Bimekizumab efficacy and safety through three years in patients with moderate to severe plaque psoriasis: Long-term results from the BE SURE randomised controlled trial and the BE BRIGHT open-label extension

CONTENT PROVIDED FOR SHAREHOLDERS, INVESTORS AND OTHER CAPITAL MARKET PARTICIPANTS ONLY Presented at EADV 2022 | Milan, Italy | 7–10 September 2022

Objectives

To evaluate the long-term efficacy and safety of bimekizumab (BKZ) over three years in patients with moderate to severe plaque psoriasis who enrolled in the BE SURE phase 3 trial and entered the **BE BRIGHT open-label extension (OLE).**

Introduction

- In BE SURE (NCT03412747), BKZ demonstrated superior efficacy compared with adalimumab (ADA) over 24 weeks. After patients switched from ADA to BKZ at Week 24, responses improved and were maintained over two years, with no unexpected safety findings.¹
- Here, we consider long-term efficacy and safety over three years.

Materials and Methods

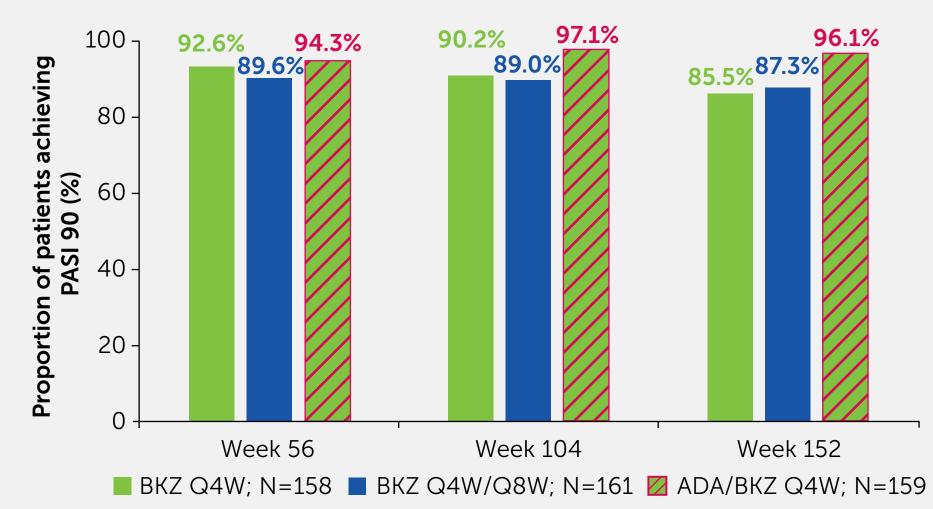
- Treatment in BE SURE was as shown in Figure 1.
- Upon completion of BE SURE, patients could enrol in the BE BRIGHT OLE (NCT03598790; Figure 1).^{1–3}
- Dose adjustments (to BKZ 320 mg every 4 weeks [Q4W] or every 8 weeks [Q8W]) could occur at Week 56 and Week 80 (OLE Week 24) based on achievement of \geq 90% improvement from baseline in Psoriasis Area and Severity Index (PASI 90). All patients received BKZ Q8W from Week 104 (OLE Week 48; or next clinic visit).
- Efficacy outcomes are reported for the intention-to-treat (ITT) population through Week 152 by initial randomisation group at BE SURE baseline.
- Data are reported using modified non-responder imputation (mNRI), NRI, and as the observed case (OC).
- For mNRI, patients who discontinued treatment due to lack of efficacy were considered non-responders at subsequent timepoints; multiple imputation was used for all other missing data.
- Safety data are reported for Weeks 104–152 (data cut-off: 23 Oct 2021), and include treatment-emergent adverse events (TEAEs) reported using exposure-adjusted incidence rates (EAIRs). Two-year safety data have been reported previously (Weeks 0-104).^{1,2}
- Overview of adverse events and the most common TEAEs are reported by both by initial randomisation group regardless of BKZ OLE dosing regimen, and for all patients pooled (BKZ Total). BKZ Total only was used for safety topics of interest.

Results

- In BE SURE, 478 patients were randomised 1:1:1 to: BKZ Q4W/Q4W (N=158), BKZ Q4W/Q8W (N=161), and ADA/BKZ Q4W (N=159) (Figure 1). Baseline demographics have been reported previously and were aligned across treatment arms.²
- BKZ-randomised patients maintained high levels of PASI 90 and PASI 100 responses to three years of treatment (Week 152/OLE Week 96; Figure 2; Table 1).
- Among ADA-randomised patients, the rapid increases seen in PASI 90 and PASI 100 responses after the Week 24 ADA to BKZ switch were durable to Week 152, reaching similar levels to BKZ-randomised patients (Figure 2; Table 1).
- These trends were also reflected in DLQI 0/1 responses over three years (Figure 2; Table 1).
- The most common TEAEs across BKZ-treated patients were coronavirus infection, oral candidiasis, and nasopharyngitis (Table 2). Rates of safety topics of interest were low (Table 3).
- Two coronavirus infections were reported as serious; only one was confirmed by testing.

Summary

Percentage of patients achieving PASI 90 at Weeks 56, 104, and 152 (mNRI)



High initial PASI 90 response rates among BKZ-randomised patients were maintained to Week 152. Additionally, PASI 90 response rates in patients switching from ADA to BKZ rapidly increased and were sustained over three years of treatment. There were no unexpected safety findings.

Table 1 Overview of efficacy outcomes (mNRI, NRI, OC)

| | BKZ Q4W/Q4W | | | BKZ Q4W/Q8W | | | ADA/BKZ Q4W | | |
|-----------------|-------------|--------|---------|-------------|--------|---------|-------------|--------|---------|
| | N=158 | | | N=161 | | | N=159 | | |
| | mNRI, | NRI, | OC, | mNRI, | NRI, | OC, | mNRI, | NRI, | OC, |
| | % | n (%) | n/N (%) | % | n (%) | n/N (%) | % | n (%) | n/N (%) |
| PASI 90 | | | | | | | | | |
| Week 56 | 92.6 | 134 | 134/140 | 89.6 | 133 | 133/143 | 94.3 | 130 | 130/133 |
| | | (84.8) | (95.7) | | (82.6) | (93.0) | | (81.8) | (97.7) |
| Week 104 | 90.2 | 121 | 121/129 | 89.0 | 119 | 119/126 | 97.1 | 121 | 121/123 |
| | | (76.6) | (93.8) | | (73.9) | (94.4) | | (76.1) | (98.4) |
| Week 152 | 85.5 | 113 | 113/123 | 87.3 | 110 | 110/115 | 96.1 | 112 | 112/114 |
| | | (71.5) | (91.9) | | (68.3) | (95.7) | | (70.4) | (98.2) |
| PASI 100 | | | | | | | | | |
| Week 56 | 78.3 | 114 | 114/140 | 75.8 | 113 | 113/143 | 74.0 | 106 | 106/133 |
| | | (72.2) | (81.4) | | (70.2) | (79.0) | | (66.7) | (79.7) |
| Week 104 | 72.0 | 102 | 102/129 | 67.5 | 101 | 101/126 | 71.3 | 98 | 98/123 |
| | | (64.6) | (79.1) | | (62.7) | (80.2) | | (61.6) | (79.7) |
| Week 152 | 65.8 | 95 | 95/123 | 62.3 | 89 | 89/115 | 69.2 | 92 | 92/114 |
| | | (60.1) | (77.2) | | (55.3) | (77.4) | | (57.9) | (80.7) |
| DLQI 0/1 | | | | • | | | | | |
| Week 56 | 78.5 | 117 | 117/140 | 81.9 | 127 | 127/142 | 81.0 | 116 | 116/132 |
| | | (74.1) | (83.6) | | (78.9) | (89.4) | | (73.0) | (87.9) |
| Week 104 | 80.8 | 112 | 112/130 | 82.1 | 110 | 110/126 | 82.0 | 112 | 112/124 |
| | | (70.9) | (86.2) | | (68.3) | (87.3) | | (70.4) | (90.3) |
| Week 152 | 77.1 | 101 | 101/121 | 81.4 | 103 | 103/115 | 78.0 | 101 | 101/112 |
| | | (63.9) | (83.5) | | (64.0) | (89.6) | | (63.5) | (90.2) |
| | | | | | | | | | |

Data to Week 104 have been reported previously.¹ Data are presented for the ITT population by initial randomisation group. Week 104 corresponds to OLE Week 48, and Week 152 to OLE Week 96.

ADA: adalimumab; BKZ: bimekizumab; CI: confidence interval; DLQI: Dermatology Life Quality Index; EAIR: exposure-adjusted incidence rate; IBD: inflammatory bowel disease; ITT: intention-to-treat; MACE: major adverse cardiac event; mNRI: modified nonresponder imputation; NMSC: non-melanoma skin cancer; NRI: non-responder imputation; OC: observed case; OLE: open-label extension; PASI 90/100: >90%/100% improvement from BE SURE baseline in Psoriasis Area and Severity Index; PY: patient-years; Q4W: every 4 weeks; Q8W: every 8 weeks; SIB: suicidal ideation and behaviour; TEAE: treatment-emergent adverse event

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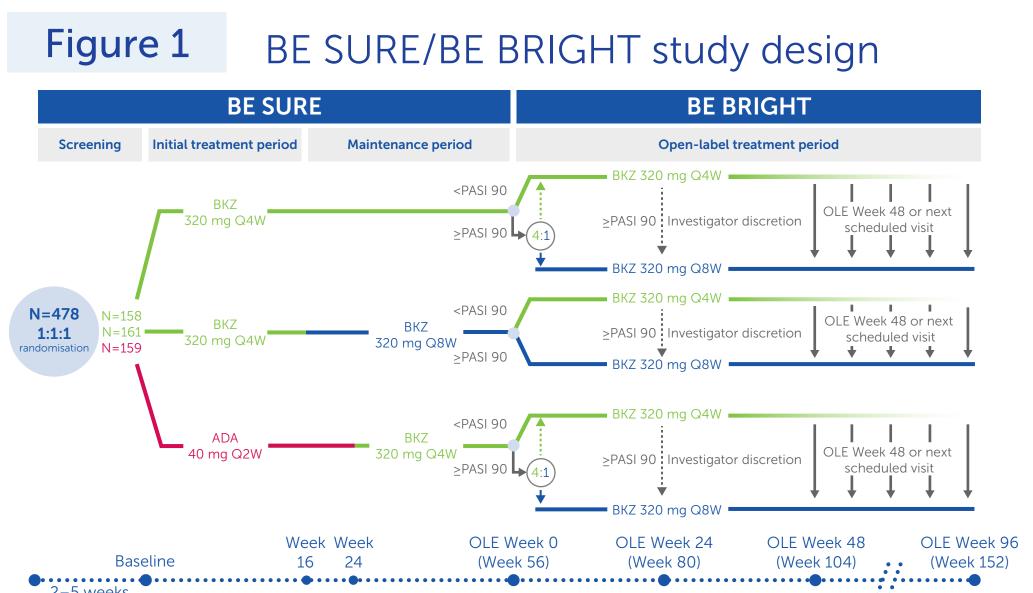


Table 2

EAIR/100 (95% CI) Any TEAE Serious T Discontinu due to TEA Severe TE

Deaths **Most Com** Coronaviru infection

Nasophary Oral candi Urinary tra infection

Two-year safety data have been reported previously (Weeks 0–104).^{1,2} Data are presented as EAIRs of new cases per 100 patient-years from Weeks 104–152 for all patients who received >1 BKZ dose in the Week 104–152 period (data cut-off: 23 Oct 2021), both by initial randomisation group regardless of BKZ OLE dosing regimen, and for all patients pooled (BKZ Total). All patients received BKZ Q8W from Week 104 (OLE Week 96; or next visit). aValues in bold are the three most common TEAEs for the treatment group.

Table 3

EAIR/100 Serious inf Active tube IBD

Malignanc NMSC Adjudicate

Serious hy Adjudicate Elevated li

Two-year safety data have been reported previously (Weeks 0–104).^{1,2} Data are presented as EAIRs of new cases per 100 patient-years from Weeks 104–152 for all patients who received >1 BKZ dose in the Week 104–152 period (data cut-off: 23 Oct 2021) for all patients pooled (BKZ Total). All patients received BKZ Q8W from Week 104 (OLE Week 96; or next visit). Diamant Thaçi,¹ Ron Vender,² Menno de Rie,³ Curdin Conrad,⁴ Jennifer Soung,⁵ Bruce Strober,^{6,7} Maggie Wang,⁸ Nancy Cross,⁸ Delphine Deherder,⁹ Natalie Nunez Gomez,¹⁰ Alice B. Gottlieb¹¹

In BE SURE, patients were randomised 1:1:1 to: BKZ 320 mg Q4W for 56 weeks; BKZ 320 mg Q4W for 16 weeks then Q8W through Weeks 16–56; or ADA 40 mg Q2W for 24 weeks followed by BKZ 320 mg Q4W to Week 56. At Week 56, dose adjustments (to BKZ 320 mg Q4W or Q8W) could occur based on whether patients achieved PASI 90. Patients receiving BKZ 320 mg Q4W at Week 56 who achieved PASI 90 were randomised 4:1 to BKZ 320 mg Q4W or Q8W. At Week 24 of BE BRIGHT, for patients receiving BKZ 320 mg Q4W, if PASI 90 was achieved, the investigator could change the patient's dosing interval from 320 mg Q4W to 320 mg Q8W. All patients were switched to BKZ 320 mg Q8W at the next scheduled clinic visit on or after the Week 104 visit (OLE Week 48) following protocol amendment.

Overview of adverse events during BKZ treatment in patients from BE SURE who entered BE BRIGHT, Weeks 104–152

| BKZ Total N=380 | BKZ Q4W/Q4W N=132 | BKZ Q4W/Q8W N=124 | ADA/BKZ Q4W | | | | |
|---------------------------|---|---|---|--|--|--|--|
| | N=132 | N_12/ | | | | | |
| | | IN=124 | N=124 | | | | |
| <u>)1./ (88./, 116.0)</u> | 108.0 (85.5, 134.6) | 99.4 (77.6, 125.4) | 97.6 (76.2, 123.1) | | | | |
| 6.2 (3.9, 9.5) | 5.1 (1.9, 11.1) | 8.2 (3.7, 15.5) | 5.5 (2.0, 11.9) | | | | |
| 2.9 (1.4, 5.4) | 2.5 (0.5, 7.4) | 3.5 (1.0, 9.1) | 2.7 (0.6, 7.9) | | | | |
| 5.0 (2.9, 8.0) | 3.4 (0.9, 8.7) | 8.2 (3.7, 15.5) | 3.6 (1.0, 9.2) | | | | |
| 1.2 (0.3, 3.0) | 1.7 (0.2, 6.1) | 0.9 (0.0, 4.9) | 0.9 (0.0, 5.0) | | | | |
| nmon TEAEs ^a | | | | | | | |
| 6.6 (4.1, 10.0) | 5.2 (1.9, 11.3) | 8.3 (3.8, 15.8) | 6.4 (2.6, 13.3) | | | | |
| 4.8 (2.7, 7.7) | 4.3 (1.4, 10.1) | 2.7 (0.6, 7.8) | 7.4 (3.2, 14.6) | | | | |
| 6.3 (3.9, 9.7) | 6.1 (2.5, 12.6) | 7.3 (3.2, 14.4) | 5.6 (2.0, 12.1) | | | | |
| 3.5 (1.8, 6.2) | 3.4 (0.9, 8.8) | 5.4 (2.0, 11.7) | 1.8 (0.2, 6.6) | | | | |
| | 6.2 (3.9, 9.5) 2.9 (1.4, 5.4) 5.0 (2.9, 8.0) 1.2 (0.3, 3.0) 6.6 (4.1, 10.0) 4.8 (2.7, 7.7) 6.3 (3.9, 9.7) | 2.9 (1.4, 5.4) 2.5 (0.5, 7.4) 5.0 (2.9, 8.0) 3.4 (0.9, 8.7) 1.2 (0.3, 3.0) 1.7 (0.2, 6.1) 6.6 (4.1, 10.0) 5.2 (1.9, 11.3) 4.8 (2.7, 7.7) 4.3 (1.4, 10.1) 6.3 (3.9, 9.7) 6.1 (2.5, 12.6) | 6.2 (3.9, 9.5) 5.1 (1.9, 11.1) 8.2 (3.7, 15.5) 2.9 (1.4, 5.4) 2.5 (0.5, 7.4) 3.5 (1.0, 9.1) 5.0 (2.9, 8.0) 3.4 (0.9, 8.7) 8.2 (3.7, 15.5) 1.2 (0.3, 3.0) 1.7 (0.2, 6.1) 0.9 (0.0, 4.9) 6.6 (4.1, 10.0) 5.2 (1.9, 11.3) 8.3 (3.8, 15.8) 4.8 (2.7, 7.7) 4.3 (1.4, 10.1) 2.7 (0.6, 7.8) 6.3 (3.9, 9.7) 6.1 (2.5, 12.6) 7.3 (3.2, 14.4) | | | | |

Safety topics of interest (BKZ Total)

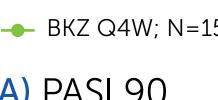
| PY (95% CI) | BKZ Total (N=380) |
|--------------------------|-------------------|
| fections | 1.8 (0.6, 3.8) |
| perculosis | 0.0 |
| | 0.6 (0.1, 2.1) |
| cies | 0.6 (0.1, 2.1) |
| | 0.0 |
| ed SIB | 0.0 |
| persensitivity reactions | 0.0 |
| ed MACE | 0.9 (0.2, 2.6) |
| iver enzymes | 3.2 (1.6, 5.8) |
| | |

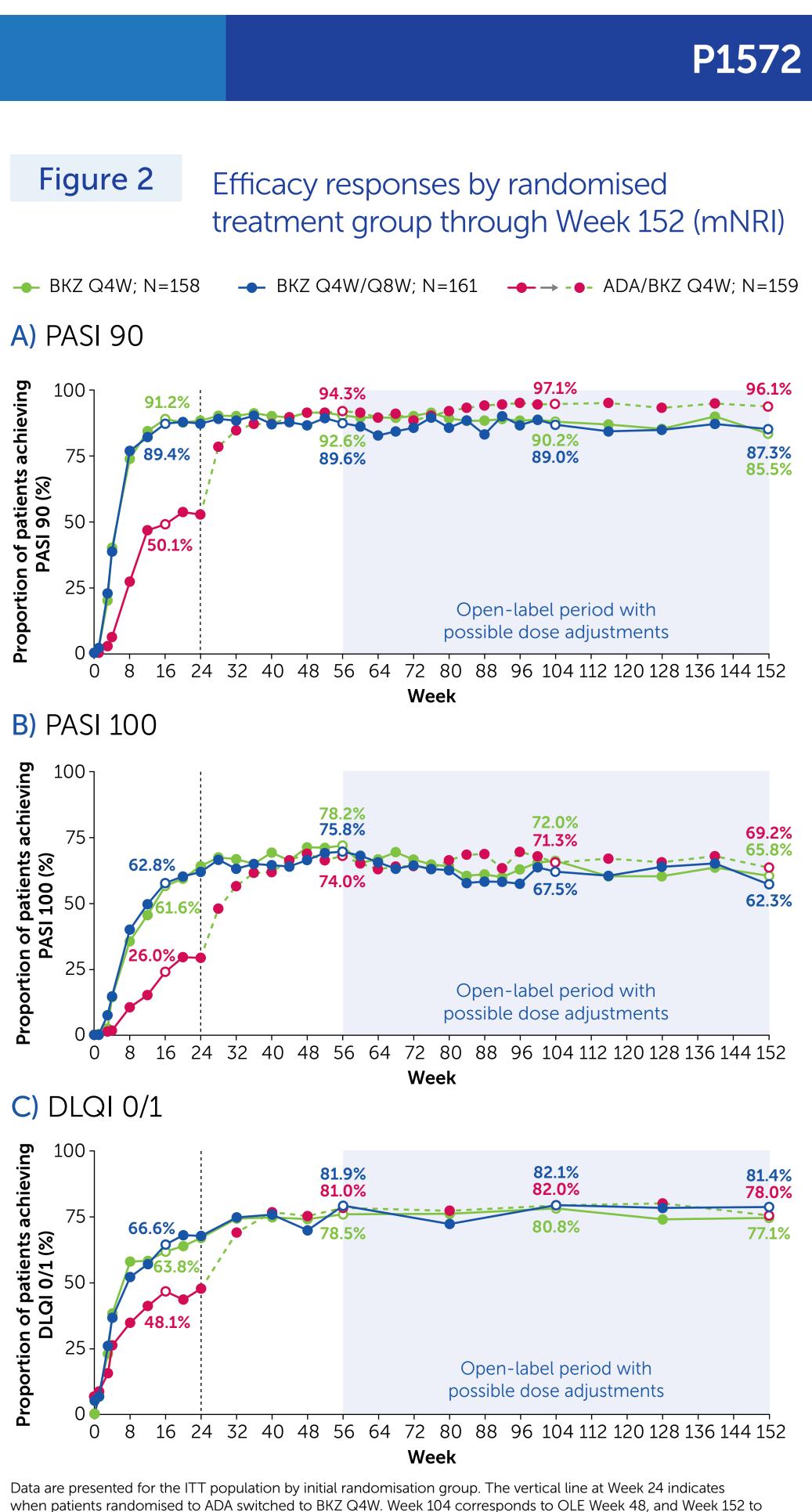
Institutions: ¹Institute and Comprehensive Center for Inflammation Medicine, University Hospital of Lübeck, Lübeck, Cermany; ²Dermatrials Research Inc., Hamilton, Ontario, Canada; ³Department of Dermatology, Amsterdam University Medical Centres, Amsterdam, Netherlands; ⁴Department of Dermatology, Amsterdam University Hospital of Lübeck, Lübeck, Center for Inflammation Medicine, University Hospital of Lübeck, Center for Inflammation Medicine, Center fore

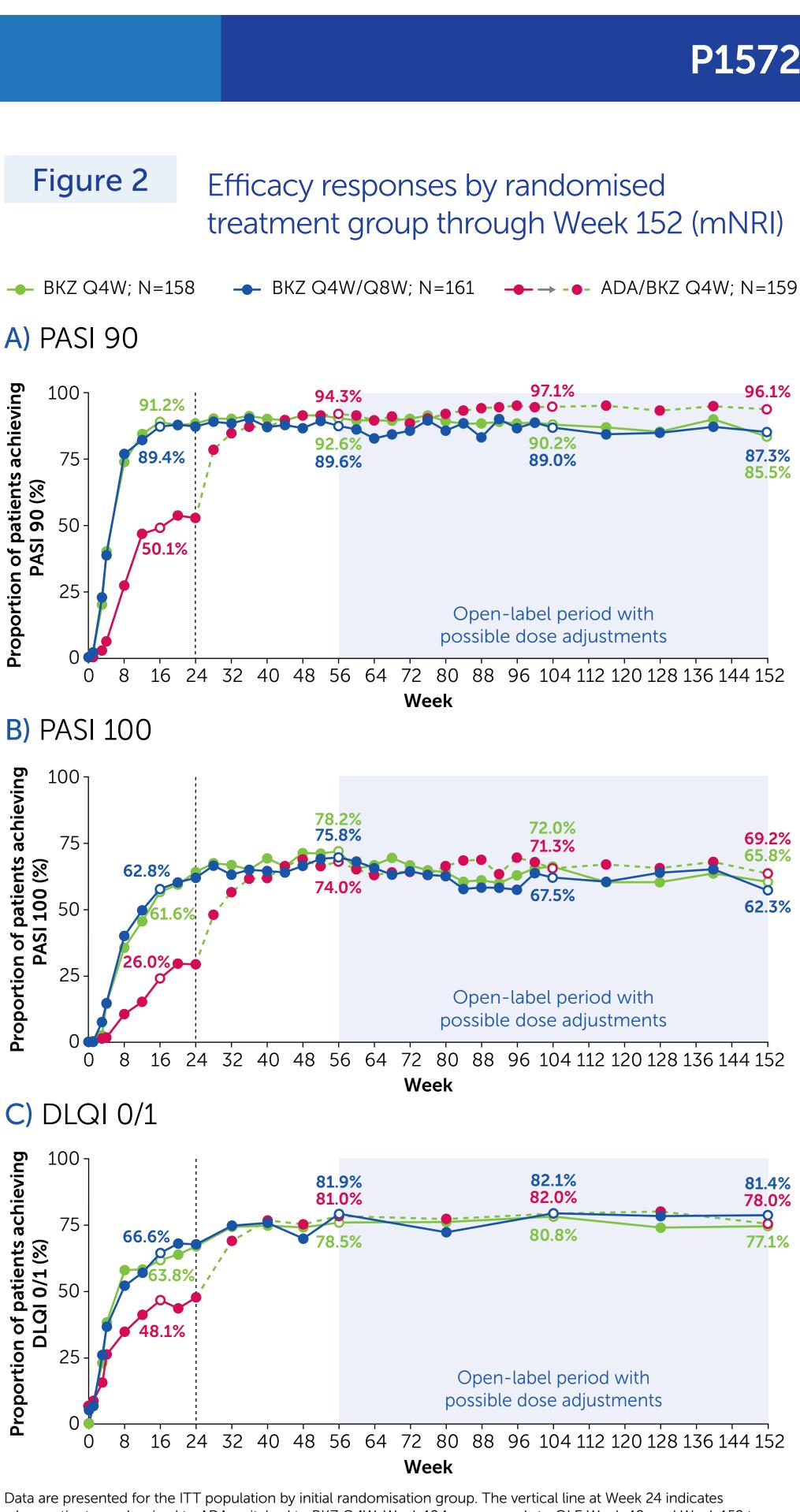
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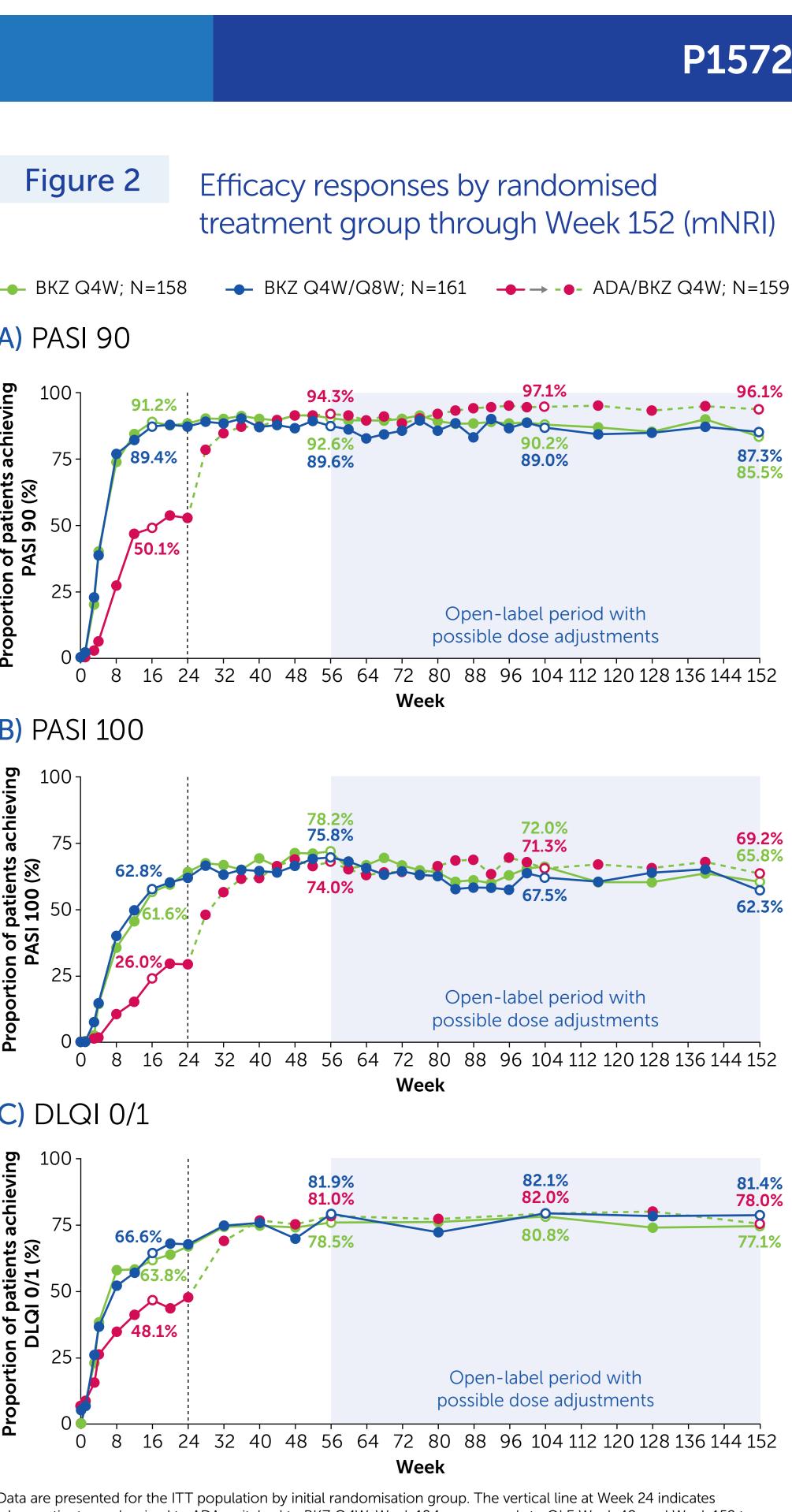


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OLE Week 96.

Conclusions

Clinical and health-related quality of life responses observed during the first two years of treatment were sustained to three years of treatment, regardless of BKZ maintenance dose frequency prior to the third year.

Additionally, responses were sustained in the third year, regardless of all patients switching to BKZ every 8 weeks.

sustained to Week 152. safety findings.

Increases in responses after the ADA to BKZ switch were also

BKZ was well-tolerated over three years, with no unexpected