

# Bimekizumab maintenance of response over three years in patients with moderate to severe plaque psoriasis who responded at Week 16: Results from the BE BRIGHT open-label extension trial

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## Objectives

To evaluate maintenance of response over three years among patients with moderate to severe plaque psoriasis who had an initial efficacy response after 16 weeks' bimekizumab (BKZ) treatment and entered the BE BRIGHT open-label extension (OLE), including those who received continuous BKZ every 8 weeks (Q8W) dosing in the maintenance period and the OLE.

## Introduction

- Loss of response to biologics over time is commonly observed in plaque psoriasis;<sup>1</sup> it is therefore important to understand long-term efficacy of new therapies.
- BE BRIGHT (NCT03598790) is an ongoing, multicentre, OLE study assessing long-term safety, tolerability, and efficacy of BKZ in patients with moderate to severe plaque psoriasis who completed one of three phase 3 feeder studies.<sup>2–4</sup>
- Data reported previously indicated that response to BKZ treatment is maintained over two years.<sup>5</sup>

## Methods

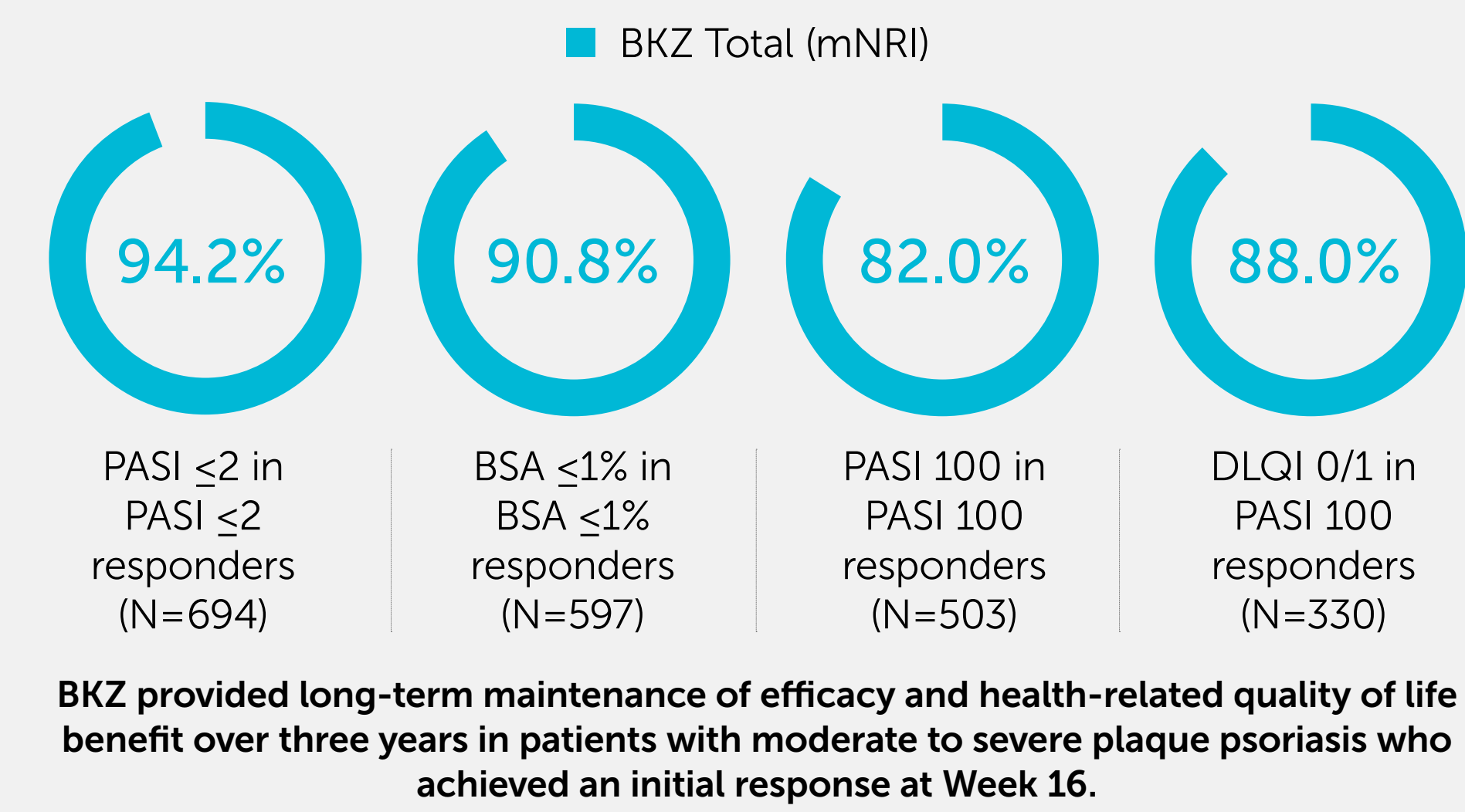
- All patients who completed one of the BE SURE (NCT03412747), BE VIVID (NCT03370133), and BE READY (NCT03410992) phase 3 studies were eligible to enrol in BE BRIGHT and were assigned to treatment as shown in Figure 1.<sup>2–4</sup>
- Here, maintenance of Psoriasis Area and Severity Index (PASI)  $\leq 2$  among Week 16 PASI  $\leq 2$  responders, maintenance of body surface area (BSA)  $\leq 1\%$  among Week 16 BSA  $\leq 1\%$  responders, and maintenance of PASI 100 (100% improvement from baseline in PASI) and Dermatology Life Quality Index (DLQI) 0/1 among Week 16 PASI 100 responders are reported through Year 3 (OLE Week 96).
- Data are presented for all BKZ-treated patients (BKZ Total) who entered the OLE, and in the subset of patients who received BKZ 320 mg every 4 weeks (Q4W) through Week 16 followed by continuous BKZ 320 mg Q8W (Q4W/Q8W).
- Data are reported using modified non-responder imputation (mNRI), NRI, and as the observed case (OC).
  - For mNRI, patients who discontinued due to lack of efficacy were considered non-responders at subsequent timepoints; multiple imputation was used for all other missing data.

## Results

- 989 patients were randomised to BKZ Q4W at baseline in the feeder studies; 694 Week 16 PASI  $\leq 2$  responders, 597 BSA  $\leq 1\%$  responders, and 503 Week 16 PASI 100 responders entered the OLE. Baseline characteristics are presented in Table 1.
- 94.2%, 90.8%, and 82.0% of BKZ-treated patients who achieved PASI  $\leq 2$ , BSA  $\leq 1\%$ , and PASI 100, respectively, at Week 16 maintained their response at Year 3 (OLE Week 96) (Figure 2; Table 2).
- DLQI 0/1 response rates in BKZ-treated Week 16 PASI 100 responders increased through the first year of BKZ treatment, and were maintained through to the end of Year 3 (OLE Week 96) in 88.0% of patients (Figure 2; Table 2).

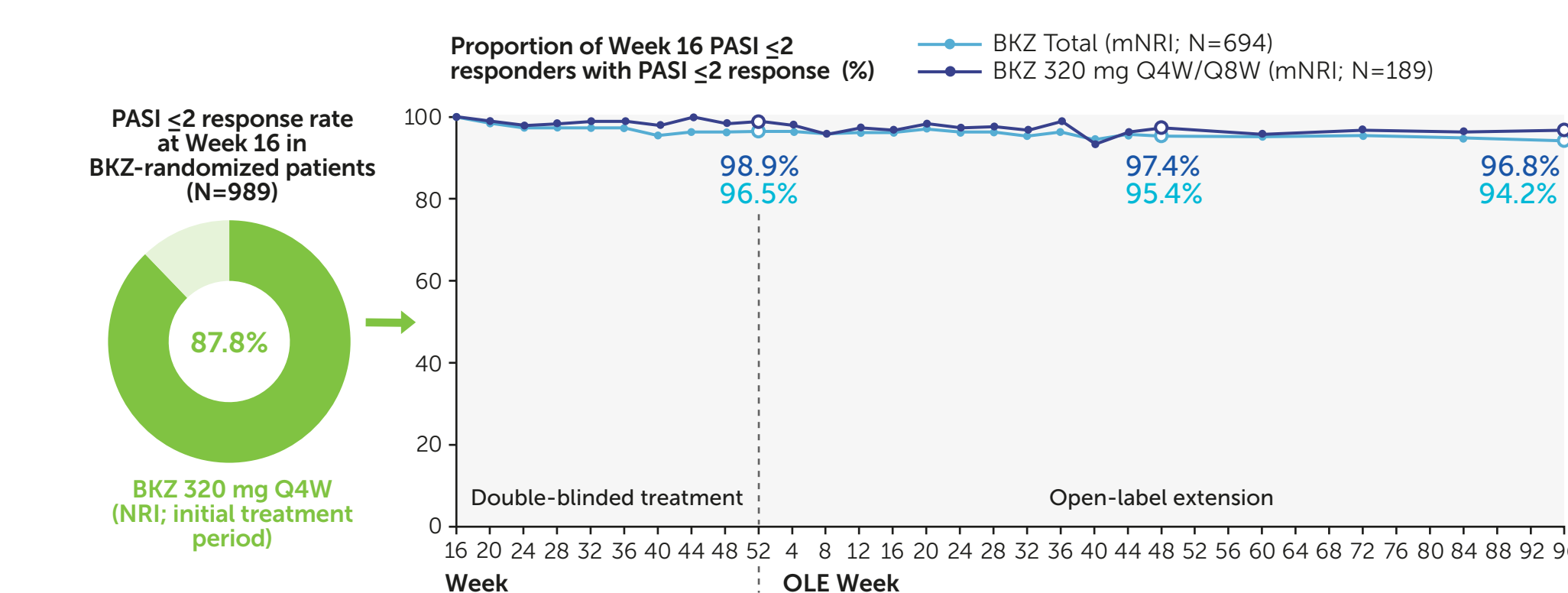
## Summary

Maintenance of Week 16 responses at Year 3 (OLE Week 96)

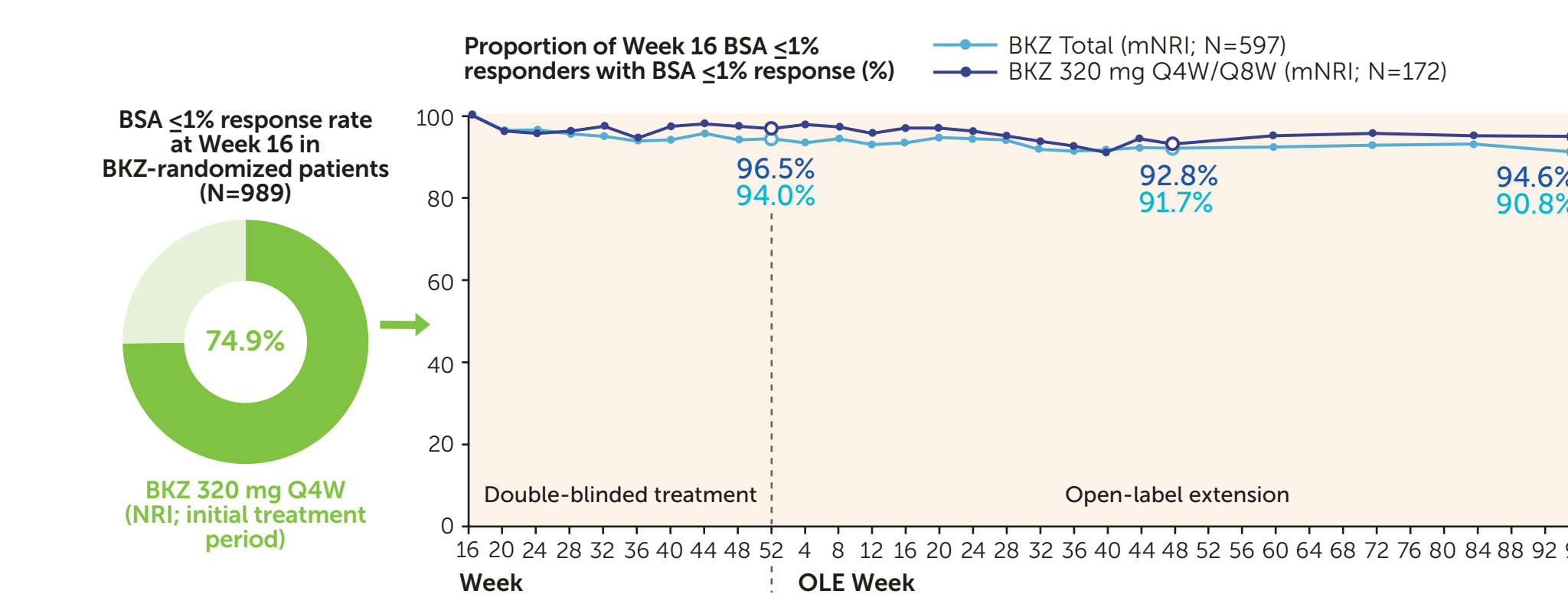


## Figure 2 Maintenance of efficacy in patients with a Week 16 response who entered the OLE (mNRI)

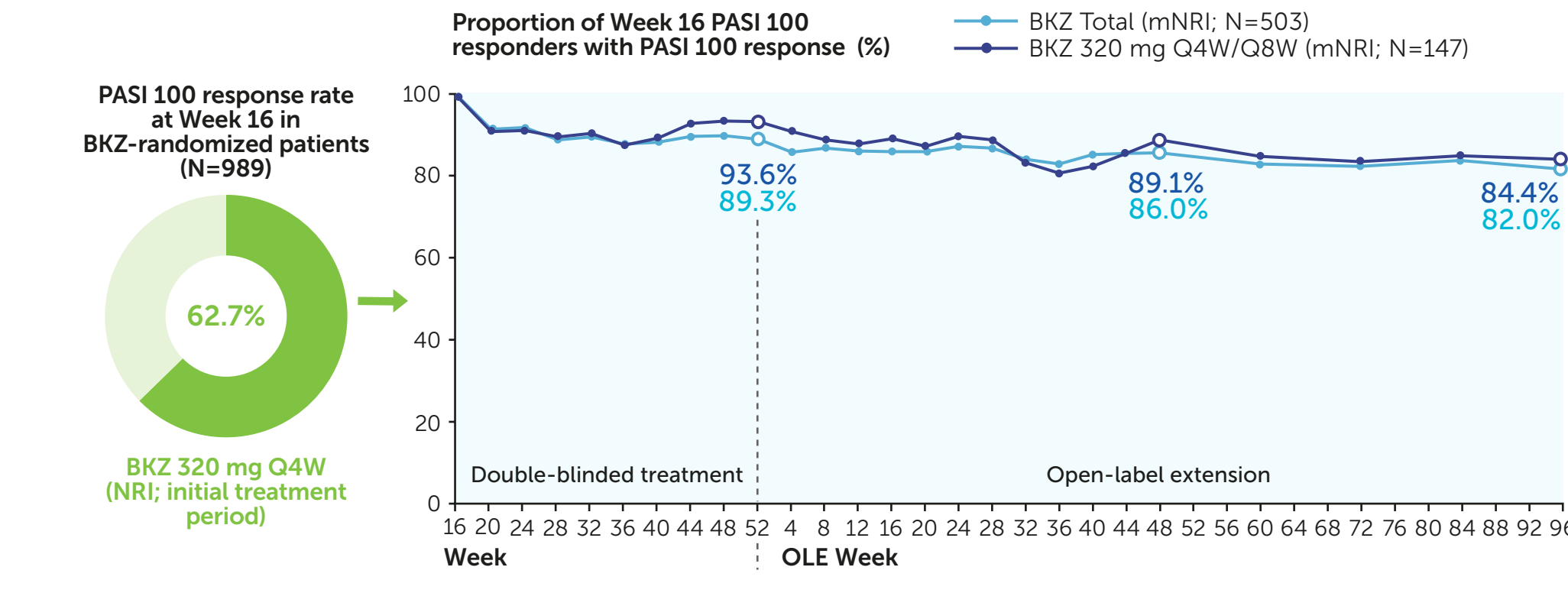
A) PASI  $\leq 2$  in Week 16 PASI  $\leq 2$  responders



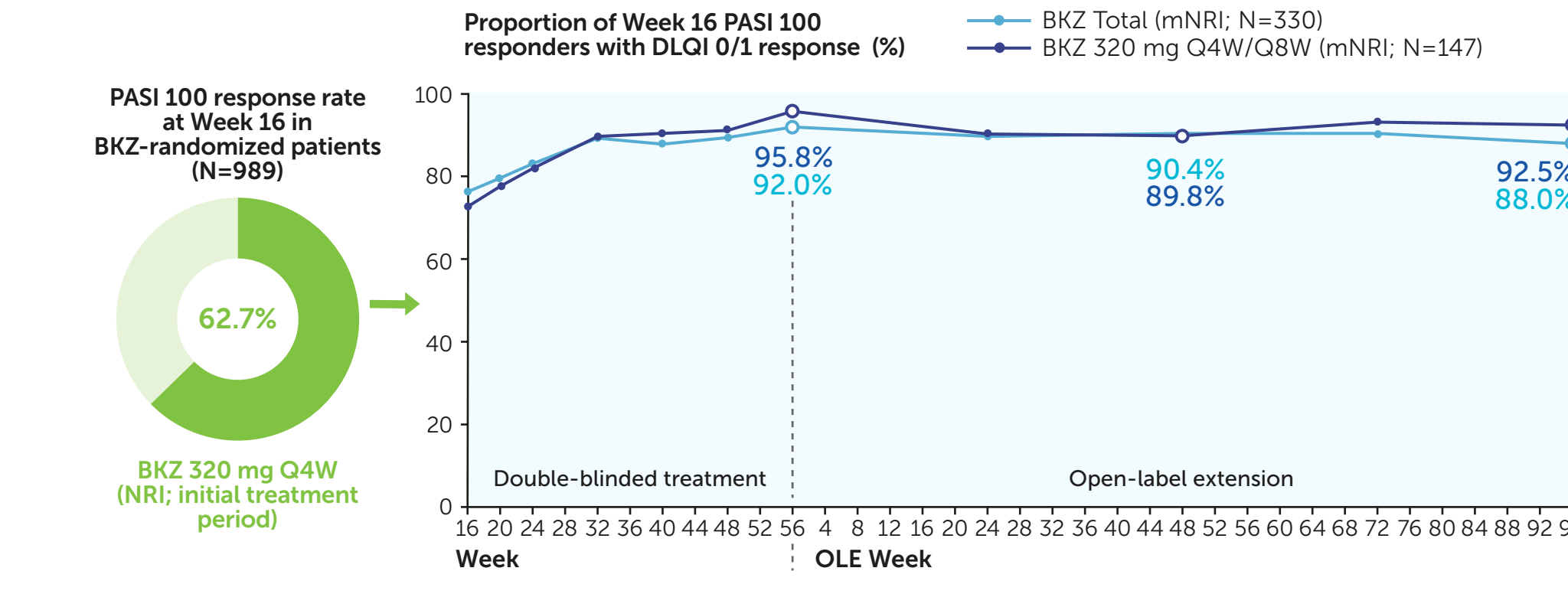
B) BSA  $\leq 1\%$  in Week 16 BSA  $\leq 1\%$  responders



C) PASI 100 in Week 16 PASI 100 responders



D) DLQI 0/1 in Week 16 PASI 100 responders<sup>a</sup>



Week 16 responses are shown for all patients randomised to BKZ 320 mg Q4W in the initial treatment period. Due to the differing lengths of feeder studies, Week 56 data for PASI  $\leq 2$ , BSA  $\leq 1\%$  and PASI 100 responses in BE SURE and BE READY are not presented in these pooled analyses. <sup>a</sup>DLQI was measured on a different schedule in BE VIVID compared with BE SURE and BE READY; DLQI 0/1 data for patients enrolled in BE VIVID are therefore not included, due to the lack of common visits at which DLQI was recorded.

**BKZ:** bimekizumab; **BSA:** body surface area; **DLQI:** Dermatology Quality of Life Index; **mNRI:** modified non-responder imputation; **NRI:** non-responder imputation; **OC:** observed case; **OLE:** open-label extension; **PASI:** Psoriasis Area and Severity Index; **PASI 100:** 100% improvement from baseline in PASI; **Q4W:** every 4 weeks; **Q8W:** every 8 weeks; **SD:** standard deviation.

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References: <sup>1</sup>Yu ZN et al. Br J Dermatol 2020;183:294–302; <sup>2</sup>Warren RB et al. N Engl J Med 2021;385:130–41; <sup>3</sup>Reich K et al. Lancet 2021;397:475–86; <sup>4</sup>Gordon KB et al. Lancet 2021;397:475–86; <sup>5</sup>Strober B et al. Presented at EADV 2021. P1317. **Author Contributions:** Substantial contributions to study conception/ design, or acquisition/analysis/interpretation of data: **BS, YT, UM, ML, PF, RGL, JB, MW, VV, BSz, VC, CP.** Drafting of the publication, or revising it critically for important intellectual content: **BS, YT, UM, ML, PF, RGL, JB, MW, VV, BSz, VC, CP.** Final approval of the publication: **BS, YT, UM, ML, PF, RGL, JB, MW, VV, BSz, VC, CP.** **Author Disclosures:** **BS:** Consultant (honoraria): AbbVie, Amgen, Bristol Myers Squibb, Celgene, Eli Lilly, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Sanofi, Sun Pharma, and Valeant; **YT:** Principal Investigator for AbbVie, Amgen, Boehringer Ingelheim, Celgene, GSK, Hexima, Janssen, Kymab, LEO Pharma, MedImmune, Merck, Novartis, Pfizer, Regeneron, Reistone, Roche, Sanofi, Sun Pharma, Teva, UCB Pharma, and Valeant. He has served on advisory boards for AbbVie, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Sanofi, Sun Pharma, UCB Pharma, and Valeant. He has served as a consultant for Aslan, Bristol Myers Squibb, Eli Lilly, Galderma, GenesisCare, Janssen, LEO Pharma, Mayne Pharma, MedImmune, Novartis, Pfizer, Roche, UCB Pharma, and Wintermute. He has received travel grants from AbbVie, Eli Lilly, Galderma, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Roche, Sun Pharma, and Valeant. He has served as a speaker for or received honoraria from AbbVie, Amgen, Celgene, Eli Lilly, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Roche, Sanofi, Sun Pharma, and Valeant. He has served as an investigator for AbbVie, Amgen, Bristol Myers Squibb, Celgene, Eli Lilly, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Sanofi, Regeneron, and UCB Pharma. **AC:** Acknowledgements: This study was funded by UCB Pharma. We thank the patients and their caregivers in addition to the investigators and their teams who contributed to this study. The authors acknowledge Susanne Wiegatz, MSc, UCB Pharma, Monheim, Germany for publication coordination, Natalie Nunez Gomez, MD, former employee of UCB Pharma, Monheim, Germany, for critical review, Alexa Holland, MSc, Costello Medical, Manchester, UK for medical writing and editorial assistance and the Design 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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Figure 1 Study design (included patients)

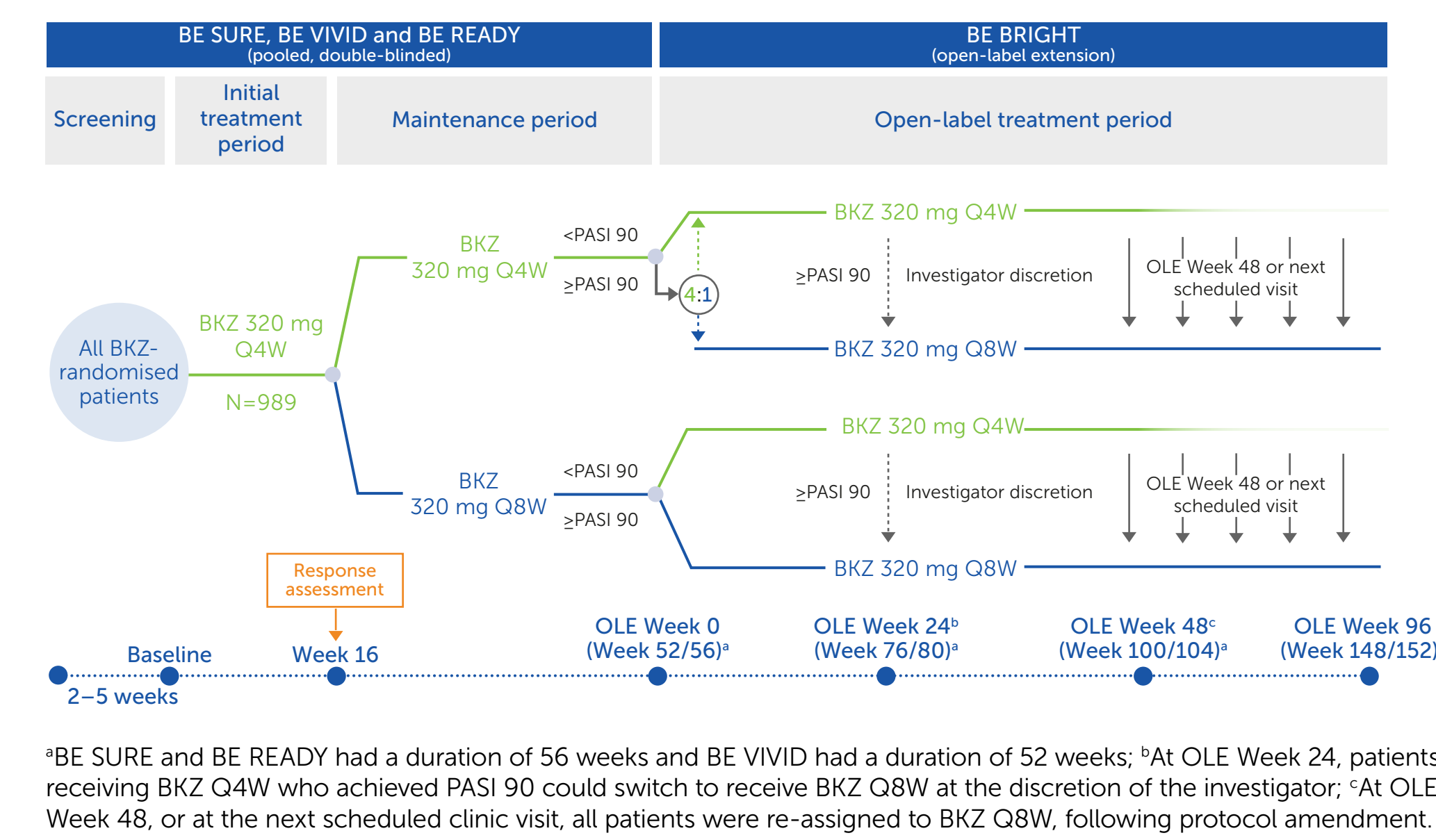


Table 1 Baseline characteristics

	Week 16 PASI $\leq 2$ responders BKZ Total (N=694)	Week 16 BSA $\leq 1\%$ responders BKZ Total (N=597)	Week 16 PASI 100 responders BKZ Total (N=503)
Age (years), mean $\pm$ SD	45.0 $\pm$ 13.3	44.9 $\pm$ 13.3	44.8 $\pm$ 13.2
Male, n (%)	490 (70.6)	420 (70.4)	352 (70.0)
Weight (kg), mean $\pm$ SD	88.7 $\pm$ 20.5	88.4 $\pm$ 20.3	87.8 $\pm$ 19.3
Duration of psoriasis (years), mean $\pm$ SD	18.4 $\pm$ 12.5	18.3 $\pm$ 12.6	18.0 $\pm$ 12.3
PASI, mean $\pm$ SD	21.2 $\pm$ 7.5	21.1 $\pm$ 7.4	21.3 $\pm$ 7.2
BSA (%), mean $\pm$ SD	27.0 $\pm$ 15.4	26.7 $\pm$ 15.2	26.7 $\pm$ 14.9
DLQI, mean $\pm$ SD	10.6 $\pm$ 6.3	10.7 $\pm$ 6.3	10.9 $\pm$ 6.4
Any prior systemic therapy, n (%)	556 (80.1)	486 (81.4)	415 (82.5)
Prior biologic therapy, n (%)	278 (40.1)	245 (41.0)	210 (41.7)

Data are reported for all patients who were treated continuously with BKZ through the initial and maintenance periods, achieved the efficacy response of interest at Week 16 and entered the OLE.

Table 2 Summary of efficacy outcomes (NRI and OC)

	Week 16 PASI $\leq 2$ Responders			
	NRI, n (%)	OC, n/n (%) <sup>a</sup>	NRI, n (%)	OC, n/n (%) <sup>a</sup>
	BKZ Total N=694		BKZ 320 mg Q4W/Q8W <sup>b</sup> N=189	
<b>PASI <math>\leq 2</math> Response</b>				
Year 1 (Week 52)	663 (95.5)	663/678 (97.8)	186 (98.4)	186/188 (98.9)
Year 2 (OLE Week 48)	617 (88.9)	622/642 (96.9)	173 (91.5)	173/176 (98.3)
Year 3 (OLE Week 96)	586 (84.4)	592/612 (96.7)	165 (87.3)	165/166 (99.4)
	BKZ Total N=597		BKZ 320 mg Q4W/Q8W <sup>b</sup> N=172	
<b>BSA <math>\leq 1\%</math> Response</b>				
Year 1 (Week 52)	555 (93.0)	555/586 (94.7)	165 (95.9)	165/171 (96.5)
Year 2 (OLE Week 48)	514 (86.1)	516/552 (93.5)	151 (87.8)	151/160 (94.4)
Year 3 (OLE Week 96)	490 (82.1)	491/526 (93.3)	146 (84.9)	146/151 (96.7)
	BKZ Total N=503		BKZ 320 mg Q4W/Q8W <sup>b</sup> N=147	
<b>PASI 100 Response</b>				
Year 1 (Week 52)	447 (88.9)	447/495 (90.3)	137 (93.2)	137/146 (93.8)
Year 2 (OLE Week 48)	413 (82.1)	414/465 (89.0)	125 (85.0)	125/137 (91.2)
Year 3 (OLE Week 96)	383 (76.1)	384/447 (85.9)	113 (76.9)	113/130 (86.9)
	BKZ Total N=330		BKZ 320 mg Q4W/Q8W <sup>b</sup> N=147	
<b>DLQI 0/1 Response<sup>c</sup></b>				
Year 1 (Week 56)	302 (91.5)	302/325 (92.9)	140 (95.2)	140/146 (95.9)
Year 2 (OLE Week 48)	280 (84.8)	281/307 (91.5)	123 (83.7)	123/137 (89.8)
Year 3 (OLE Week 96)	263 (79.7)	263/288 (91.3)	121 (82.3)	121/130 (93.1)

<sup>a</sup>For NRI, patients in BE READY who escaped to open-label BKZ during the randomised withdrawal period are counted as non-responders from the point of escape and throughout all of BE BRIGHT. For OC, data from the point of escape and through Week 56 of BE READY for these patients are considered as missing, and from the point of entry into BE BRIGHT their data are presented as observed. As a result, the number of responders for OC may be higher than the number of responders for NRI for the OLE time points; <sup>b</sup>Continuous Q8W dosing in the maintenance period and the OLE was only possible for patients who entered BE BRIGHT from BE SURE or BE READY; <sup>c</sup>DLQI was measured on a different schedule in BE VIVID compared with BE SURE and BE READY; DLQI 0/1 data for patients enrolled in BE VIVID are therefore not included here, due to the lack of common visits at which DLQI was recorded.

## Conclusions

Among Week 16 responders, efficacy and health-related quality of life response rates were maintained through to three years' BKZ treatment, including among those who received BKZ 320 mg Q4W/Q8W.



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