# Bimekizumab efficacy and safety through 5 years in patients with moderate to severe plaque psoriasis in the US and Canada

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Figure 2 Efficacy outcomes through 5 years (mNRI)

and Week 52 in BE VIVID, due to a lack of common timepoints at which DLQI was assessed

# Objective

To evaluate the long-term efficacy and safety of bimekizumab (BKZ) treatment through 5 years in patients with moderate to severe plaque psoriasis from the US and Canada.

# Background

- Given the chronic nature of psoriasis, and the loss of response observed with biologic therapies over time, it is crucial to establish the long-term efficacy and safety of biologic therapies for psoriasis.<sup>1</sup>
- Treatment with BKZ, a monoclonal IgG1 antibody that inhibits interleukin (IL)-17F in addition to IL-17A, has previously demonstrated maintenance of high response rates through 4 years in patients with moderate to severe plaque psoriasis.<sup>2,3</sup>

## Methods

- US/Canadian patients who completed the 52-week BE VIVID and 56-week BE SURE and BE READY phase 3 trials, and the 144-week BE BRIGHT open-label extension (OLE; 4 years' total treatment), could enter a second 48-week OLE (OLE2; **Figure 1**).<sup>4-7</sup>
- Patients entered the BE BRIGHT OLE2 with or without a treatment break, since some patients had completed the study before it was extended. Only patients who were randomized to BKZ at baseline and received BKZ continuously into OLE2, without a treatment break, were included in this analysis. All included patients received BKZ every 8 weeks (Q8W) on OLE2 entry (**Figure 1**).
- Efficacy data and treatment-emergent adverse events (TEAEs; incidence/100 patient-years [PY]) are reported over 5 years of BKZ treatment (to OLE2 Week 48; 244 or 248 weeks' total treatment).
- Data are reported in patients irrespective of dose (BKZ Total) and in patients who received BKZ 320 mg every 4 weeks (Q4W) to Week 16 then Q8W thereafter (BKZ Q4W/Q8W; the approved dosing regimen for most patients with psoriasis).8
- Patients discontinuing treatment due to lack of efficacy or treatment-related adverse events
  were considered non-responders; multiple imputation was used for other missing data (modified
  non-responder imputation [mNRI]).

## Results

#### Baseline characteristics

Of the 153 US/Canadian patients analyzed, 52 patients received BKZ Q4W/Q8W.
 Baseline characteristics are shown in Table 1.

#### Efficacy

- At Year 1 (Week 52) and Year 5 (Week 244), respectively, 92.8% and 84.9% of BKZ Total patients achieved 90% improvement in Psoriasis Area and Severity Index (PASI 90); among the BKZ Q4W/Q8W subset, 96.2% and 88.5% of patients achieved PASI 90 (Figure 2A).
- At Year 1 and Year 5, respectively, 75.2% and 67.7% of BKZ Total patients achieved 100% improvement in Psoriasis Area and Severity Index (PASI 100); among the BKZ Q4W/Q8W subset, 78.8% and 76.9% of patients achieved PASI 100 (**Figure 2B**).
- Investigator's Global Assessment (IGA) 0/1 achievement rates followed a similar trend to that of PASI 90; Dermatology Life Quality Index (DLQI) 0/1 achievement rates were similar at Year 1 and Year 5 for BKZ Total patients, but were numerically higher for BKZ Q4W/Q8W patients at Year 5 versus Year 1 (Figures 2C–D).

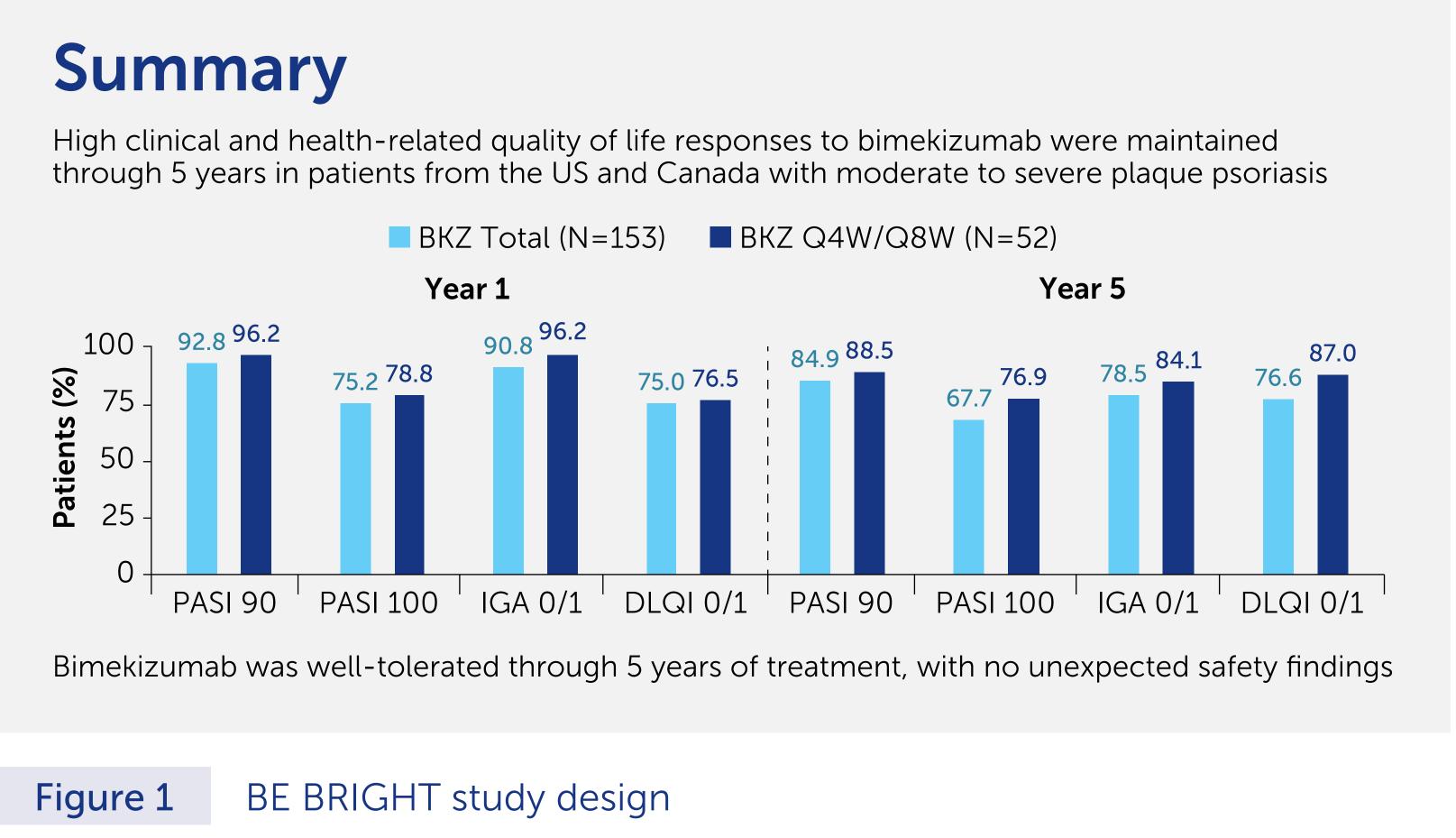
#### Safety

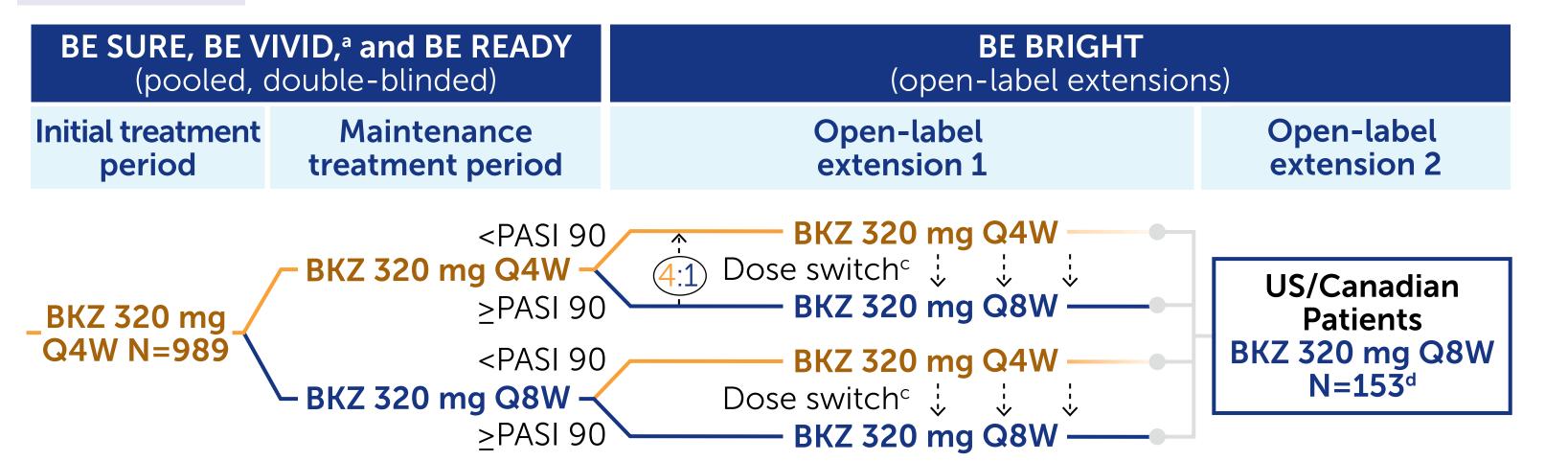
- Over 5 years, serious TEAEs (3.6/100 PY) and discontinuations due to TEAEs (0.3/100 PY) were low; no deaths occurred. The most common TEAEs were nasopharyngitis (9.7/100 PY), oral candidiasis (7.6/100 PY), and coronavirus infection (6.1/100 PY), in line with BKZ's known safety profile (**Table 2**).9
- The vast majority (99.3%) of oral candidiasis events were mild to moderate; none led to discontinuation.
- BKZ Q4W/Q8W safety data were generally similar to BKZ Total data, although the patient group was small, so results should be interpreted with caution (**Table 2**).

## Conclusions

Bimekizumab demonstrated high rates of clinical and health-related quality of life responses, which were highly durable to Year 5, in patients from the US and Canada with moderate to severe plaque psoriasis.

Bimekizumab was well-tolerated in this patient subgroup, with no unexpected safety findings.







[a] BE VIVID did not include an option for Q8W dosing of BKZ during the maintenance period; [b] BE VIVID lasted 52 weeks and BE SURE and BE READY lasted 56 weeks; [c] All patients were re-assigned to BKZ Q8W at Week 100/104 (OLE Week 48) or the next scheduled visit via protocol amendment; [d] 46 patients had a treatment break and are not included in this analysis.

### Table 1 Baseline characteristics

|  | BKZ Total<br>N=153 | BKZ Q4W/Q8W<br>N=52 |
|--|--------------------|---------------------|
|  |                    |                     |
| Age (years), mean (SD)                           | 45.7 (13.6)        | 46.8 (15.5)         |
| Sex, male, n (%)                                 | 102 (66.7)         | 35 (67.3)           |
| Racial group, white, n (%)                       | 124 (81.0)         | 44 (84.6)           |
| <b>Weight<sup>a</sup> (kg)</b> , mean (SD)       | 93.9 (22.6)        | 90.4 (21.3)         |
| BMI <sup>a</sup> (kg/m <sup>2</sup> ), mean (SD) | 31.7 (7.0)         | 30.4 (6.3)          |
| Duration of psoriasis (years), mean (SD)         | 19.0 (13.8)        | 18.9 (14.0)         |
| PASI, mean (SD)                                  | 19.7 (6.8)         | 18.4 (5.8)          |
| BSA (%), mean (SD)                               | 24.4 (14.6)        | 20.1 (10.7)         |
| <b>IGA</b> , n (%)                               |                    |                     |
| 3: moderate                                      | 104 (68.0)         | 38 (73.1)           |
| 4: severe  | 49 (32.0)          | 14 (26.9)           |
| <b>DLQI total</b> , mean (SD)                    | 10.5 (6.0)         | 11.1 (5.8)          |
| Any prior systemic therapy, n (%)                | 100 (65.4)         | 31 (59.6)           |
| Any prior biologic therapy, n (%)                | 47 (30.7)          | 11 (21.2)           |
| anti-TNF   | 24 (15.7)          | 7 (13.5)            |
| anti-IL-17                                       | 18 (11.8)          | 4 (7.7)             |
| anti-IL-23                                       | 4 (2.6)            | 0                   |
| anti-IL-12/23                                    | 8 (5.2)            | 1 (1.9)             |

[BKZ Total] and  $88.5 \pm 20.8$  kg [BKZ Q4W/Q8W]; mean BMI was  $29.9 \pm 6.6$  kg/m<sup>2</sup> [BKZ Total] and  $29.3 \pm 6.2$  kg/m<sup>2</sup> [BKZ Q4W/Q8W]).<sup>10</sup>

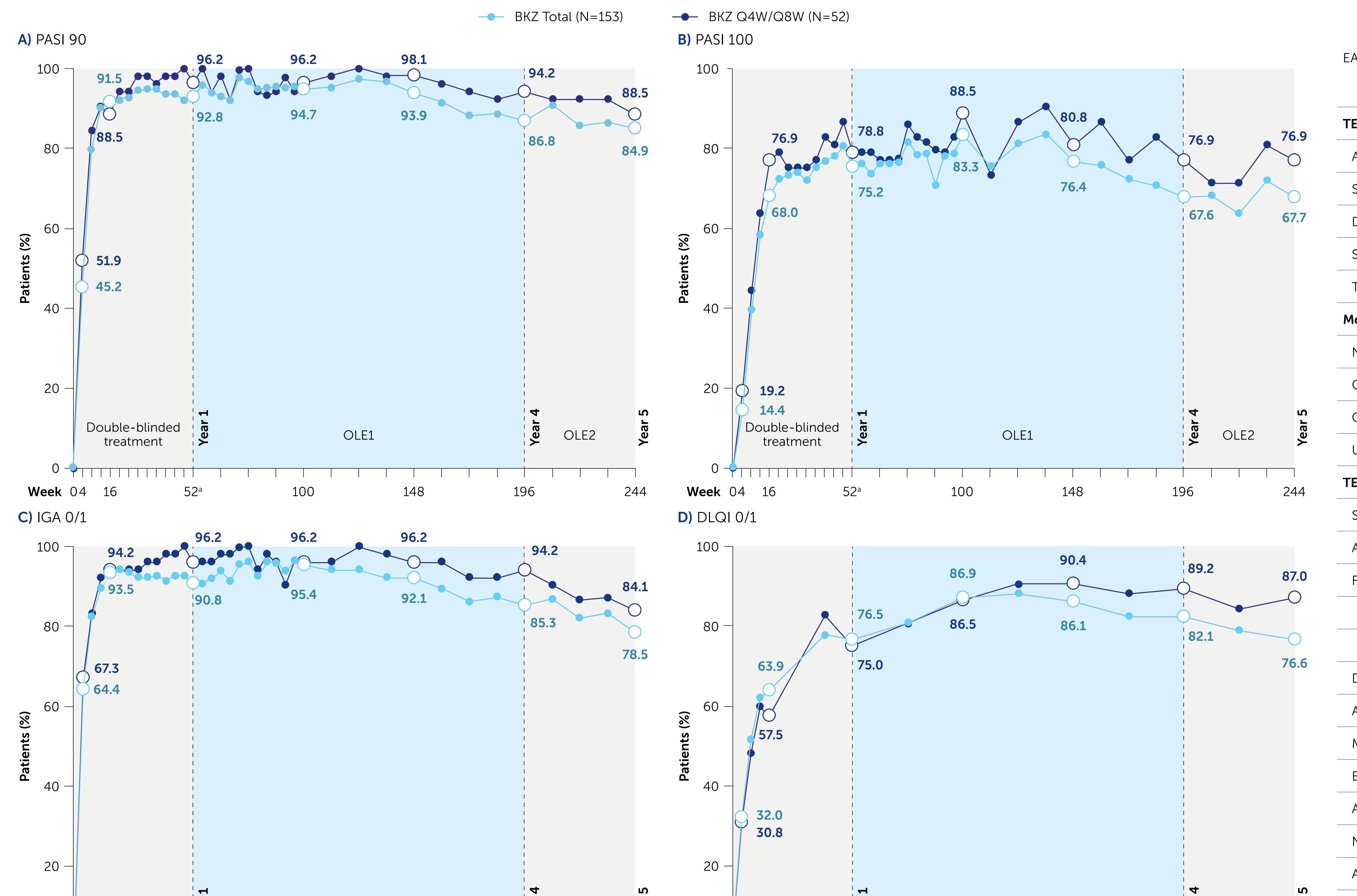


Table 2 Rates of TEAEs through 5 years

| Rates of TEAES throughts             | 5 years                                   |  |
|--------------------------------------|---|--|
| EAIR/100 PY (95% CI)                 | BKZ Total<br>N=153<br>757 PY <sup>a</sup> | BKZ Q4W/Q8W<br>N=52<br>259 PY <sup>b</sup> |
| TEAE summary                         |   |  |
| Any TEAE                             | 171.4 (145.0, 201.2)                      | 199.3 (147.9, 262.7)                       |
| Serious TEAEs                        | 3.6 (2.3, 5.3)                            | 2.0 (0.7, 4.8)                             |
| Discontinuation due to TEAEs in OLE2 | 0.3 (0.0, 1.0)                            | 0.4 (0.0, 2.2)                             |
| Severe TEAEs                         | 4.0 (2.7, 5.8)                            | 3.2 (1.4, 6.4)                             |
| TEAEs leading to death in OLE2       | 0   | 0  |
| Most common TEAEs                    |   |  |
| Nasopharyngitis                      | 9.7 (7.3, 12.7)                           | 9.5 (5.6, 15.0)                            |
| Oral candidiasis                     | 7.6 (5.5, 10.2)                           | 9.4 (5.6, 14.9)                            |
| Coronavirus infection                | 6.1 (4.4, 8.2)                            | 5.3 (2.8, 9.1)                             |
| Upper respiratory tract infection    | 5.8 (4.0, 8.0)                            | 6.8 (3.7, 11.3)                            |
| TEAEs of interest                    |   |  |
| Serious infections                   | 1.2 (0.6, 2.3)                            | 0.8 (0.1, 2.9)                             |
| Active tuberculosis                  | 0   | O  |
| Fungal infections                    | 9.4 (7.0, 12.3)                           | 10.9 (6.7, 16.8)                           |
| Candida infections                   | 7.6 (5.5, 10.2)                           | 9.5 (5.6, 14.9)                            |
| Oral candidiasis                     | 7.6 (5.5, 10.2)                           | 9.4 (5.6, 14.9)                            |
| Definite or probable adjudicated IBD | 0.1 (0.0, 0.7)                            | 0  |
| Adjudicated MACE                     | 0.8 (0.3, 1.8)                            | 0.4 (0.0, 2.2)                             |
| Malignancies                         | 0.7 (0.2, 1.6)                            | 0.8 (0.1, 2.9)                             |
| Excluding NMSC                       | 0.3 (0.0, 1.0)                            | 0.4 (0.0, 2.2)                             |
| Adjudicated SIB                      | 0   | 0  |
| Neutropenia                          | 0.1 (0.0, 0.7)                            | 0  |
| ALT or AST >3x ULN                   | 1.1 (0.5, 2.2)                            | 0.4 (0.0, 2.2)                             |
| ALT or AST >5x ULN <sup>c</sup>      | 0.4 (0.1, 1.2)                            | 0  |
| Serious hypersensitivity reactions   | 0   | 0  |
| Injection site reactions             | 2.1 (1.2, 3.5)                            | 3.4 (1.5, 6.8)                             |
|                                      |   |  |

[a] 7.57/100 PY = 757 PY; [b] 2.59/100 PY = 259 PY; [c] Patients with elevations >5x ULN were a subset of patients with elevations >3x ULN.

ALT: alanine aminotransferase; AST: aspartate aminotransferase; BKZ: bimekizumab; BMI: body mass index; BSA: body surface area; CI: confidence interval; DLQI: Dermatology Life Quality Index; PASI 90: ≥90% improvement from baseline in PASI; Pasi 100: 100% improvement from baseline in Psoriasis Area and Severity Index; PASI: aspartate aminotransferase; BKZ: bimekizumab; BMI: body mass index; BMI: body mass index; BMI: body surface area; CI: confidence interval; DLQI: Dermatology Life Quality Index; PASI 90: ≥90% improvement from baseline in Psoriasis Area and Severity Index; PASI 100: 100% improvement from baseline in Psoriasis Area and Severity Index; PASI: standard deviation; TEAE: treatment-emergent adverse event; TNF: tumor necrosis factor; ULN: upper limit of normal.

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