Bimekizumab 3-year efficacy in high-impact areas in moderate to severe plaque psoriasis: Pooled results from five phase 3/3b trials

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Objective

To evaluate scalp, palmoplantar, and nail outcomes over 3 years from five BKZ phase 3/3b trials in patients with moderate to severe plaque psoriasis.

Introduction

- Psoriatic lesions of the scalp, palms, and soles, and psoriatic changes in the nails are associated with reduced health-related quality of life and treatment challenges.¹
- As psoriasis is a chronic disease, and loss of response is observed with some therapies over time, studying long-term efficacy of new treatments is important.²
- High levels of complete clearance in these high-impact areas have previously been reported over 2 years of bimekizumab (BKZ) treatment;³ here, we report responses over 3 years.

Methods

- Data were pooled from BE VIVID/BE READY/BE SURE (52/56/56 weeks), 96 weeks of their open-label extension (OLE), BE BRIGHT, and 144 weeks of the BE RADIANT phase 3b trial (**Figure 1**).4-8
- Data are reported for patients randomized to BKZ 320 mg every 4 weeks (Q4W) to Week 16, who then
 received BKZ Q4W or Q8W in the maintenance and OLE periods (BKZ Total); data are also reported for
 the subgroup of patients who received BKZ Q4W/Q8W/Q8W (initial/maintenance/OLE) dosing.
- Included patients had moderate to severe scalp or palmoplantar involvement
 (i.e., scalp or palmoplantar [pp-] Investigator's Global Assessment [IGA] score ≥3) or a modified Nail
 Psoriasis Severity Index (mNAPSI) score >10 at baseline (see Summary).
- Proportions of patients who achieved complete regional clearance (scalp IGA 0, pp-IGA 0, mNAPSI 0) are reported through Year 3 (OLE Week 96).
- Data are reported using modified non-responder imputation (mNRI): patients who discontinued due to lack of efficacy or treatment-related adverse events were considered non-responders at subsequent timepoints; multiple imputation was used for all other missing data. Data are also reported using NRI and as observed case (OC).

Results

- Baseline characteristics for included patients are presented in Table 1.
- Among patients with scalp IGA ≥3 at baseline, high levels of complete clearance were attained after 16 weeks and sustained through 3 years (**Figure 2A**).
- Similar trends were observed in the proportions of patients achieving complete palmoplantar clearance among those with pp-IGA ≥3 at baseline (**Figure 2B**).
- Among patients with mNAPSI >10 at baseline, levels of complete clearance increased through Year 1
 and were sustained to Year 3; rates of clearance were reflective of the longer timescale required for
 nail growth and repair (Figure 2C).
- Similar trends were observed in the subgroup of patients who received BKZ Q4W/Q8W/Q8W dosing (Figure 2A–C).

Conclusions

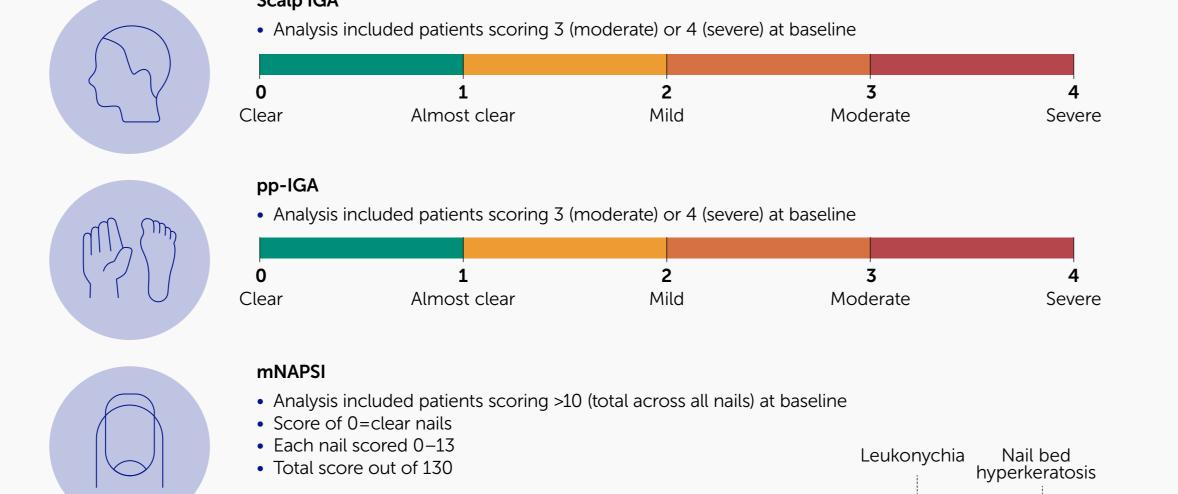
A high percentage of BKZ-treated patients achieved and maintained complete clearance of scalp and palmoplantar psoriasis over 3 years. The majority of patients achieved complete nail clearance, with numerical increases from Year 1 to Year 3.

Clearance rates were high, regardless of BKZ dosing regimen.

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Summary

Tools used to assess high-impact area disease severity



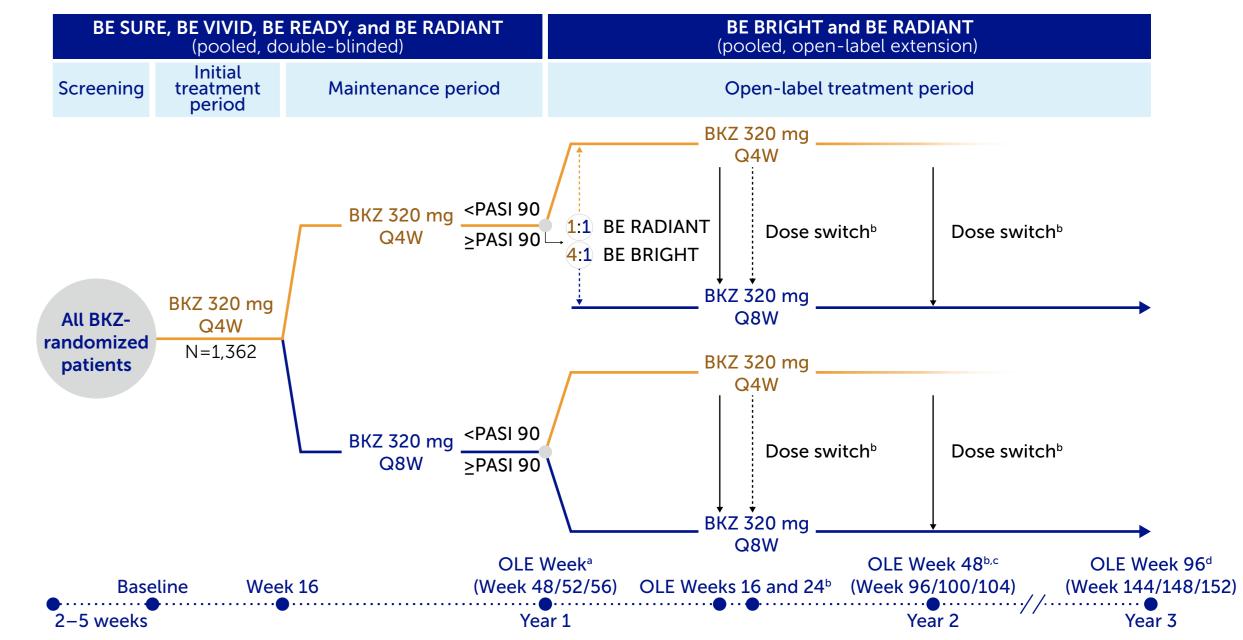
Over 3 years, high percentages of patients treated with bimekizumab achieved complete clearance of scalp (83.7%), palmoplantar (91.6%), and nail (69.5%) psoriasis, regardless of dosing regimen.

Table 1 Baseline characteristics

	Scalp IGA ≥3		pp-IGA ≥3		mNAPSI >10	
	BKZ Total (N=821)	BKZ Q4W/Q8W/ Q8W (N=277)	BKZ Total (N=193)	BKZ Q4W/Q8W/ Q8W (N=52)	BKZ Total (N=377)	BKZ Q4W/Q8W/ Q8W (N=129)
Age (years) , mean <u>+</u> SD	44.8 ± 13.7	44.0 <u>+</u> 13.9	45.0 <u>+</u> 12.9	43.8 ± 11.5	44.8 ± 13.1	44.5 <u>+</u> 13.2
Male , n (%)	569 (69.3)	192 (69.3)	144 (74.6)	41 (78.8)	316 (83.8)	107 (82.9)
White, n (%)	715 (87.1)	259 (93.5)	162 (83.9)	49 (94.2)	328 (87.0)	123 (95.3)
Weight (kg) , mean <u>+</u> SD	89.8 ± 21.4	88.8 <u>+</u> 21.0	85.9 <u>+</u> 18.7	87.0 <u>+</u> 17.4	92.2 <u>+</u> 20.7	92.1 <u>+</u> 20.6
Duration of psoriasis (years) , mean \pm SD	18.1 <u>+</u> 12.6	18.6 <u>+</u> 12.4	17.7 ± 12.1	18.8 <u>+</u> 9.8	18.9 <u>+</u> 12.4	18.8 ± 12.2
PASI, mean <u>+</u> SD	21.4 <u>+</u> 8.0	20.9 <u>+</u> 7.7	23.9 ± 9.0	26.9 <u>+</u> 10.6	22.4 <u>+</u> 8.5	21.6 ± 8.0
BSA (%) , mean <u>+</u> SD	26.6 <u>+</u> 16.0	24.5 <u>+</u> 13.5	30.5 <u>+</u> 17.4	31.6 <u>+</u> 15.6	28.9 <u>+</u> 17.6	25.7 <u>+</u> 13.8
IGA score, n (%) 3: moderate 4: severe	527 (64.2) 294 (35.8)	189 (68.2) 88 (31.8)	109 (56.5) 83 (43.0)	24 (46.2) 27 (51.9)	212 (56.2) 163 (43.2)	75 (58.1) 53 (41.1)
DLQI total score , mean <u>+</u> SD	10.8 ± 6.5	10.7 <u>+</u> 6.6	11.3 ± 7.1	11.8 ± 7.0	10.7 ± 6.6	11.1 ± 6.0
Scalp IGA score, mean <u>+</u> SD	3.2 ± 0.4	3.2 <u>+</u> 0.4	3.0 <u>+</u> 0.8	3.1 <u>+</u> 0.7	2.8 ± 1.0	2.8 ± 0.9
mNAPSI score, mean <u>+</u> SD	11.6 ± 17.8	11.1 <u>+</u> 16.2	21.9 ± 28.0	22.9 <u>+</u> 23.7	31.0 ± 20.5	28.2 <u>+</u> 16.9
pp-IGA score , mean <u>+</u> SD	0.9 ± 1.3	0.8 <u>+</u> 1.2	3.2 ± 0.4	3.2 ± 0.4	1.3 ± 1.4	1.1 ± 1.4
Any prior systemic therapy, n (%)	635 (77.3)	209 (75.5)	163 (84.5)	45 (86.5)	297 (78.8)	100 (77.5)
Prior biologic therapy, n (%)	306 (37.3)	95 (34.3)	70 (36.3)	18 (34.6)	139 (36.9)	41 (31.8)

Baseline data are reported for patients who had scalp IGA \geq 3, pp-IGA \geq 3, or mNAPSI >10 at baseline and entered the OLEs.

Figure 1 Study design (included patients)

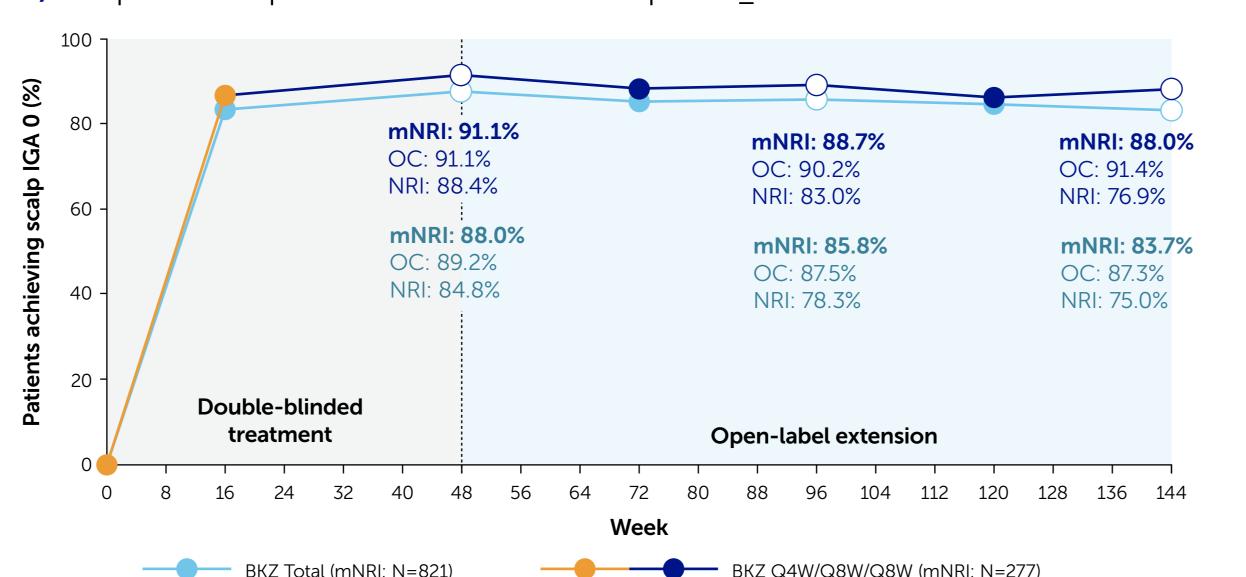


BKZ 320 mg Q4W who achieved ≥PASI 90 at the end of the feeder studies (BE RADIANT: Week 48; BE VIVID: Week 52; BE READY and BE SURE: Week 56) were randomized 1:1 in BE RADIANT and 4:1 in BE BRIGHT to BKZ 320 mg Q4W or Q8W; patients receiving BKZ 320 mg Q8W who achieved ≥PASI 90 at the end of the feeder studies remained on Q8W dosing; bIn BE RADIANT, at OLE Week 16 or the next scheduled clinic visit, all patients switched to BKZ Q8W after the implementation of a protocol amendment; in BE BRIGHT, at OLE Week 24, patients achieving ≥PASI 90 could switch to Q8W at the investigator's discretion, and all patients were re-assigned to BKZ Q8W at OLE Week 48 or the next scheduled visit via protocol amendment; cOLE Week 48 (the end of Year 2) corresponds to BE RADIANT Week 96, BE VIVID/BE BRIGHT Week 100, and BE READY/BE BRIGHT and BE SURE/BE BRIGHT Week 104; dOLE Week 96 (the end of Year 3) corresponds to BE RADIANT Week 144, BE VIVID/BE BRIGHT Week 148, and BE READY/BE BRIGHT and BE SURE/BE BRIGHT Week 152.

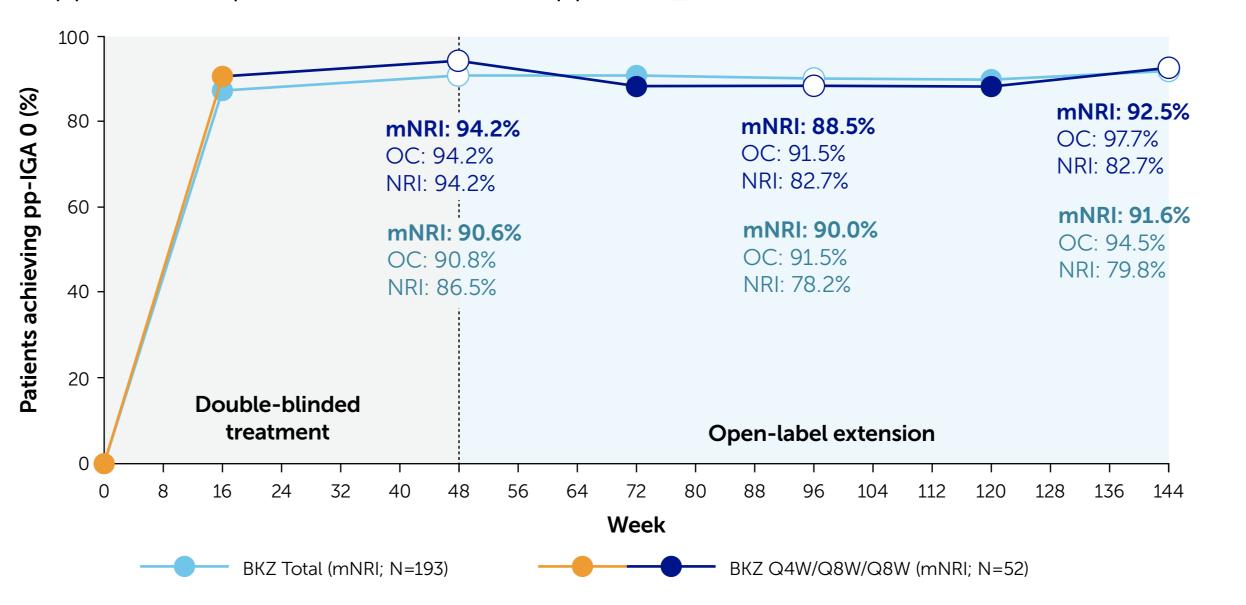
As this analysis only includes patients randomized to receive BKZ at baseline, only BKZ-randomized patients are included in this study design. Patients receiving

ure 2 Complete clearance of scalp, palmoplantar, or nail psoriasis over 3 years (mNRI, NRI, OC)

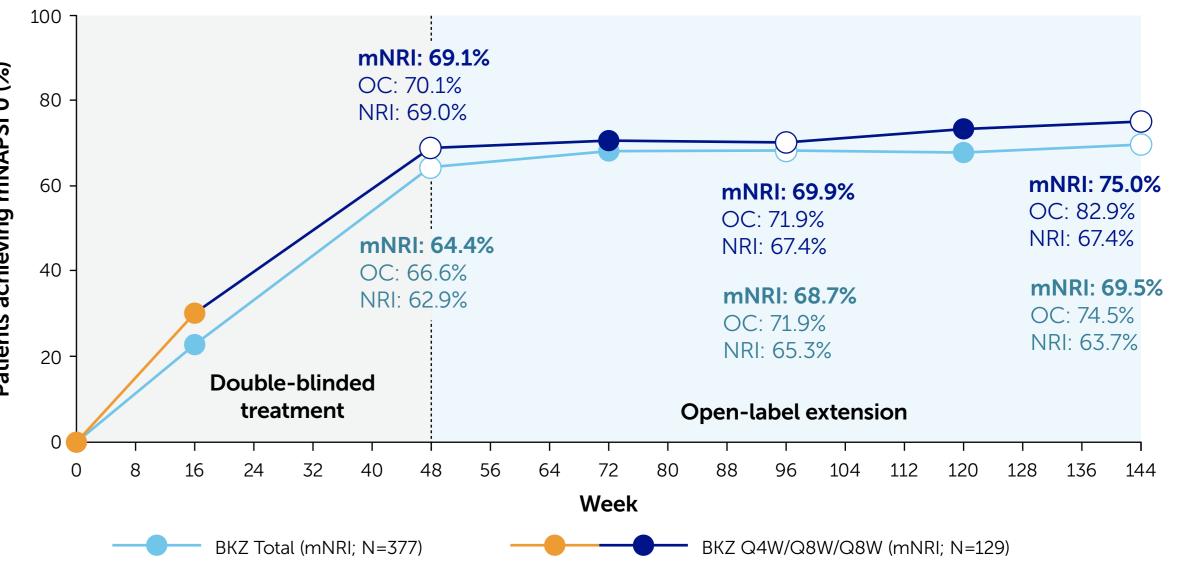
A) Scalp IGA 0 in patients with baseline scalp IGA >3



B) pp-IGA 0 in patients with baseline pp-IGA >3



C) mNAPSI 0 in patients with baseline mNAPSI >10



BKZ Total patients were randomized to receive BKZ 320 mg Q4W to Week 16, then received BKZ either Q4W or Q8W in the maintenance period and OLE. BKZ Q4W/Q8W/Q8W patients received BKZ 320 mg Q4W to Week 48 in BE VIVID were included at the Week 48 timepoint. The BE READY and BE SURE feeder studies had a duration of 56 weeks, BE VIVID had a duration of 52 weeks, and BE RADIANT had a duration of 48 weeks; to pool the data across all four studies were otherwise not included. Therefore, timepoints after Week 48 in this figure are from the BE BRIGHT/BE RADIANT OLEs.

BKZ: bimekizumab; **BSA:** body surface area; **DLQI:** Dermatology Life Quality Index; **IGA:** Investigator's Global Assessment; **mNAPSI:** modified Nail Psoriasis Severity Index; **pp:** palmoplantar; **Q4W:** every 4 weeks; **Q8W:** every 8 weeks; **SD:** standard deviation.

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