Bimekizumab efficacy from treatment initiation through 4 years in patients with plaque psoriasis: A comprehensive, long-term, pooled analysis from BE BRIGHT

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Objective

To provide the first disclosure of efficacy responses from treatment initiation of bimekizumab (BKZ) through 4 years in moderate to severe

To provide a comprehensive view of efficacy in BKZ-treated patients over 4 years across clinical and health-related quality of life outcomes, using the largest available pool of 4-year global phase 3 clinical data at the time of this study.

Introduction

- Psoriasis is a chronic disease; assessing long-term treatment efficacy
- BKZ is a monoclonal immunoglobulin G1 (lgG1) antibody that selectively inhibits interleukin (IL)-17F in addition to IL-17A.^{2,3}
- BKZ has demonstrated rapid and superior efficacy in the treatment of psoriasis versus ustekinumab, adalimumab, and secukinumab, with established long-term durability of response.4-8

Methods

- Data were pooled across the 52-week BE VIVID, 56-week BE SURE and BE READY trials, and their open-label extension (OLE) BE BRIGHT. Analyzed patients were randomized to BKZ 320 mg every 4 weeks (Q4W) to Week 16, received BKZ Q4W or every 8 weeks (Q8W) thereafter, and entered the OLE (Figure 1).4-6,8
- Proportions achieving >90%/100% improvement from baseline in Psoriasis Area and Severity Index (PASI 90/PASI 100), body surface area (BSA) ≤1%, and Dermatology Life Quality Index (DLQI) 0/1 are reported from initial study baseline through Year 4 (OLE Week 144)
- Missing data were imputed using modified non-responder imputation (mNRI). Patients who discontinued due to lack of efficacy/treatmentrelated adverse events were considered non-responders at subsequent timepoints; multiple imputation was used for other missing data.

Results

Baseline characteristics and patient disposition

• Baseline characteristics and patient disposition are presented in Table 1 and Figure 2, respectively.

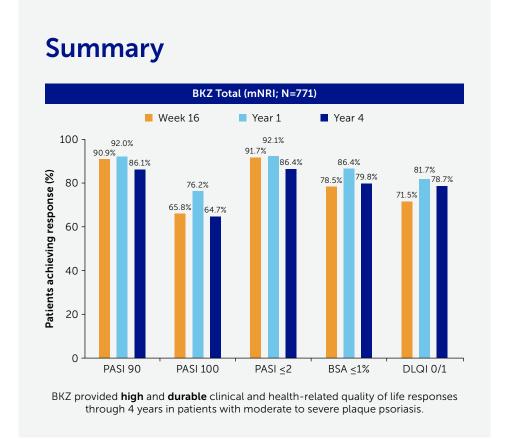
Treatment response

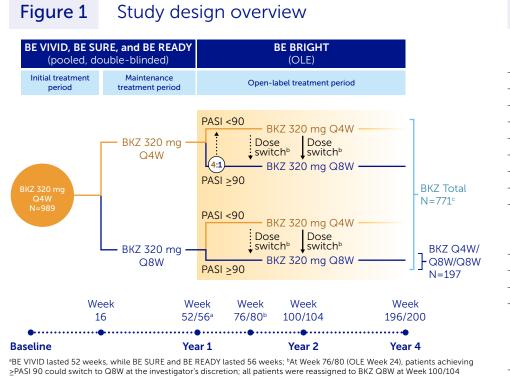
- BKZ treatment responses over 4 years are summarized in Figure 3.
- Among patients who received BKZ continuously from baseline and entered the OLE (N=771), 90.9%, 65.8%, 91.7%, 78.5%, and 71.5% of patients achieved PASI 90, PASI 100, PASI <2, BSA <1%, and DLQI 0/1, respectively, at Week 16. Responses were highly durable throughout 4 years of BKZ treatment, with 86.1%, 64.7%, 86.4%, 79.8%, and 78.7% of patients reporting PASI 90, PASI 100, PASI ≤2, BSA ≤1%, and DLQI 0/1, respectively, at Year 4.
- In the subset of patients who received BKZ Q4W/Q8W/Q8W (initial/maintenance/OLE; N=197), 88.0%, 72.6%, 89.2%, 83.2%, and 83.3% reported PASI 90, PASI 100, PASI <2, BSA <1%, and DLQI 0/1, respectively, at Year 4.

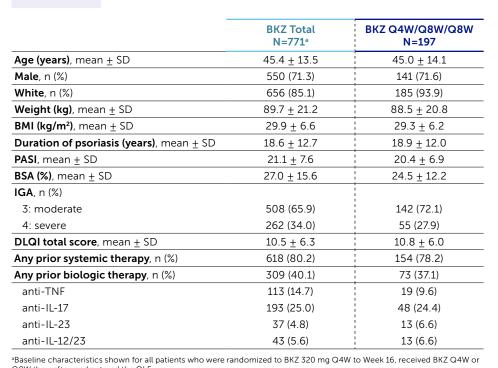
Conclusions

In patients who received bimekizumab and enrolled in the OLE, high rates of clinical and health-related quality of life responses were achieved rapidly and were highly durable in the long term through 4 years.

PASI 90, PASI 100, PASI ≤2, BSA ≤1%, and DLQI 0/1 response rates were consistent in the subset of patients enrolled in the OLE who received bimekizumab 320 mg Q4W to Week 16 then Q8W thereafter, the approved dosing regimen for the majority of patients with plague psoriasis. 9,10

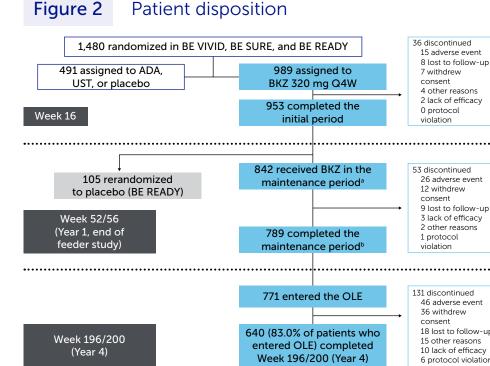






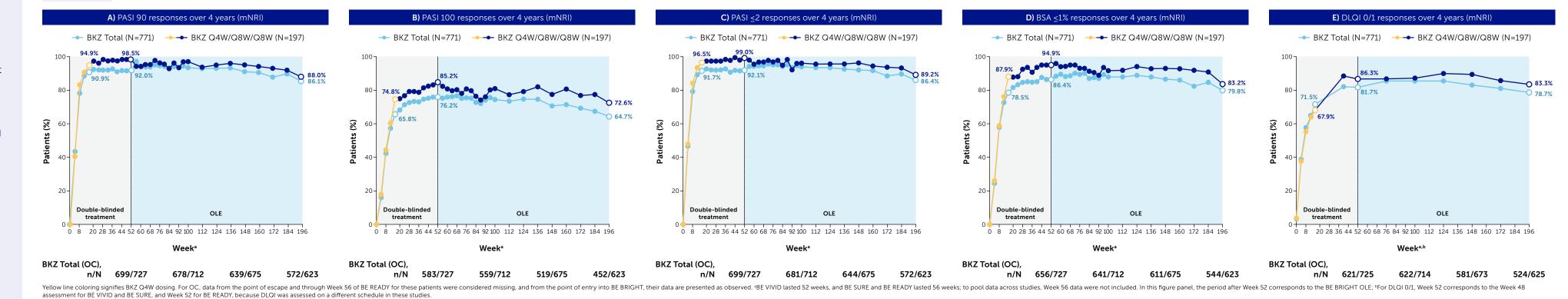
Baseline characteristics





Response to BKZ over 4 years measured by (A) PASI 90, (B) PASI 100, (C) PASI <2, (D) BSA <1%, and (E) DLQI 0/1 [mNRI; OC]

to Week 16, received BKZ Q4W or Q8W thereafter, and entered the OLE.



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2023;188(6):749-759, NCT03598790; Bimzelx® Summary of Product Characteristics. 2023. Available at: https://www.ema.europa.eu/en/medicines/human/EPAR/bimzelx [Accessed February 2024]. Author Contributions: Substantial contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpred data: BSt, ML, PF, RGL, AM, SP, JT, BSz, BH, JL, DT; Final approval of the publication, or reviewing it critically for important intellectual content: BSt, ML, PF, RGL, AM, SP, JT, BSz, BH, JL, DT; Final approval of the publication: BSt, ML, PF, RGL, AM, SP, JT, BSz, BH, JL, DT; Drafting of the publication in Constitution in Constit ompany, Imagenebio, Janssen, Kangpu Pharmaceuticals, LEO Pharma, Maruho, Meiji Seika Pharma, Monte Carlo, Novartis, Pfizer, Protagonist, Rapt, Regeneron, Sanofi Genzyme, SG Cowen, Sun Pharma, Union Therapeutics, Ventyxbio, and vTv Therapeutics, stock options from Connect Biopharma and Mindera Health; speaker for AbbVie, Arcutis, Dermavant, Eli Lilly and Company, Incyte, Janssen, Regeneron, and Sanofi Genzyme, SG Cowen, Sun Pharma, Takeda, UCB Pharma, Union Therapeutics, Ventyxbio, and vTv Therapeutics, Security, Editor-in-Chief (honorarium) for Journal of Psoriasis and Psoriatic Arthritis. ML: Employee of Mount Sinai and receives research funds from AbbVie, Amgen, Arcutis, Avotres, Boehringer Ingelheim, Cara Therapeutics, Dermavant Sciences, Eli Lilly and Company, Incyte, Inozyme, Janssen Research & Development, LLC, Ortho Dermatologics, Pfizer, Sanofi-Regeneron, and Sanofi Genzyme, Sanofi Genzyme and UCB Pharma; consultant for Almirall, AltruBio Inc., AnaptysBio, Apogee, Arcutis Inc., AstraZeneca, Atomwise, Avotres Therapeutics, Brickell Biotech, Boehringer Ingelheim, Bristol Myers Squibb, Castle Biosciences, Celltrion, CorEvitas, Dermavant Sciences, Foundation for Research and Education in Dermatology, Galderma, Genentech, Incyte, LEO Pharma, Meiji Seika Pharma, Mindera, Pfizer, Sanofi-Regeneron, Seanergy, Strata, Takeda, Trevi, and Verrica. PF: Grant support from AbbVie, Amgen, Bristol Myers Squibb, Celgene, Eli Lilly and Company, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Sanofi, Sun Pharma; served as an investigator for AbbVie, Akaal, Amgen, Arcutis, Argenx, Aslan, AstraZeneca, Boehringer Ingelheim, Botanix, Bristol Myers Squibb, Celgene, Eli Lilly and Company, Galderma, GenesisCare, GSK, Hexima, Incyte, Janssen, Kymab, LEO Pharma, Medlmmune, Merck, Novartis, Pfizer, Regeneron, Reistone, Roche, Sanofi, Sun Pharma, Merck, Novartis, Pfizer, Sanofi, Sun Pharma, Medlmmune, Merck, Novartis, Pfizer, Sanofi, Sun Pharma, Merck, Novartis, Pfizer, Sanofi, Sanofi, Sanofi, Aslan, Bristol Myers Squibb, Eli Lilly and Company, Galderma, Genesis Care, Alons Misser, Fire Pharma, Mediannia, Mediann writing support and editorial assistance, and Danielle Hart of the Creative team at Costello Medical, London, UK, for graphic design assistance. All costs associated with development of this poster were funded by UCB Pharma.



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