## Objective

To evaluate the efficacy of bimekizumab (BKZ), as measured by complete or near-complete skin clearance using the Psoriasis Area and Severity Index (PASI), and long-term safety of BKZ in patients with moderate to severe plaque psoriasis over Weeks 48–144 of the **BE RADIANT phase 3b trial.** 

## Background

- Patients who completed the 48-week double-blind period in the BE RADIANT (NCT03536884) phase 3b trial could enter the open-label extension (OLE).<sup>1</sup>
- Clinical improvements in BKZ-treated patients, including patients who switched to BKZ from secukinumab (SEC), have been reported previously through Week 96 of BE RADIANT, with no unexpected safety findings.<sup>1–3</sup>

#### Methods

- This analysis included patients who were randomized to BKZ or SEC at baseline and who were enrolled in the OLE (Weeks 48–144) of the BE RADIANT phase 3b trial.
- All patients received BKZ 320 mg every 4 weeks (Q4W) or 8 weeks (Q8W) in the OLE; all switched to Q8W from Week 64 onwards (Figure 1).

#### Efficacy

- PASI response rates were evaluated for patients who were treated with BKZ or SEC until Week 48 and entered the OLE.
- Efficacy data are reported using observed case (OC), modified non-responder imputation (mNRI), and non-responder imputation (NRI).
- For mNRI, patients discontinuing due to lack of efficacy or treatment-related adverse events were considered non-responders; multiple imputation was used for other missing data.

#### Safety

- Safety data, evaluated as incidence of new cases per 100 patient-years (PY), were grouped for all patients who received  $\geq 1$  BKZ dose in the OLE.
- Data were pooled for all patients who received  $\geq 1$  BKZ dose at Week 48 or later (BKZ Total), up to the data cut-off of May 31, 2022, the date on which the last enrolled patient reached Week 144.
- Treatment-emergent adverse events (TEAEs) were coded according to MedDRA v19.0.

#### Results

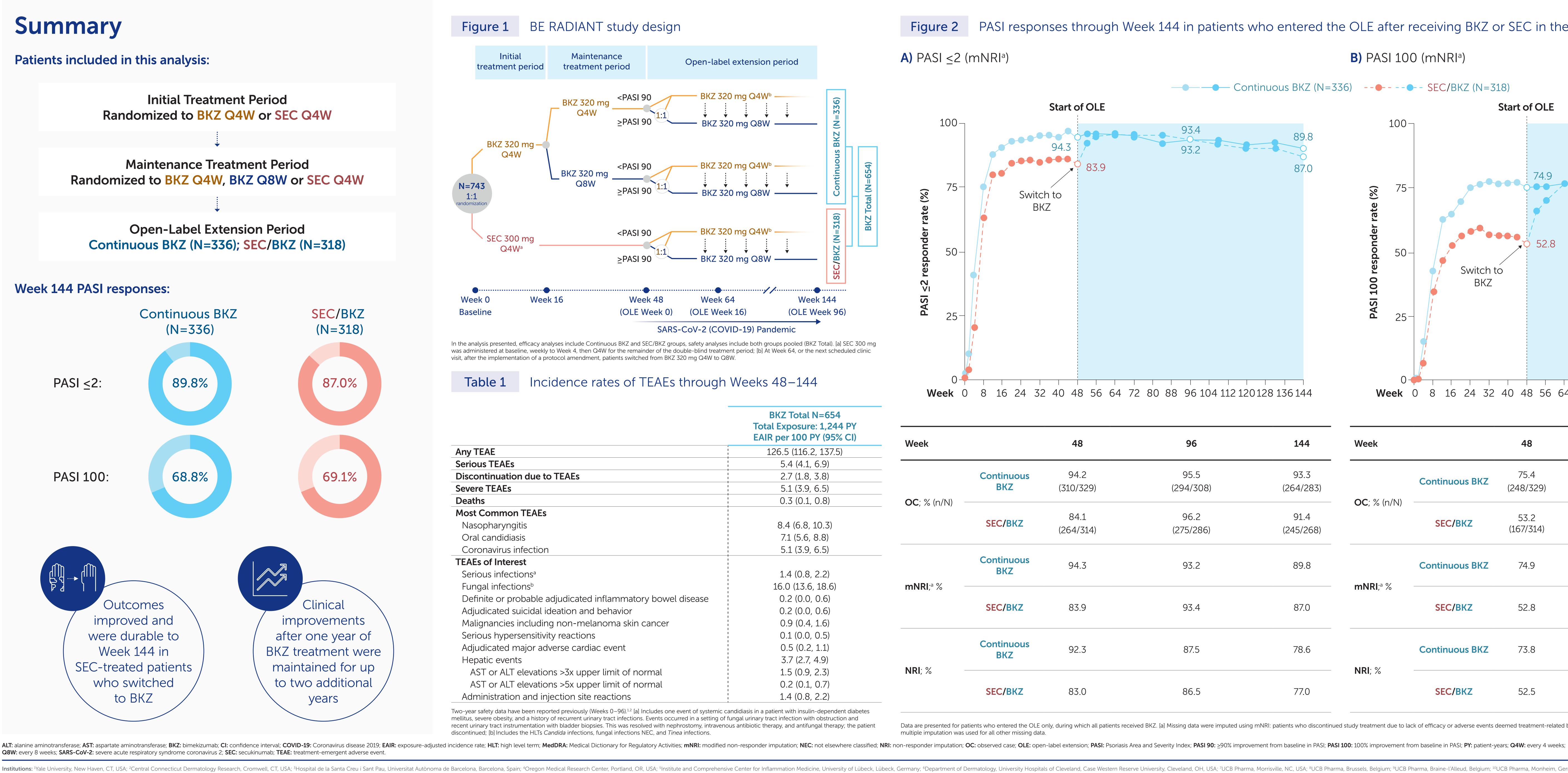
- Baseline characteristics have been reported previously and were similar between the groups examined.<sup>2</sup>
- PASI responses were maintained or improved throughout the OLE period to Week 144; 89.8% of patients in the Continuous BKZ group, and 87.0% of patients who switched to BKZ from SEC, achieved PASI  $\leq 2$  at Week 144. Similarly, 68.8% of patients in the Continuous BKZ group, and 69.1% of patients in the SEC/BKZ group, achieved PASI 100 at Week 144 (**Figure 2**).
- Incidence rates of serious TEAEs and discontinuations were low (**Table 1**).
- Four deaths occurred; two from coronavirus infection in high-risk (obesity and diabetes mellitus) unvaccinated patients. None of the deaths were assessed as treatment-related.
- The most frequent fungal infection was oral candidiasis. Most oral candidiasis cases were mild or moderate (98.3%); none were serious, and three led to discontinuation.

### Conclusions

Clinical improvements achieved after one year of bimekizumab treatment were maintained for up to two further years, throughout the OLE (Weeks 48–144), among patients who entered this period.

Outcomes improved and were durable to Week 144 in secukinumab-treated patients who switched to bimekizumab upon entering the OLE.

Adverse events reported over the second and third year of treatment were consistent with the safety profile of bimekizumab-treated groups reported previously over one and two years of treatment.<sup>1,2,4</sup>



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Consultancy is interpretation of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: and the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication of data: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication of data: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication of data: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication of data: BS, LP, AB, DT, BE, AW, VV, DD, FS, SW, JFM, CP; Final approval of the publication of the publicati See ker's honoraria from and/or participated in trials sponsored by AbbVie, Almirall, Amgen, Basalta, Biogen, Boehringer Ingelheim, Celgene, Eli Lilly, Gebro, Janssen, JS BIOCAD, LEO Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MSD, Mylan, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, and UCB Pharma, Merck-Serono, Markev, Sanofi Genzyme, and UCB Pharma, Merck-Serono, MS Ex Stein Biorester Series Ser trinical study investigator and/or consultant, and UCB Pharma, Bristol Myers Squibb, Celltrion, Eli Lilly, Evelo, Evommune, Galderma, Incyte, Janssen, LEO Pharma, Merck, Novartis, Pfizer, Regeneron, Sun Pharma, Merck, Novartis, Pfizer, Regeneron, Sun Pharma, and UCB Pharma, Incyte, Janssen, LEO Pharma, Janssen, LEO Pharma, Incyte, Janssen, LEO Pharma, Incyte, Janssen, LEO Pharma, Janssen, Incyte, Janssen, Leo Pharma, Incyte, Janssen, Cilag, Kyowa Kirin, Leo Pharma, Incyte, Janssen, Cilag, Kyowa Kirin, Leo Pharma, Incyte, Janssen, Leo Pharma, Incyte, Janssen, Cilag, Kyowa Kirin, Leo Ph tranter and Vanda; consultant, and Vanda; consultant, and Vanda; consultant, and Vanda; consultant, and Verrica. 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E Consulting fees and/or investigator for AbbVie, Amgen, Biogen, Bristol Myers Squibb, Derma, Pfizer, Novartis, Regeneron, and UCB Pharma, We would like to thank the patients and their teams who contributed to this study was funded by UCB Pharma. We would like to thank the patients and their teams who contributed to this study. The authors acknowledge and/or grants from AbbVie, Almirall, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly, GSK, Janssen Cilag, LEO Pharma. We would like to this study was funded by UCB Pharma. We would like to thank the patients and their teams who contributed to this study. The authors acknowledge and/or grants from AbbVie, Almirall, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly, GSK, Janssen Cilag, LEO Pharma. We would like to thank the patients. This study was funded by UCB Pharma. We would like to thank the patients and their teams who contributed to this study. The authors acknowledge and/or grants from AbbVie, Almirall, Amgen, Biogen, Bio Radhika Bhatia, PhD, UCB Pharma, Slough, UK, for publication coordination, and Phoebe Kennedy, MSc, Costello Medical, Bristol, UK, for medical writing support and editorial assistance. All costs associated with development of this presentation were funded by UCB Pharma.

# Bimekizumab Maintenance of Response and Safety in Patients with Moderate to Severe Plaque Psoriasis: Results from the Open-label Extension Period (Weeks 48–144) of the BE RADIANT Phase 3b Trial

	Total Exposure: 1,244 PY
	EAIR per 100 PY (95% CI)
	126.5 (116.2, 137.5)
   	5.4 (4.1, 6.9)
   	2.7 (1.8, 3.8)
   	5.1 (3.9, 6.5)
	0.3 (0.1, 0.8)
	8.4 (6.8, 10.3)
	7.1 (5.6, 8.8)
	5.1 (3.9, 6.5)
1   	
	1.4 (0.8, 2.2)
	16.0 (13.6, 18.6)
vel disease	0.2 (0.0, 0.6)
	0.2 (0.0, 0.6)
	0.9 (0.4, 1.6)
	0.1 (0.0, 0.5)
	0.5 (0.2, 1.1)
	3.7 (2.7, 4.9)
	1.5 (0.9, 2.3)
	0.2 (0.1, 0.7)
	1.4 (0.8, 2.2)
i	

-50 <b>PASI ≤ Lesbonder rate (%)</b> 50 - 25 25 0 - 0 - Week (0)					<b>Solution</b> 75 - 100         50 - 100       50 - 100         25 - 100       25 - 100         0 - 100       0 - 100         Week       0 - 100	Switch t BKZ		70.8	69.1 68.8 8 136 144
Week		48	96	144	Week		48	96	144
<b>OC</b> ; % (n/N)	Continuous BKZ	94.2 (310/329)	95.5 (294/308)	93.3 (264/283)	<b>OC</b> ; % (n/N)	Continuous BKZ	75.4 (248/329)	74.4 (229/308)	76.0 (215/283)
	SEC/BKZ	84.1 (264/314)	96.2 (275/286)	91.4 (245/268)		SEC/BKZ	53.2 (167/314)	81.8 (234/286)	76.1 (204/268)
	Continuous BKZ	94.3	93.2	89.8		<b>Continuous BKZ</b>	74.9	70.8	68.8
mNRI; <sup>a</sup> %	SEC/BKZ	83.9	93.4	87.0	mNRI;ª %	SEC/BKZ	52.8	76.7	69.1
	Continuous BKZ	92.3	87.5	78.6	<b>NRI</b> ; %	Continuous BKZ	73.8	68.2	64.0
NRI; % —	SEC/BKZ	83.0	86.5	77.0		SEC/BKZ	52.5	73.6	64.2

Data are presented for patients who entered the OLE only, during which all patients received BKZ. [a] Missing data were imputed using mNRI: patients who discontinued study treatment due to lack of efficacy or adverse events deemed treatment-related by investigators were considered non-responders at subsequent timepoints

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# B) PASI 100 (mNRI<sup>a</sup>) ------ SEC/BKZ (N=318) - - - Continuous BK7 (N=336) Start of OLE

who entered the OLE after receiving BKZ or SEC in the double-blind period (mNRI <sup>a</sup> )
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**Poster ID:** 1441 Link expiratio November 29, 2