Bimekizumab efficacy through 3 years in patients with moderate to severe plaque psoriasis: Long-term pooled analysis from BE BRIGHT

Synopsis

- A key determinant of biologic discontinuation in plaque psoriasis is loss of response over time; considering long-term treatment efficacy is therefore important.¹
- Bimekizumab (BKZ), a monoclonal IgG1 antibody that selectively inhibits interleukin (IL)-17F in addition to IL-17A,² 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 secukinumab, with established long-term durability of response.³⁻⁷

Objective

To report efficacy of BKZ from baseline through 3 years of treatment in patients with moderate to severe plaque psoriasis, pooled across three phase 3 clinical trials and their open-label extension (OLE).

Methods

- Data were pooled from the following trials: BE SURE, BE VIVID, BE READY, and their common OLE, BE BRIGHT (Figure 1).^{3-5,7}
- Proportions of patients achieving PASI 75 (>75% improvement in Psoriasis Area and Severity Index from baseline), PASI 90, PASI <2, PASI 100, body surface area (BSA) < 1%, and Dermatology Life Quality Index (DLQI) 0/1 (no effect of skin disease on a patient's life)⁸ are reported over 3 years.
- Data are reported for all patients who were treated continuously with BKZ through the initial and maintenance periods, and then entered the OLE (BKZ Total). Data are also presented for the subgroup that received BKZ Q4W/Q8W/Q8W (initial/maintenance/OLE)
- Data are reported using modified non-responder imputation (mNRI): patients who discontinued treatment 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 non-responder imputation (NRI) and as observed case (OC) for all outcomes.

Results

- 771 patients continuously treated with BKZ through to the end of the first year entered the OLE. 197 patients received BKZ Q4W/Q8W/Q8W
- Baseline characteristics for included patients are presented in Table 1.
- At Week 16, patients in the BKZ Total group achieved high levels of PASI 75, PASI 90, and PASI <2 response (Figure 2A-C; Table 2).
- These responses remained high through to Year 3 (Week 148) (Figure 2A–C; Table 2).
- PASI 100, BSA <1%, and DLQI 0/1 responses increased through the first year (Figure 2D–F; Table 2).
- High levels of PASI 100, BSA \leq 1%, and DLQI 0/1 response achieved at Year 1 vere sustained through to Year 3 (Figure 2D-F; Table 2).
- Similar trends were observed in patients that received BKZ Q4W/Q8W/Q8W (Figure 2A–F; Table 2).

Conclusions

High and durable clinical and health-related quality of life responses were observed over 3 years of BKZ treatment across three phase 3 trials and their OLE.





via protocol amendment; OLE Week 48 (the end of Year 2) corresponds to BE VIVID/BE BRIGHT Week 104, and BE READY/BE BRIGHT and BE SURE/BE BRIGHT Week 104, OLE Week 48 or the next scheduled visit of Lewek 104, and BE READY/BE BRIGHT and BE SURE/BE BRIGHT Week 104, OLE Week 90 (the end of Year 3) corresponds to BE VIVID/BE BRIGHT Week 148, and BE READY/BE BRIGHT and BE SURE/BE BRIGHT Week 152.

BKZ: bimekizumab; BSA: body surface area; DLQI: Dermatology Life Quality Index; ICA: Investigator's Global Assessment; IL: interleukin; mNRI: modified non-responder imputation; OC: observed case; OLE: open-label extension; PASI: PSoriasis Area and Severity Index; PASI 75/90/100% improvement from baseline in PASI; O4W: every 8 weeks; SD: standard deviation

References: ¹Warren RB et al. J. Invest Dermatol 2015;135:2632-40; ²Adams R et al. Font Immunol 2020;11:1894; ³Warren RB et al. N Engl J Med 2021;385:142-52, NCT035410992; ⁶Reich K et al. Lancet 2021;397:475-86, NCT035410992; ⁶Reich K et al. N Engl J Med 2021;385:130-41, NCT03410747; ⁴Reich K et al. N Engl J Med 2021;385:130-41, NCT03412747; ⁴Reich K et al. Lancet 2021;397:475-86, NCT03541092; ⁶Reich K et al. N Engl J Med 2021;385:130-41, NCT03412747; ⁴Reich K et al. Lancet 2021;397:475-86, NCT03541092; ⁶Reich K et al. N Engl J Med 2021;385:130-41, NCT03410747; ⁴Reich K et al. N Engl J Med 2021;385:130-41, NCT0341 Author Contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: **ML, BS, PF, RGL, YT, PH, LD, SW, BH, JL, GK**. Author Disclosures: **ML**: Employee of Mount Sinai and receives research funds from AbbVie, Amgen, Arcutis, Avotreestinger Ingelheim, Cara therapeutics, Dermavant Sciences, Eli Lilly, Incyte, Incyte, Janssen Research & Development, LLC, Ortho Dermatologics, Sanofi-Regeneron, and UCB Pharma, innertedogy, Sanofi-Regeneron, and UCB Pharma, innertedogy, Sanofi-Regeneron, AstraZeneces, Eli Lilly, Incyte, Incorarial for Abbvie, Amgen, Arcutis, Monorarial for Abbvie, Amgen, Arcutis, Avotrest Therapeutics, Dermavant Sciences, Eli Lilly, Incyte, Incorarial for Abbvie, Amgen, Arcutis, Avotres Therapeutics, Dermavant Sciences, Eli Lilly, Consultant for Almiral, AltruBio Inc., AnaptysBio, Arcutis Inc., AstraZeneces, Avotres Therapeutics, Dermavant Sciences, Eli Lilly, Consultant for Altrial, AltruBio Inc., AnaptysBio, Arcutis Incorarial for Abbvie, AltruBio Inc., AstraZeneces, Eli Lilly, Sciences, Sciences, Eli Lilly, Sciences, Sciences, Eli Lilly, Sciences, Sciences, Sciences, Sciences, Sciences, Consultant for Albovie, AltruBio Inc., AnaptysBio, Arcutis Incorarial for Abbvie, AltruBio Inc., Araptis Sciences, Sciences, Sciences, Celltrion, CorEvitas, Incervica BS, Consultant for Albovie, AltruBio Inc., AraptysBio, Acrutis Incorarial for Abbvie, AltruBio Inc., Acid Sciences, Sciences, Sciences, Sciences, Acid Sciences, Sciences, Acid Sciences, Sciences, Acid Sciences, Sciences, Acid Sciences, Sc Journal of Psoriais and Neurolan Beneficience of Abbrie, Angene Beneficience of Abbrie, Angene, Beneficience of Abbrie, Ange Actelion, Almirall, Amgen, Basilea, Biogen, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly, Hexal-Sandoz, Janssen-Cilag, LEO Pharma. Wethank the patients and their teams who contributed to this study. The authors acknowledge Joe Dixon, PhD, UCB Pharma. Representation, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma. Wethank the patients and their teams who contributed to this study. The authors acknowledge Joe Dixon, PhD, UCB Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, UK for publication coordination, Jack Wardle, Janssen-Cilag, LEO Pharma, Slough, Ja MSc, Costello Medical, Cambridge, UK, for medical writing and editorial assistance and the Creative team at Costello Medical for graphic design assistance. All costs associated with development of this poster were funded by UCB Pharma

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Table 1 Baseline characteristics

	BKZ Total (N=771)	BKZ <mark>Q4W</mark> /Q8W/Q8W (N=197)	
Age (years), mean <u>+</u> SD	45.4 <u>+</u> 13.5	45.0 ± 14.1	
Male , n (%)	550 (71.3)	141 (71.6)	
White , n (%)	656 (85.1)	185 (93.9)	
Weight (kg), mean <u>+</u> SD	89.7 <u>+</u> 21.2	88.5 ± 20.8	
Duration of psoriasis (years), mean <u>+</u> SD	18.6 ± 12.7	18.9 ± 12.0	
PASI, mean <u>+</u> SD	21.1 ± 7.6	20.4 ± 6.9	
BSA (%) , mean <u>+</u> SD	27.0 ± 15.6	24.5 ± 12.2	
IGA, n (%)			
3: moderate	508 (65.9)	142 (72.1)	
4: severe	262 (34.0)	55 (27.9)	
DLQI total score, mean ± SD	10.5 ± 6.3	10.8 ± 6.0	
Any prior systemic therapy, n (%)	618 (80.2)	154 (78.2)	
Any prior biologic therapy, n (%)	309 (40.1)	73 (37.1)	
Anti-TNF	113 (14.7)	19 (9.6)	
Anti-IL-17	193 (25.0)	48 (24.4)	
Anti-IL-12/23	43 (5.6)	13 (6.6)	
Anti-IL-23	37 (4.8)	13 (6.6)	

Data are reported for all patients who were treated continuously with BKZ through the initial and maintenance periods, and entered the OL

Table 2 Summary of efficacy outcomes (NRI and OC)

	BKZ Total (N=771)		BKZ <mark>Q4W</mark> /G (N=1	
	NRI , n (%)⁵	OC, n/Nsub (%)⁰	NRI , n (%)⁵	
PASI 75				
Week 16	746 (96.8)	746/764 (97.6)	194 (98.5)	
Year 1	719 (93.3)	719/727 (98.9)	195 (99.0)	
Year 3	668 (86.6)	668/674 (99.1)	170 (86.3)	
PASI 90		· ·		
Week 16	696 (90.3)	696/764 (91.1)	185 (93.9)	
Year 1	699 (90.7)	699/727 (96.1)	192 (97.5)	ł
Year 3	638 (82.7)	638/674 (94.7)	168 (85.3)	i
PASI ≤2				
Week 16	702 (91.1)	702/764 (91.9)	188 (95.4)	i
Year 1	699 (90.7)	699/727 (96.1)	193 (98.0)	
Year 3	643 (83.4)	643/674 (95.4)	170 (86.3)	ł
PASI 100				
Week 16	505 (65.5)	505/764 (66.1)	146 (74.1)	
Year 1	583 (75.6)	583/727 (80.2)	167 (84.8)	
Year 3	518 (67.2)	518/674 (76.9)	143 (72.6)	
BSA ≤1%		· · ·		·
Week 16	601 (78.0)	601/763 (78.8)	171 (86.8)	i
Year 1	656 (85.1)	656/727 (90.2)	185 (93.9)	
Year 3	610 (79.1)	610/674 (90.5)	164 (83.2)	-
DLQI 0/1ª	•	· · ·		
Week 16	547 (70.9)	547/765 (71.5)	131 (66.5)	į
Year 1	621 (80.5)	621/725 (85.7)	168 (85.3)	
Year 3	581 (75.4)	581/673 (86.3)	157 (79.7)	i

Year 1 refers to Week 52 for all outcome measures except DLQI 0/1. Year 3 refers to OLE Week 96. "For DLQI 0/1 efficacy responses, Year 1 corresponds to the Week 48 assessment for BE SURE and BE READY, and Week 52 for BE VIVID, due to the lack of common visits at which DLQI 0/1 was assessed in these studies; "Patients with mis data at a given week are counted as non-responders; "Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders; "Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders; "Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders; "Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders; "Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsub represents the number of subjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsubjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsubjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsubjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsubjects with a non-missing measurement, and percentages are calculated accounted as non-responders;" Nsubjects with a non-missing measurement, and percentages are ca



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