Bimekizumab clinical efficacy translates into benefits in patient-perceived symptoms and quality of life in patients with moderate to severe plaque psoriasis: Two-year data from BE RADIANT

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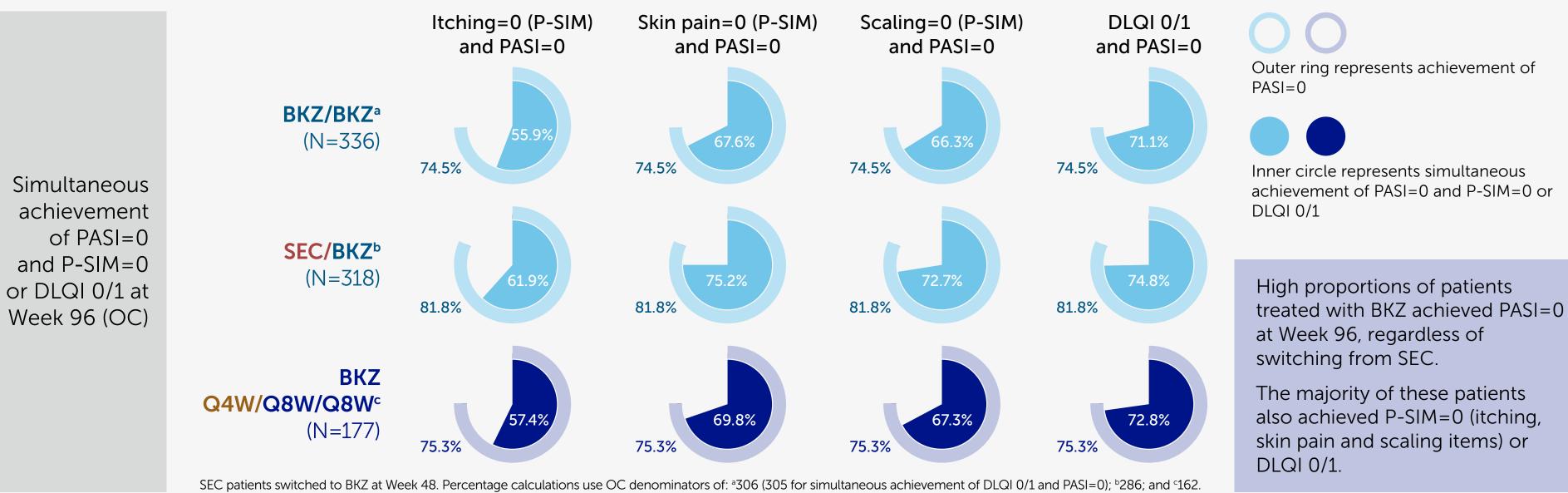
Objective

To examine how achievement of absolute Psoriasis Area and Severity Index (PASI) thresholds translates into patient-perceived symptom and health-related quality of *life (HRQoL) benefits in bimekizumab (BKZ)-treated patients* with moderate to severe plaque psoriasis, including patients switching from secukinumab (SEC).

Background

• BKZ, a monoclonal IgG1 antibody that selectively inhibits IL-17F in addition to IL-17A,¹ has demonstrated rapid and superior efficacy in the treatment of patients with moderate to severe plaque psoriasis in head-to-head studies versus ustekinumab, adalimumab and SEC, with established long-term durability of response.²⁻⁶

Summary

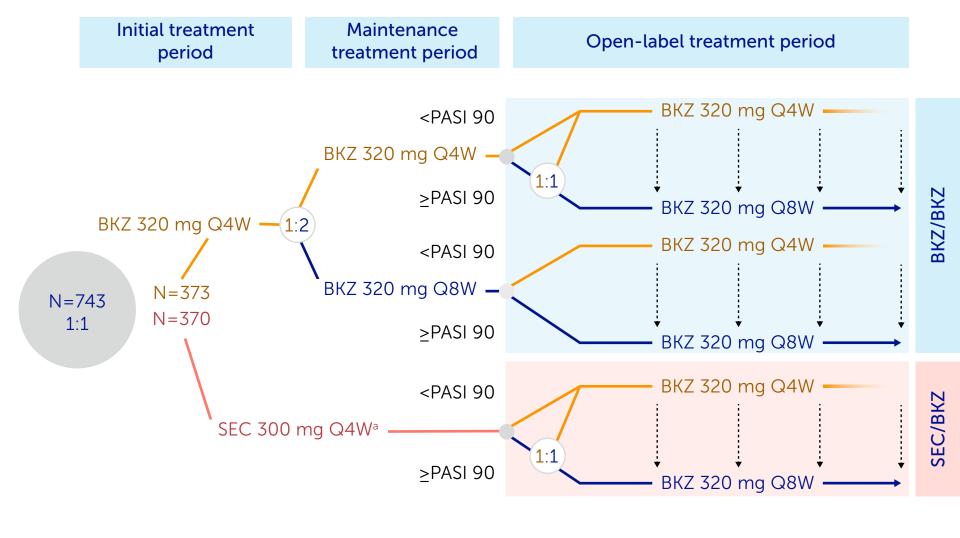


- Psoriasis can negatively impact patients' HRQoL through physical and psychological burdens.⁷
- In previous analyses, BKZ has shown greater improvements in clinical outcomes vs SEC,⁵ which translated into greater improvements in HRQoL over 1 year.⁸ It is important to understand whether improvements in skin clearance and disease control are perceived by patients, and whether they translate into improved HRQoL, in the longer term.
- The Psoriasis Symptoms and Impacts Measure (P-SIM) is a novel, reliable and well-defined patient-reported outcome (PRO) tool which captures key symptoms of psoriasis (including itching, skin pain and scaling; scored from 0 [no symptom] to 10 [very severe symptom] on a numeric rating scale).⁹
- The Dermatology Life Quality Index (DLQI) is an established PRO measure of skin disease impact on HRQoL.¹⁰

Methods

- These analyses include 96-week (2-year) data from the BE RADIANT phase 3b trial, comprising a 48-week (1-year) double-blinded period followed by 48 weeks of its ongoing open-label extension (OLE; Figure 1).⁵
- Upon OLE entry, BKZ-randomised patients continued to receive BKZ (BKZ/BKZ) and SEC-randomised patients underwent a mandatory switch to BKZ (SEC/BKZ). OLE BKZ dosing (320 mg Q4W or Q8W) was assigned based on Week 48 PASI response and maintenance period treatment/dose.
- Percentages of patients with simultaneous achievement of PASI=0/PASI < 2 (complete skin clearance/disease control)¹¹ and P-SIM=0 (itching, skin pain or scaling items)⁹ or DLQI 0/1 (no effect of skin disease on a patient's life)¹⁰ at Week 96 are reported as observed case (OC).

BE RADIANT study design Figure 1



Baseline Week 16 Week 48 Week 64^ı Week 96

SEC was dosed weekly to Week 4, then Q4W thereafter; ^bFollowing a protocol amendment, patients receiving BKZ 320 mg Q4W were switched to BKZ Q8W at Week 64 or the next scheduled clinic visit. In the BKZ/BKZ group, BKZ Q4W and Q8W maintenance and open-label treatment arms are pooled and in the SEC/BKZ group, BKZ Q4W and Q8W open-label treatment arms are pooled.

Baseline characteristics Table 1

BKZ/BKZ ^a (N=336)	SEC/BKZ ^b (N=318)	BKZ Q4W/Q8W/Q8W ^c (N=177)
45.5 <u>+</u> 14.3	44.5 <u>+</u> 14.5	44.9 <u>+</u> 14.2
227 (67.6)	209 (65.7)	125 (70.6)
312 (92.9)	301 (94.7)	169 (95.5)
90.2 <u>+</u> 21.0	89.1 <u>+</u> 19.5	89.9 <u>+</u> 20.7
18.4 ± 13.1	17.5 <u>+</u> 12.1	18.5 <u>+</u> 12.8
20.3 <u>+</u> 7.7	19.5 <u>+</u> 6.1	20.4 ± 8.0
25.3 <u>+</u> 16.0	23.0 <u>+</u> 13.3	24.6 <u>+</u> 14.8
214 (63.7)	234 (73.6)	115 (65.0)
120 (35.7)	84 (26.4)	60 (33.9)
10.9 <u>+</u> 6.7	11.2 <u>+</u> 7.3	10.5 <u>+</u> 6.7
6.6 <u>+</u> 2.8	6.6 <u>+</u> 2.7	6.2 <u>+</u> 2.9
4.5 <u>+</u> 3.3	4.6 <u>+</u> 3.1	4.2 <u>+</u> 3.3
6.7 <u>+</u> 2.5	6.7 <u>+</u> 2.4	6.4 <u>+</u> 2.7
241 (71.7)	237 (74.5)	131 (74.0)
114 (33.9)	105 (33.0)	56 (31.6)
	$(N=336)$ 45.5 ± 14.3 $227 (67.6)$ $312 (92.9)$ 90.2 ± 21.0 18.4 ± 13.1 20.3 ± 7.7 25.3 ± 16.0 $214 (63.7)$ $120 (35.7)$ 10.9 ± 6.7 6.6 ± 2.8 4.5 ± 3.3 6.7 ± 2.5 $241 (71.7)$	(N=336)(N=318) 45.5 ± 14.3 44.5 ± 14.5 $227 (67.6)$ $209 (65.7)$ $312 (92.9)$ $301 (94.7)$ 90.2 ± 21.0 89.1 ± 19.5 18.4 ± 13.1 17.5 ± 12.1 20.3 ± 7.7 19.5 ± 6.1 25.3 ± 16.0 23.0 ± 13.3 $214 (63.7)$ $234 (73.6)$ $120 (35.7)$ $84 (26.4)$ 10.9 ± 6.7 11.2 ± 7.3 6.6 ± 2.8 6.6 ± 2.7 4.5 ± 3.3 4.6 ± 3.1 6.7 ± 2.5 6.7 ± 2.4 $241 (71.7)$ $237 (74.5)$

^aBKZ/BKZ patients were randomised to receive BKZ and continued on BKZ in the OLE; ^bSEC/BKZ patients were randomised to SEC and switched to BKZ on OLE entry; °BKZ Q4W/Q8W/Q8W patients were randomised to BKZ Q4W for the initial treatment period, received BKZ Q8W during the maintenance period and BKZ Q8W from OLE entry.

Table 2 Simultaneous achievement of PASI thresholds and P-SIM=0 (itching, skin pain and scaling) or DLQI 0/1 at Weeks 48 and 96 (OC)

	-	Patients achieving PASI thresholds, % (n/N)		Patients achieving PASI threshold and itching=0 (P-SIM), % (n/N)		Patients achieving PASI threshold and skin pain=0 (P-SIM), % (n/N)		Patients achieving PASI threshold and scaling=0 (P-SIM), % (n/N)		Patients achieving PASI threshold and DLQI 0/1, % (n/N)	
	-	PASI=0	PASI ≤2	PASI=0	PASI ≤2	PASI=0	PASI ≤2	PASI=0	PASI ≤2	PASI=0	PASI ≤2
Week 48	BKZ/BKZ (N=336)	75.4 (248/329)	94.2 (310/329)	57.5 (188/327)	66.7 (218/327)	70.9 (232/327)	85.0 (278/327)	68.2 (223/327)	78.0 (255/327)	69.7 (228/327)	84.4 (276/327)
	SEC/BKZ (N=318)	53.2 (167/314)	84.1 (264/314)	39.9 (125/313)	53.7 (168/313)	49.8 (156/313)	73.2 (229/313)	45.0 (141/313)	55.9 (175/313)	49.2 (154/313)	74.4 (233/313)
	BKZ Q4W/Q8W/Q8W (N=177)	75.6 (130/172)	98.8 (170/172)	58.5 (100/171)	71.3 (122/171)	72.5 (124/171)	91.8 (157/171)	67.8 (116/171)	81.9 (140/171)	68.4 (117/171)	88.3 (151/171)
-	BKZ/BKZ (N=336)	74.5 (228/306)	95.8 (293/306)	55.9 (171/306)	65.4 (200/306)	67.6 (207/306)	84.0 (257/306)	66.3 (203/306)	77.5 (237/306)	71.1 (217/305)	87.5 (267/305)
	SEC/BKZ (N=318)	81.8 (234/286)	96.2 (275/286)	61.9 (177/286)	66.4 (190/286)	75.2 (215/286)	83.6 (239/286)	72.7 (208/286)	77.6 (222/286)	74.8 (214/286)	84.6 (242/286)
	BKZ Q4W/Q8W/Q8W (N=177)	75.3 (122/162)	96.9 (157/162)	57.4 (93/162)	68.5 (111/162)	69.8 (113/162)	87.0 (141/162)	67.3 (109/162)	80.2 (130/162)	72.8 (118/162)	89.5 (145/162)

 Results are reported for BKZ/BKZ and SEC/BKZ patients, in addition to the subset of BKZ/BKZ patients who received BKZ Q4W/Q8W/Q8W (initial/maintenance/OLE) dosing.

Results

- At Week 48, 654 patients (336 BKZ, 318 SEC) entered the OLE.
- Baseline characteristics were similar between those initially randomised to BKZ and SEC and the subset of patients who received BKZ Q4W/Q8W/Q8W dosing (Table 1).
- At Week 48, BKZ-randomised patients had greater rates of simultaneous achievement of PASI=0/PASI <2 and P-SIM=0 or DLQI 0/1 versus SEC-randomised patients (Figures 2A–D, Table 2).
- At Week 96, the proportions of patients receiving BKZ/BKZ, SEC/BKZ and BKZ Q4W/Q8W/Q8W who achieved PASI=0 and PASI <2 were high and comparable (Table 2)
- High simultaneous achievement rates of $PASI = 0/PASI \le 2$ and P-SIM=0 or DLQI 0/1 were maintained through to Week 96 for continuous BKZ-treated patients; SEC-randomised patients experienced increases in rates after switching to BKZ (Figures 2A–D, Table 2).

Conclusions

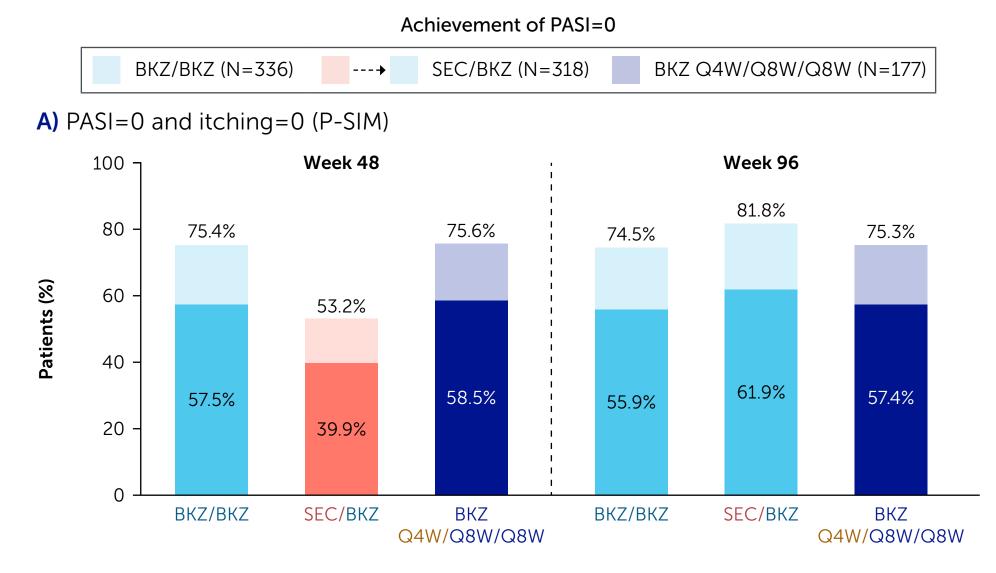
BKZ patients experienced higher rates of clinical responses, which translated into greater patient-perceived symptom and HRQoL benefits, versus SEC at 1 year.

Vithin the columns, N represents the number of patients with an assessment of the relevant outcome at that timepoint. For simultaneous achievement of two outcomes, N represents the number of patients with both a PASI and DLQI, or PASI and P-SIM, assessment at tha time point, n represents the number of patients who achieved the relevant outcome at that timepoint. For simultaneous achievement, n represents the number of patients with simultaneous achievement of PASI=0/PASI <2 and P-SIM=0 (itching, skin pain or scaling items) or DLQI 0/1.

(%)

nts

Achievement of PASI=0 in combination with P-SIM=0 and DLQI 0/1 at Weeks 48 and 96 (OC) Figure 2



C) PASI=0 and scaling=0 (P-SIM)

1(

¹⁰⁰ 7	Week 48	Week 96	
		81.8%	

SEC/BKZ (N=318) BKZ Q4W/Q8W/Q8W (N=177) BKZ/BKZ (N=336)----B) PASI=0 and skin pain=0 (P-SIM) Week 48 Week 96 81.8% 80 75.6% 75.4% 75.3% 74.5%

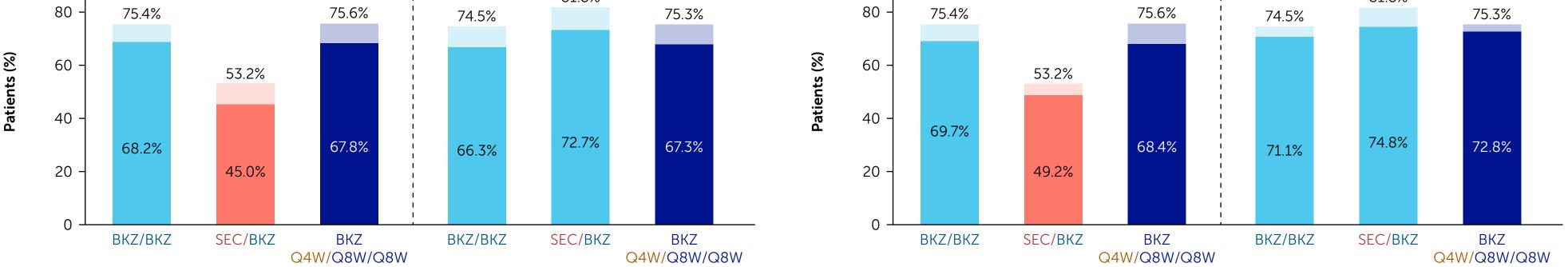
Simultaneous achievement of PASI=0 and DLQI 0/1 or PASI=0 and P-SIM=0



D) PASI=0 and DLQI 0/1

100 -	Week 48	Week 96
		81.8%

High rates of response were sustained through 2 years in patients treated continuously with BKZ. SEC-randomised patients achieved increased rates of simultaneous achievement of PASI=0/PASI <2 and P-SIM=0 or DLQI 0/1 after switching to BKZ. Responses were similarly high in those who received BKZ Q4W/Q8W/Q8W dosing, the approved regimen for the vast majority of patients.



Data are reported as observed case (numbers of patients contributing to percentage calculations are displayed in Table 2). Lighter shaded bars indicate achievement of PASI=0 and darker shaded bars indicate simultaneous achievement of PASI=0 and P-SIM=0 (itching, skin pain and scaling) or DLQI 0/1.

BKZ: bimekizumab; BSA: body surface area; DLQI: Dermatology Life Quality Index; HRQoL: health-related quality of life; IGA: Investigator's Global Assessment; OC: observed case; OLE: open-label extension; PASI: Psoriasis Area and Severity Index; HRQoL: health-related quality of life; IGA: Investigator's Global Assessment; OC: observed case; OLE: open-label extension; PASI: Psoriasis Area and Severity Index; PASI 90: >90% improvement from baseline in PASI; PRO: patient-reported outcome; P-SIM: Psoriasis Symptoms and Impacts Measure; Q4W: every 4 weeks; Q8W: every 8 weeks; SEC: secukinumab; SD: standard deviation.

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