Bimekizumab continuous maintenance of response at every visit through two years in patients with moderate to severe plaque psoriasis: Post-hoc results from five phase 3/3b trials

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BKZ Total

(N=995)

Week 16 PASI 90 Resp

Objective

To assess the continual maintenance of \geq 90% improvement from baseline in Psoriasis Area and Severity Index (PASI 90) responses with bimekizumab (BKZ) at every single visit from Week 16 through two years of treatment in patients with moderate to severe plaque psoriasis.

Background

- In patients who have already achieved skin clearance, surveys have shown that long-lasting maintenance of response is a key treatment goal.^{1,2}
- Considering this goal, and the loss of clinical response often seen over time,³ it is important to evaluate long-term treatment efficacy.
- BKZ, a monoclonal IgG1 antibody that selectively inhibits IL-17F in addition to IL-17A,⁴ 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.⁵⁻⁹

Methods

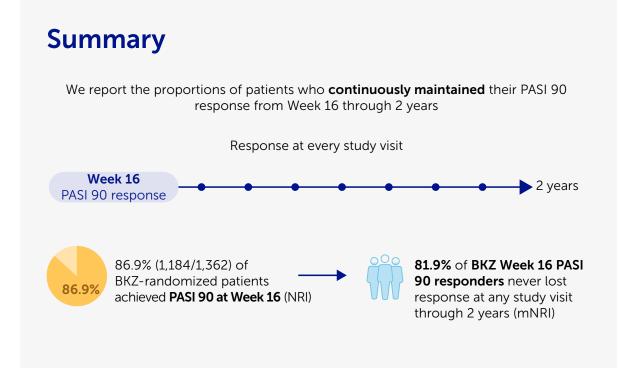
- Two-year data were pooled from the 52-week BE VIVID and 56-week BE READY and BE SURE phase 3 trials, 48 weeks of their ongoing open-label extension (OLE), BE BRIGHT, as well as the BE RADIANT phase 3b trial (48-week double-blinded period and 48 weeks of the ongoing OLE; **Figure 1**).⁵⁻⁹
- Included patients were randomized to receive BKZ 320 mg every 4 weeks (Q4W) to Week 16, then either BKZ Q4W or Q8W until OLE entry (Week 48/52/56; Year 1), at which point, patients received BKZ Q4W or Q8W based on PASI response and prior maintenance dose (Figure 1).
- Continuous maintenance of PASI 90 response at every single visit through OLE Week 48 (2 years) in Week 16 PASI 90 responders is reported.
- 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.
- Week 16 PASI 90 responder rate is reported for context (NRI).

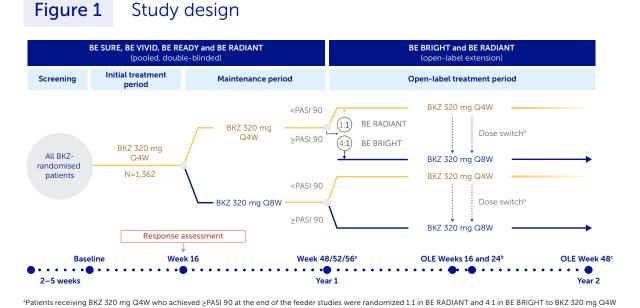
Results

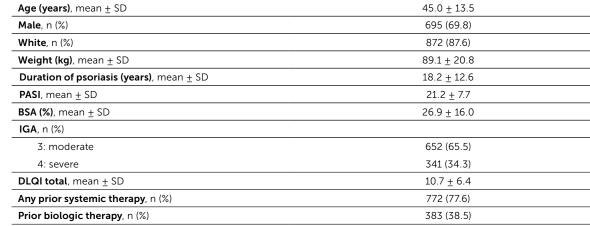
- At Week 16, 86.9% (1,184/1,362) BKZ-randomized patients achieved PASI 90 (NRI);
 995 entered the OLEs and are included in these analyses.
 - Baseline characteristics of these patients are shown in Table 1.
- Of the Week 16 PASI 90 responders who entered the OLE, 93.7% also achieved PASI 90 at 2 years; 90.6% continuously maintained PASI 90 at every single visit through 1 year (Week 48) and 81.9% at every single visit through 2 years (Figure 2: mNRI).
 - 6.8% only lost PASI 90 at 1 visit, 3.0% only lost PASI 90 at 2 visits, and 8.3% lost PASI 90 at >2 visits.
- The flow of PASI responses among Week 16 PASI 90 responders showing maintenance, loss, or regain of response between study visits is shown in Figure 3.

Conclusions

Over 2 years of BKZ treatment, a large proportion of Week 16 PASI 90 responders continuously maintained disease control. Of those who did lose PASI 90 response, the majority lost response at only one or two visits.





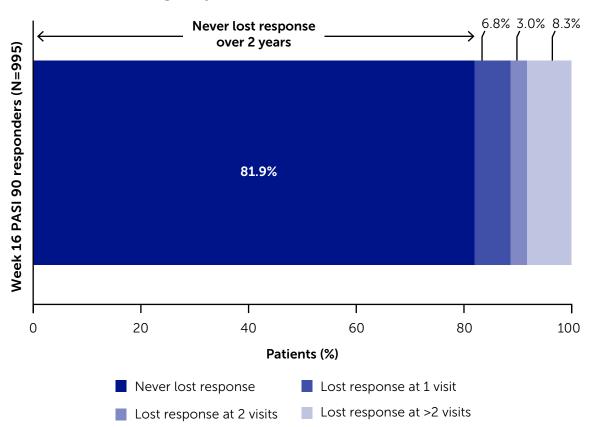


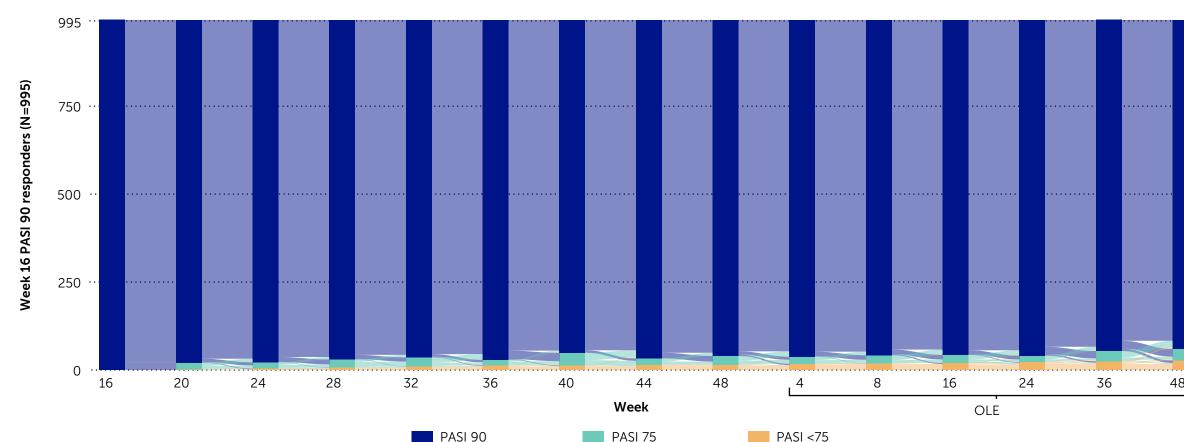
*Patients receiving BKZ 320 mg Q4W who achieved ≥PASI 90 at the end of the feeder studies were randomized 1:1 in BE RADIANT and 4:1 in BE BRIGHT to BKZ 320 mg Q4W or Q8W; patients receiving BKZ 320 mg Q8W who achieved ≥PASI 90 at the end of the feeder studies remained on Q8W dosing; 995 patients achieved ≥PASI 90 at the end of the feeder studies and entered the OLEs; *In BE RADIANT, at OLE Week 16 or the next scheduled clinic visit, 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; *OLE 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.

^aData were pooled for all patients who achieved a PASI 90 response at Week 16 and entered the relevant OLE (BKZ Total)

Baseline characteristics







Flow of PASI responses among Week 16 PASI 90 responders showing maintenance, loss or regain of response between

Out of 1,184 BKZ-randomized patients who achieved PASI 90 at Week 16, 995 entered the OLE and are included in these analyses. Of those that had an observed loss of PASI 90 (N=435), 81.0% only lost PASI 90 response at 1 or 2 visits over 2 years (mNRI).

Bar heights are proportional to the number of patients transitioning to a different PASI response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition aligns with previous response category between visits (color of transition

study visits (mNRI)

BKZ: bimekizumab; BSA: body surface area; DLQI: Dermatology Life Quality Index; IGA: Investigator's Global Assessment; mNRI: modified non-responder imputation; OC: observed case; OLE: open-label extension; PASI: Psoriasis Area and Severity Index; PASI 75/90/100: >75%/>90%/100% improvement from baseline in PASI; Q4W: every 4 weeks; Q8W: every 8 weeks; SD: standard deviation.

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References: 'Tada' Y et al. J Dermatol 2021;48:1665—743; 'Rasmussen MK et al. Acta Derm Venereol 2019;99:158—63; 'Warren RB et al. J Invest Dermatol 2021;385:130—41, NCT03512682, 'Strober B et al. Br. J Dermatol 2021;385:130—41, NCT03598790.

Author Contributions: Substantial contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication; or revising it critically for important intellectual content: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC, AC, PvdK, GH, RGL, LD, BH, SW, LP; Drafting of the publication: AB, CC