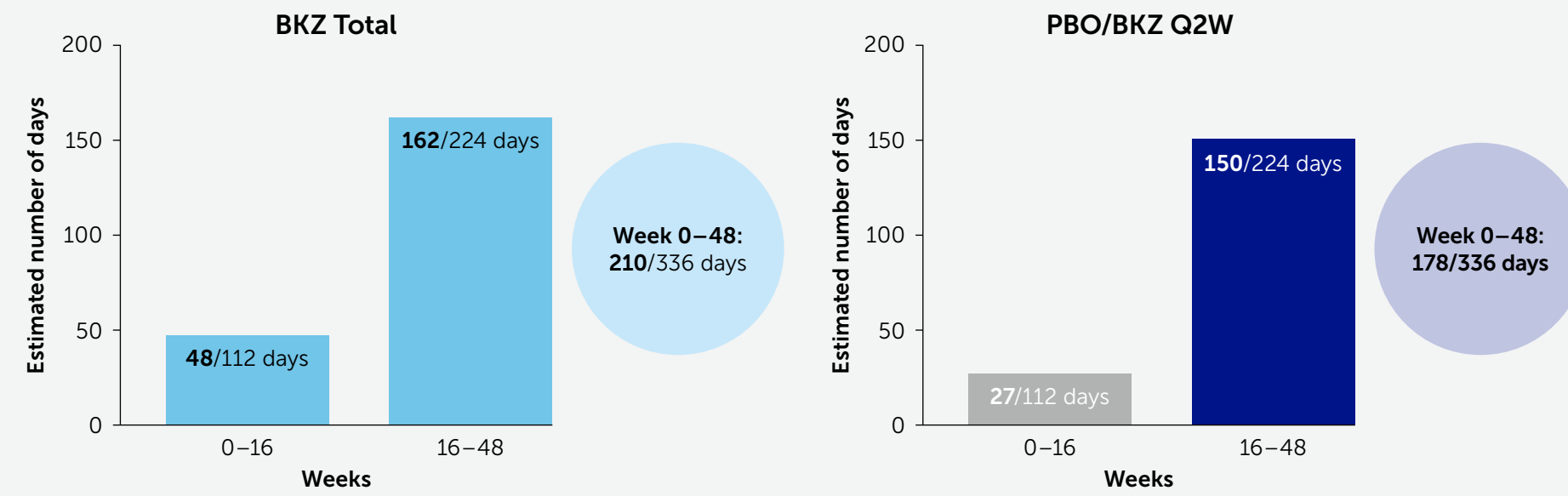
Higher levels of cumulative clinical benefit were observed for patients who received bimekizumab through Week 16 compared with those who received placebo. Benefit increased substantially from Week 16 through Week 48 for both patients receiving bimekizumab from baseline and Week 16 placebo to bimekizumab switchers.

However, the total number of days of clinical outcome achievement remained higher in those on bimekizumab from baseline vs placebo to bimekizumab switchers.

While HS is characterized by significant fluctuations in course, these results demonstrate the rapid, high-level, and durable responses that can be obtained with bimekizumab.

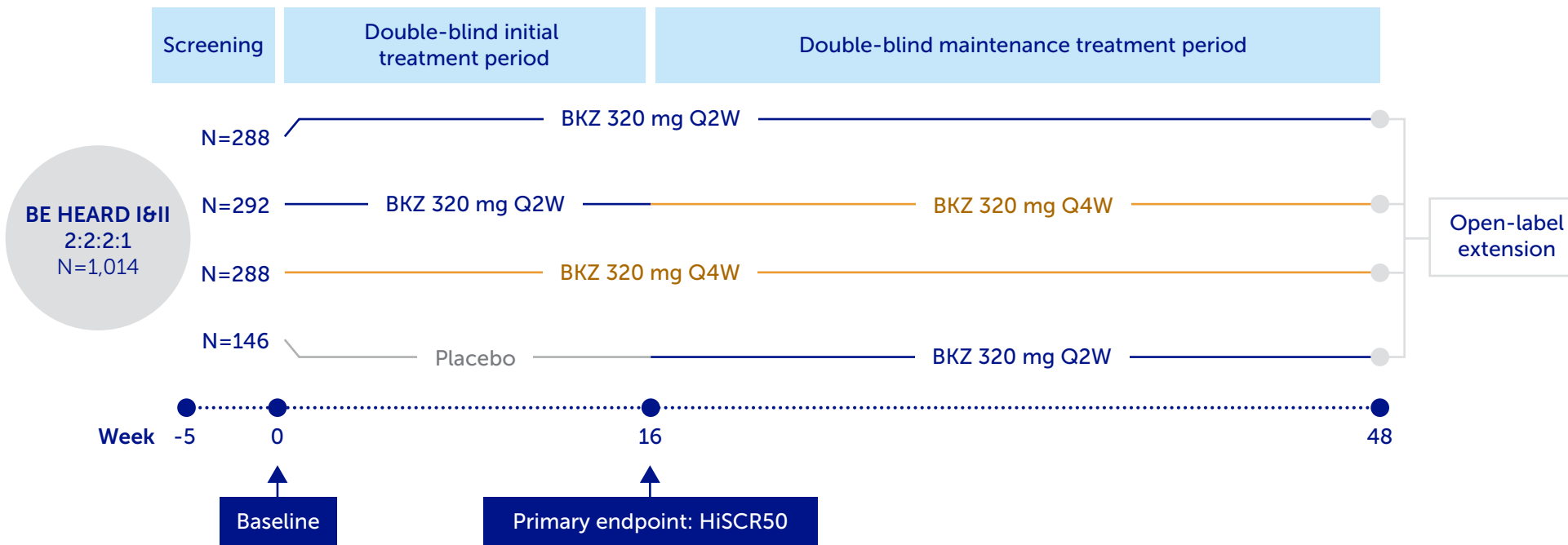
Summary

Estimated number of days for which patients achieved HiSCR50 from Weeks 0–48 (OC)



The cumulative clinical benefit of BKZ through 48 weeks was evident for both patients receiving BKZ from baseline and PBO to BKZ switchers. The total number of days of clinical outcome achievement remained higher in those on BKZ from baseline vs PBO to BKZ switchers, highlighting the importance of early treatment.

Figure 1 BE HEARD I&II study design



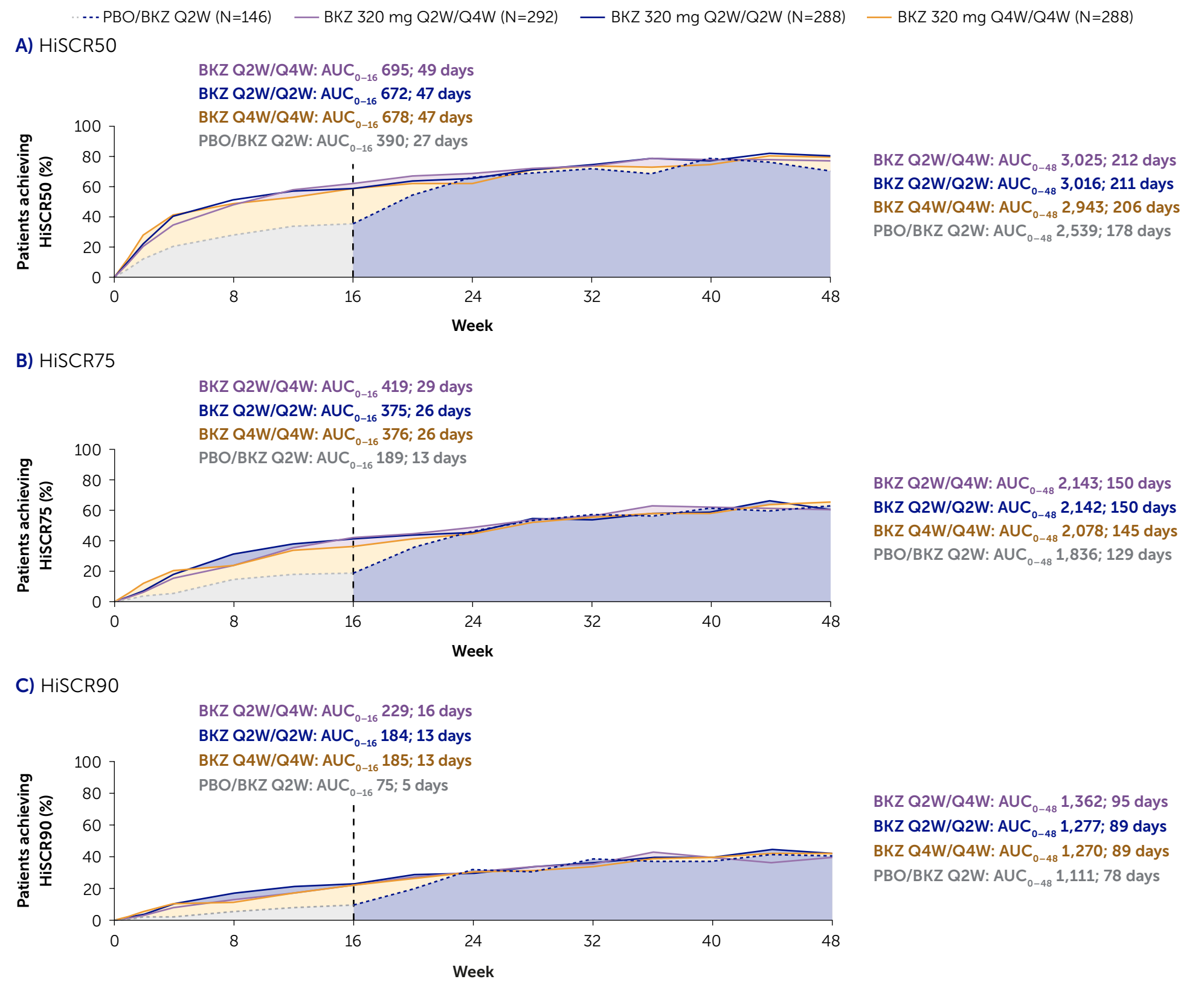
At baseline, 1,014 adult patients were randomized 2:2:2:1 (initial [Weeks 0–16]/maintenance [Weeks 16–48]) to receive BKZ 320 mg every 2 weeks (Q2W)/Q2W, BKZ Q2W/every 4 weeks (Q4W), BKZ Q4W/Q4W or PBO/BKZ Q2W.

AUC: area under the curve; BKZ: bimekizumab; HRQoL: health-related quality of life; HS: hidradenitis suppurativa; HiSCR: HS Clinical Response; HiSCR50/75/90: ≥50/75/90% reduction 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.

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References: ¹Zouboulis CC et al. J Eur Acad Dermatol Venerol 2015;619–44; ²Adams R et al. Front Immunol 2020;11:1894; ³Warren RB et al. J Am Acad Dermatol 2020;82:1138–49; ⁴Kimball AB et al. Lancet 2024;403:2504–19 (NCT04242446, NCT04242498). Author Contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: AG, AA, HS, AMC, MP, TN, SW, JL, RR, NT, CCZ. Drafting of the publication, or reviewing it critically for important intellectual content: AG, AA, HS, AMC, MP, TN, SW, JL, RR, NT, CCZ. Final approval of the publication: AG, AA, HS, AMC, MP, TN, SW, JL, RR, NT, CCZ. Author Disclosures: AG: Advisor and receives honoraria for AbbVie, Boehringer Ingelheim, Incyte, Insmed, Novartis, Pfizer, Sonoma Biotherapeutics, UCB, and Union Therapeutics. Receives research grants from AbbVie, CHORD COUSIN Collaboration (C3), and UCB. AA: Has served as a research investigator and/or scientific advisor to AbbVie, Almirall, Arcutis, ASLAN, Boehringer Ingelheim, Bristol Myers Squibb, Dermavant, Dermira, Eli Lilly and Company, EPI, Incyte, Janssen, LEO Pharma, Nimbus, Novartis, Ortho Dermatologics, Pfizer, Regeneron, Sun Pharma, Sanofi, and UCB. HS: Has served as a scientific adviser and/or clinical study investigator for AbbVie, Acelyrin, Alumis, Boehringer Ingelheim, Bristol Myers Squibb, Dermavant, Eli Lilly and Company, Galderma, Incyte, LEO Pharma, Novartis, Pfizer, Sanofi, Genzyme, Sun Pharma, and UCB. AMC: Received honoraria and/or travel grants and/or acted as an advisory board member for AbbVie, Almirall, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Eli Lilly and Company, Janssen-Cilag, LEO Pharma, L'Oréal, Novartis, Sanofi, and UCB. Worked as a principal investigator in clinical trials supported by AbbVie, Bristol Myers Squibb, Galderma, Janssen, Eli Lilly and Company, Novartis, Sanofi, and UCB. MP: Received honoraria from AbbVie, Beiersdorf, Bristol Myers Squibb, CSL, Galderma, Janssen, LEO Pharma, MSD, Novartis, and UCB. Advisory board/speaker services and department received grants from AbbVie, Boehringer Ingelheim, Eli Lilly and Company, Galderma, Janssen, InflaRx, Ipsen, LEO Pharma, MSD, Novartis, and UCB for investigator services. TN: Received honoraria from AbbVie, Sanofi, Eli Lilly and Company, Pfizer, LEO Pharma, Sun Pharma, Torii, Otsuka, Novartis, and UCB. SW: JL, RR, NT, Employees and shareholders of UCB. CCZ: 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, CSK, InflaRx, MSD, Novartis, Relaxera, and UCB; received honoraria as a consultant for Almirall, Boehringer Ingelheim, Eli Lilly and Company, Idorsia, Incyte, L'Oréal, MSD, NAOS-BIODERMA, Novartis, Pfizer, PPM, Sanofi, and UCB; received lecture fees from Almirall, Amgen, Biogen, Novartis, Pfizer, and UCB; President of the ALLOCATE Skin group of the ERN Skin, chair of the ARHS Task Force group of the EADV and board member of the International Society for Behçet's Disease; Editor of the EADV News; co-copyright holder of IHS4 on behalf of the EHSF e.V. Acknowledgements: These studies were funded by UCB. We thank the patients and their caregivers in addition to the investigators and their teams who contributed to these studies. The authors acknowledge May-Li MacKinnon, PhD, Costello Medical, Manchester, UK for medical writing and editorial assistance and the Costello Medical Creative team for graphic design assistance. All costs associated with development of this poster were funded by UCB.

Figure 2 Total AUC and cumulative benefit through 16 weeks and 48 weeks for clinical outcomes (OC)



Data are presented as the total AUC and estimated mean number of days that patients achieved HiSCR50/75/90 through the stated intervals (0–16, 0–48). HiSCR50/75/90 was achieved at a given visit if there was a ≥50/75/90% reduction in the total abscess and inflammatory nodule count from baseline with no increase from baseline in abscess or draining tunnel count. N represents number of patients with a non-missing lesion or count assessment in the given week, and percentages are calculated accordingly.



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