Bimekizumab safety and tolerability in moderate to severe plaque psoriasis: Pooled analysis from up to 4 years of treatment in 5 phase 3/3b clinical trials

Synopsis

- Bimekizumab (BKZ) is a monoclonal immunoglobulin G1 antibody that selectively inhibits interleukin (IL)-17F in addition to IL-17A.¹
- Psoriasis is a chronic condition requiring long-term management; thus, evaluating long-term safety of treatments is essential to informing decision-making for clinicians, while managing risk for patients.²
- We report the first 4-year safety data for BKZ in patients with moderate to severe psoriasis.

Objectives

To evaluate BKZ safety data up to 4 years in patients with moderate to severe plague psoriasis, using the largest pool of phase 3/3b safety data at the time of this study.

To assess whether rates of treatment-emergent adverse events (TEAEs) changed with each year of **BKZ treatment.**

Methods

- Data were pooled from the BE SURE, BE VIVID, and BE READY phase 3 trials, their open-label extension (OLE) BE BRIGHT, the BE RADIANT phase 3b trial, and the BE RADIANT OLE.^{3–7} The BE RADIANT trial ran for 3 years; therefore, the overall total pooled exposure only included BE RADIANT data to Year 3, in addition to BE BRIGHT data to Year 4. Data were pooled for all patients who received >1 BKZ dose in the included studies (Figure 1).
- Included patients received BKZ 320 mg every 4 weeks (Q4W) or every 8 weeks (Q8W); all received Q8W from Week 64 (BE RADIANT)/OLE Week 48 (BE BRIGHT) or the next scheduled clinic visit. Patients who switched from adalimumab, ustekinumab, or secukinumab to BKZ in BE SURE, BE VIVID, and BE RADIANT, respectively, were also included following the switch to BKZ.
- TEAEs were reported over 4 years using exposure-adjusted incidence rates (EAIRs) per 100 patient-years (PY).
- TEAEs were evaluated separately for Years 1, 2, 3, and 4 (Weeks 0–52, 52–104, 104–156, and 156–208) of BKZ treatment.

Results

- Total BKZ exposure was 6,324.3 PY (N=2,186; Year 1, Year 2, Year 3, Year 4: 2,053.3 PY [n=2,186], 1.904.3 PY [n=2,013], 1,521.1 PY [n=1,803], 819.5 PY [n=1,309]; Table 1).
- TEAEs occurred at an EAIR of 170.5/100 PY (Year 1, Year 2, Year 3, Year 4: 230.9/100 PY, 137.7/100 PY, 107.1/100 PY, 99.9/100 PY), serious TEAEs at 5.5/100 PY (6.5/100 PY, 5.9/100 PY, 5.8/100 PY, 5.6/100 PY), and TEAEs leading to discontinuation at 2.9/100 PY (4.6/100 PY, 2.3/100 PY, 2.3/100 PY, 1.1/100 PY). Overall, the EAIR of TEAEs decreased with longer BKZ exposure over 4 years (Figure 2).
- The most common TEAEs were nasopharyngitis at 12.7/100 PY (Year 1, Year 2, Year 3, Year 4: 25.8/100 PY, 13.2/100 PY, 5.4/100 PY, 5.9/100 PY), oral candidiasis at 8.9/100 PY (18.9/100 PY, 10.7/100 PY, 6.8/100 PY, 5.4/100 PY), and upper respiratory tract infection at 5.7/100 PY (10.4/100 PY, 5.7/100 PY, 3.7/100 PY, 3.9/100 PY; Table 2).
- Fewer TEAEs over 4 years occurred with BKZ Q8W versus (vs.) Q4W (115.4/100 PY vs. 224.4/100 PY), including for oral candidiasis (6.5/100 PY vs. 16.7/100 PY).

Conclusions

Bimekizumab demonstrated good tolerability and a comparable safety profile over 4 years in patients with moderate to severe plaque psoriasis.

EAIRs of TEAEs remained consistent or decreased with longer bimekizumab exposure over 4 years, with no new safety signals observed.

Summary

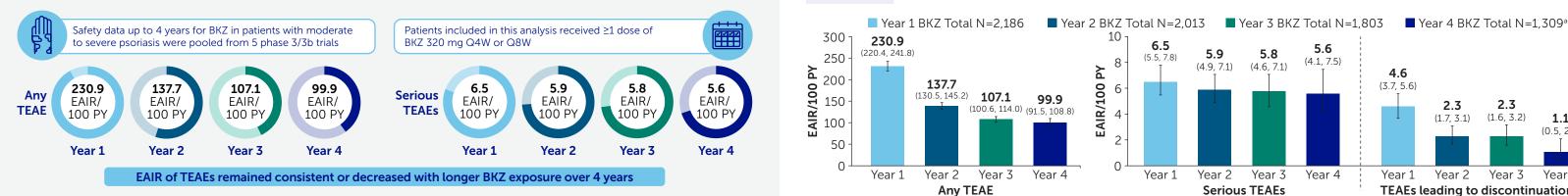
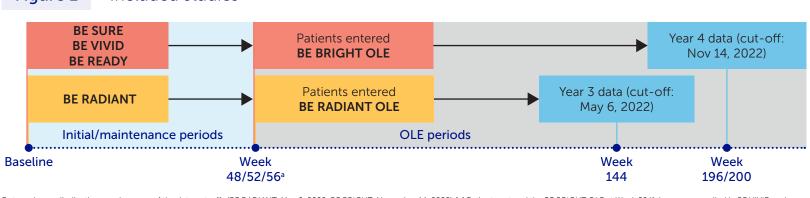


Figure 2

Figure 1 Included studies



Data and any adjudication are shown as of the data cut-offs (BE RADIANT: May 6, 2022: BE BRIGHT: November 14, 2022). [al Patients entered the BE BRIGHT OLE at Week 52 if they were enrolled in BE VIVID and rolled in BE SURE or BE READY; patients in BE RADIANT e ered the BE RADIANT OLE period at Week 4

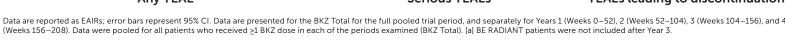
Summary of exposure and TEAEs Table 1

	BKZ Total							
	Year 1 N=2,186	Year 2 N=2,013	Year 3 N=1,803	Year 4 N=1,309	Overall N=2,186			
Weeks	0-52	52–104ª	104–156ª	156–208	All ^b			
Total exposure, PY	2,053.3	1,904.3	1,521.1	819.5	6,324.3°			
Mean exposure <u>+</u> SD, days	345.7 <u>+</u> 63.4	340.9 <u>+</u> 62.2	328.5 <u>+</u> 58.8	237.0 <u>+</u> 94.0	988.4 <u>+</u> 388.5			
Median exposure (range), days	364 (23–364)	364 (1–364)	364 (7–364)	281 (1–364)	1,013 (23–1,569)			
TEAE summary, EAIR/100 PY (95% C	CI)				·			
Any TEAE	230.9 (220.4, 241.8)	137.7 (130.5, 145.2)	107.1 (100.6, 114.0)	99.9 (91.5, 108.8)	170.5 ^d (163.2, 178.1)			
Serious TEAEs	6.5 (5.5, 7.8)	5.9 (4.9, 7.1)	5.8 (4.6, 7.1)	5.6 (4.1, 7.5)	5.5 ^e (4.9, 6.2)			
TEAEs leading to discontinuation	4.6 (3.7, 5.6)	2.3 (1.7, 3.1)	2.3 (1.6, 3.2)	1.1 (0.5, 2.1)	2.9 (2.5, 3.3)			
Severe TEAEs	6.0 (5.0, 7.2)	5.0 (4.1, 6.2)	4.8 (3.7, 6.0)	5.1 (3.7, 6.9)	4.8 (4.3, 5.4)			
TEAEs leading to death	0.3 (0.1, 0.6)	0.3 (0.1, 0.7)	0.5 (0.2, 0.9)	0.2 (0.0, 0.9)	0.3 (0.2, 0.5)			

Data were pooled for all patients who received >1 BKZ dose in each of the periods examined (BKZ Total). [a] All patients were switched to BKZ 320 mg Q8W at the next scheduled clinic visit on or after the Week 64/Week 104 visit (BE RADIANT/BE BRIGHT) following protocol amendment; [b] Entire pooled study period; [c] Total BKZ exposure over 4 years is greater than the sum of BKZ exposure in individual years, as data beyond Week 208 were included due to the use of a cut-off date; [d] The EAIR of TEAEs over 4 years was numerically lower in patients receiving BKZ Q8W vs. Q4W (115.4/100 PY vs. 224.4/100 PY); [e] The rate of serious TEAEs over 4 years is lower than the rate in any individual year due to time not accounted for in the individual year summaries.

References: ¹Adams R et al. Front Immunol 2020;11:1894; ²Al-Janabi A & Yiu ZZN. Psoriasis (Auckl) 2022;12:1-14; ³Warren RB et al. N Engl J Med 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. JAMA Dermatol 2022;158(7):735-744, NCT03598790; ⁷Reich K et al. Lancet 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. JAMA Dermatol 2022;12:1-14; ³Warren RB et al. N Engl J Med 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. JAMA Dermatol 2022;12:1-14; ³Warren RB et al. N Engl J Med 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. JAMA Dermatol 2022;12:1-14; ³Warren RB et al. N Engl J Med 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. JAMA Dermatol 2022;12:1-14; ³Warren RB et al. N Engl J Med 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. JAMA Dermatol 2022;158(7):735-744, NCT03598790; ⁷Reich K et al. JAMA Dermatol 2022;158(7):735-744, NCT03598790; ⁷Reich K et al. Lancet 2021;397(10273):475-486, NCT03410992; ⁶Gordon KB et al. 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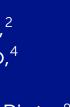


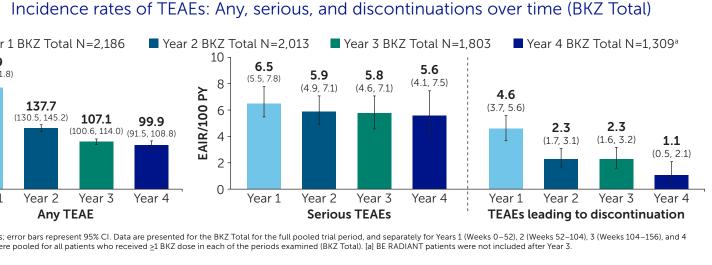
Most common TEAEs and TEAEs of interest (BKZ Total) Table 2

Year 1 N=2,186	Year 2 N=2,013	Year 3 N=1,803ª	Year 4 N=1,309ª	Overall N=2,186	
				·	
25.8 (23.5, 28.3)	13.2 (11.6, 15.0)	5.4 (4.3, 6.7)	5.9 (4.4, 7.9)	12.7 (11.7, 13.8)	
18.9 (16.9, 21.0)	10.7 (9.2, 12.3)	6.8 (5.6, 8.3)	5.4 (3.9, 7.3)	8.9 (8.1, 9.7) ^b	
10.4 (9.0, 12.0)	5.7 (4.7, 6.9)	3.7 (2.8, 4.9)	3.9 (2.6, 5.5)	5.7 (5.1, 6.4)	
1.7 (1.2, 2.3)	0.8 (0.5, 1.4)	1.4 (0.9, 2.1)	1.1 (0.5, 2.1)	1.3 (1.0, 1.6)	
0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	
30.6 (28.0, 33.3)	18.8 (16.8, 21.0)	11.9 (10.2, 13.8)	8.6 (6.6, 10.9)	15.7 (14.6, 16.9)	
22.2 (20.1, 24.4)	12.8 (11.2, 14.6)	7.8 (6.5, 9.4)	5.7 (4.1, 7.6)	10.4 (9.5, 11.3)	
18.9 (16.9, 21.0)	10.7 (9.2, 12.3)	6.8 (5.6, 8.3)	5.4 (3.9, 7.3)	8.9 (8.1, 9.7) ^b	
0.3 (0.1, 0.7)	0.2 (0.0, 0.5)	0.1 (0.0, 0.4)	0.1 (0.0, 0.7)	0.2 (0.1, 0.3)	
0.5 (0.3, 1.0)	0.3 (0.1, 0.7)	0.6 (0.3, 1.1)	1.1 (0.5, 2.1)	0.6 (0.4, 0.8)	
0.9 (0.6, 1.5)	1.1 (0.7, 1.7)	0.9 (0.5, 1.5)	1.0 (0.4, 1.9)	0.9 (0.6, 1.1)	
0.4 (0.2, 0.8)	0.6 (0.3, 1.1)	0.7 (0.4, 1.3)	0.9 (0.3, 1.8)	0.6 (0.4, 0.8)	
0.1 (0.0, 0.4)	0.2 (0.0, 0.5)	0.1 (0.0, 0.5)	0.0 (0.0, 0.0)	0.1 (0.1, 0.2)	
0.8 (0.5, 1.3)	0.5 (0.3, 1.0)	0.1 (0.0, 0.5)	0.2 (0.0, 0.9)	0.5 (0.3, 0.7)	
2.6 (1.9, 3.4)	2.4 (1.7, 3.2)	1.9 (1.3, 2.8)	1.8 (1.0, 3.0)	1.9 (1.6, 2.3)	
0.8 (0.5, 1.3)	0.3 (0.1, 0.7)	0.5 (0.2, 1.0)	0.6 (0.2, 1.4)	0.5 (0.4, 0.7)	
0.1 (0.0, 0.4)	0.1 (0.0, 0.4)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.0, 0.2)	
3.3 (2.5, 4.2)	1.1 (0.6, 1.6)	1.2 (0.7, 1.9)	0.4 (0.1, 1.1)	1.7 (1.4, 2.0)	
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Data were pooled from the BE SURE, BE VIVID, and BE READY feeder trials, their OLE BE BRIGHT, BE RADIANT, and the BE RADIANT OLE. Data are presented for BKZ Total for the full pooled trial period, and separately for Years 1 (Weeks 0–52), 2 (Weeks 52–104), 3 (Weeks 104–156), and 4 (Weeks 156–208). Data were pooled for all patients who received >1 BKZ dose in each of the periods examined (BKZ Total) [a] Confounding factors linked to the COVID-19 pandemic, including social isolation, mask-wearing, and lockdowns, may have impacted Year 3 and Year 4 data, particularly respiratory infection TEAEs such as asopharyngitis; [b] The EAIR for oral candidiasis over 4 years was numerically lower in patients receiving BKZ Q8W vs. Q4W (6.5/100 PY vs. 16.7/100 PY); [c] This includes any TEAE adjudicated as definite or probable inflammatory bowel disease: [d] Patients with elevations >5x ULN were a subset of patients with elevations >3x ULN: [e] No anaphylactic reactions associated with BKZ were reported

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