Bimekizumab efficacy and safety over 48 weeks in US and Canadian patients with psoriasis who had a treatment interruption after 3 years of treatment: Results from BE RADIANT

Synopsis

• Patients with psoriasis treated with biologics frequently experience treatment interruptions;¹² therefore, it is important to assess recovery of response upon retreatment.

Objective

To report efficacy and safety of bimekizumab (BKZ) in patients from the US and Canada treated for 1 year following a treatment interruption during the BE RADIANT study.

Methods

- After 144 weeks of BE RADIANT (3 years; 48-week double-blinded period plus a 96-week open-label extension period [OLE]),³ patients from the US and Canada could enter a second OLE (OLE2; 48 weeks); most had a treatment interruption before entering OLE2 (Figure 1).
- Patients scoring ≤2 in the Investigator's Global Assessment (IGA) at OLE2 baseline received BKZ every 8 weeks (Q8W), and those scoring IGA ≥3 received BKZ Q4W for 16 weeks then Q8W thereafter (Q4W/Q8W).
- The following efficacy outcomes are reported through OLE2, in patients who had a treatment interruption, using non-responder imputation (NRI) and observed cases (OC):
- ≥90%/100% improvement from baseline in Psoriasis Area and Severity Index (PASI 90/100)
- IGA 0/1 (clear or almost clear);
- Dermatology Life Quality Index (DLQI) 0/1 (no effect of skin disease on quality of life).
- Following a treatment interruption, the proportions of patients who had treatmentemergent adverse events (TEAEs) during OLE2 are reported, regardless of dosing regimen (BKZ Total).
- Rates of TEAEs are also reported as exposure-adjusted incidence rates per 100 patient-years.

Results

Efficacy

- Baseline characteristics at the start of BE RADIANT are shown in Table 1.
- 66 patients had an IGA score of ≤2 at OLE2 entry and received BKZ Q8W, after a median (range) treatment interruption of 23 (6-51) weeks.
- Among these patients, PASI 100 rates were high at Week 144 (74.2%; last visit before treatment interruption), decreased to OLE2 baseline (27.3%; after treatment interruption), regained to OLE2 Week 12 (69.7%; 3 months), and were maintained to OLE2 Week 48 (71.2%; Year 1; Figure 2A).
- PASI 90, IGA 0/1, and DLQI 0/1 rates followed a similar trend (Figures 2B-D).
- 59 patients had an IGA score ≥3 at OLE2 entry and received BKZ Q4W/Q8W, after
- a median treatment interruption of 28 (7-49) weeks. - Among these patients, PASI 100 rates were high at Week 144 (64.4%),
- decreased to OLE2 baseline (0%), regained after 3 months (64.4%), and were maintained to Year 1 (54.2%; Figure 2A).
- PASI 90, IGA 0/1, and DLQI 0/1 rates followed a similar trend (Figures 2B-D).

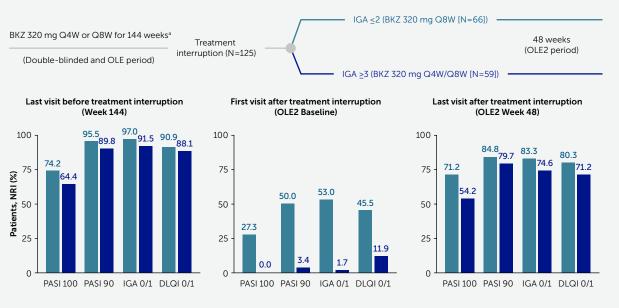
Safety

- The proportions of patients who reported TEAEs and TEAEs of interest are shown in Table 2.
- One death occurred in OLE2 (pneumonia on a background of metastatic cancer; patient had underlying risk factors).
- The most common TEAEs were coronavirus infection (OLE2 started during the global COVID-19 pandemic), oral candidiasis, and nasopharyngitis.
- Oral candidiasis events occurred in nine (7.2%) patients. No cases of oral candidiasis were serious, severe, or led to discontinuation.

Conclusions

After bimekizumab retreatment following a treatment interruption, efficacy responses were regained and maintained through 1 year; bimekizumab was well-tolerated with no unexpected safety findings.

Summary

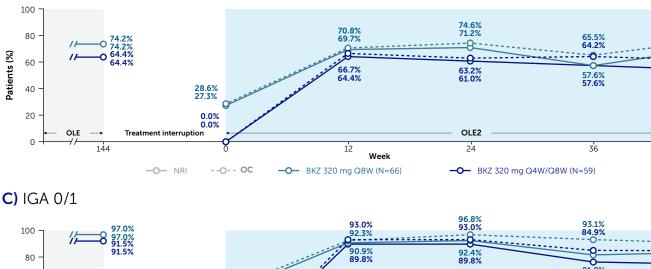


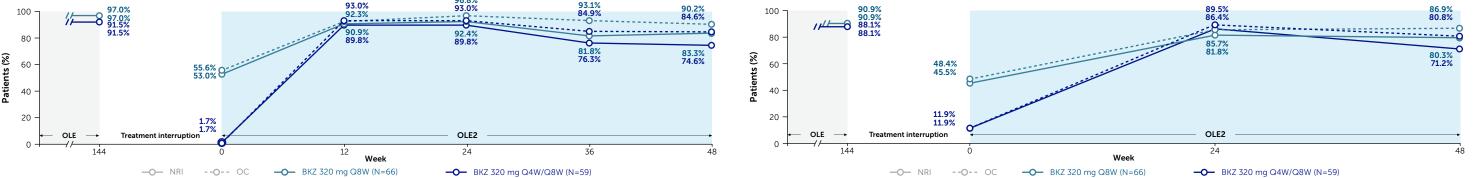
Efficacy responses (as measured by PASI, IGA, and DLQI) were regained and maintained through 1 year of bimekizumat retreatment following a treatment interruption, with no unexpected safety findings.

[a] Includes patients who received SEC 300 mg for the first 48 weeks

Figure 2 Efficacy responses before and after treatment interruption in OLE2 (NRI, OC)

A) PASI 100





wived BK7 Q4W for 16 weeks then Q8W thereafter. Data are reported using non-responder imputation (NRI) and observed case (QC

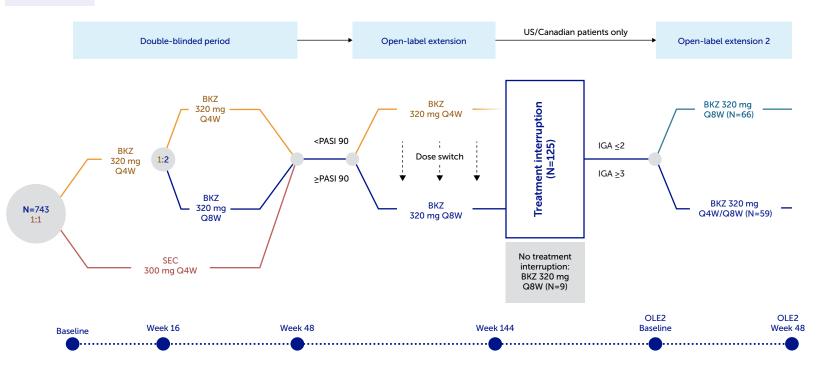
ALT: alanine aminotransferase; AST: aspartate aminotransferase; BKZ: bimekizumab; BMI: body mass index; BSA: body surface area; CI: confidence interval; RG: index; aspartate aminotransferase; BKZ: bimekizumab; BMI: body mass index; BSA: body surface area; CI: confidence interval; RG: index; RG: aspartate aminotransferase; BKZ: bimekizumab; BMI: body mass index; BSA: body surface area; CI: confidence interval; RG: conf PY: patient-years; Q4W: every 4 weeks; Q8W: every 8 weeks; SD: standard deviation; SEC: secukinumab; TEAE: treatment-emergent adverse event; ULN: upper limit of normal.

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Author Contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Enaltiago of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Drafting of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; Final approval of the publication, or reviewing it critically for important intellectual content: **ML**, **KP**, **BE**, **ML**, **PR**, **BS**, **AA**, **JMLP**, **MK**, **DD**, **MW**, **RV**; **Final**, **B** RV: Grants/research support from AbbVie, Argeine, Ceipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Movartis, Pfizer, and UCB; speakers bureau/honoraria from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Pfizer, and UCB; speakers bureau/honoraria from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipher, Eli Lilly and Company, Galderma, GSK, Janssen, LEO Pharma, Merck, Pfizer, and UCB; consulting fees from AbbVie, Actelion, Amgen, Pfizer, and UCB. 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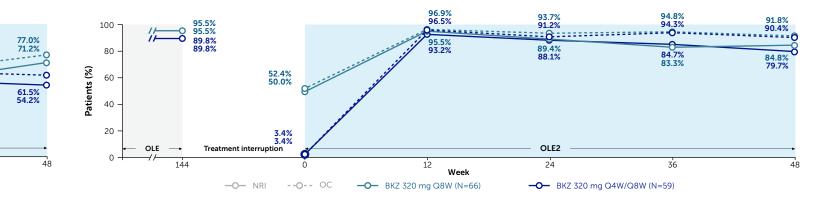
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Figure 1 BE RADIANT study design



B) PASI 90



D) DLQI 0/1

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Table 1Baseline characteristics

Baseline characteristics	BKZ 320 mg Q8W N=66	BKZ 320 mg Q4W/Q8W N=59
Age (years), mean <u>+</u> SD	49.7 <u>+</u> 15.0	49.8 ± 14.5
Sex, male, n (%)	41 (62.1)	45 (76.3)
Racial group, white, n (%)	58 (87.9)	51 (86.4)
Weight (kg), mean <u>+</u> SD	88.2 ± 17.9	102.2 ± 26.7
BMI (kg/m²), mean ± SD	31.1 ± 6.3	33.8 ± 7.3
Duration of psoriasis (years), mean \pm SD	16.1 <u>+</u> 12.3	20.3 ± 15.5
PASI, mean <u>+</u> SD	20.5 ± 5.8	18.6 ± 6.4
BSA (%) , mean <u>+</u> SD	23.7 ± 14.1	21.6 ± 13.3
IGA, n (%)		
3: moderate	37 (56.1)	36 (61.0)
4: severe	29 (43.9)	23 (39.0)
DLQI total , mean <u>+</u> SD	10.7 ± 6.9	8.8 ± 6.0
Prior systemic therapy, n (%)	45 (68.2)	36 (61.0)
Prior biologic therapy, n (%)	24 (36.4)	25 (42.4)

These characteristics were recorded at baseline of the double-blinded period of the BE RADIANT study. Data are presented for patients who scored IGA ≤2 at OLE2 baseline and received BKZ Q8W; and for patients who scored IGA ≥3 at OLE2 and received BKZ Q4W for 16 weeks then Q8W thereaf

Table 2Rates of TEAEs in OLE2

Overview of TEAEs	BKZ Total (N=125)	
	n (%)	EAIR/100 PY (95% CI)
TEAE summary		
Any TEAE	71 (56.8)	83.2 (65.0, 104.9)
Serious TEAEs	5 (4.0)	3.7 (1.2, 8.6)
Discontinuations due to TEAEs	2 (1.6)	1.5 (0.2, 5.3)
Severe TEAEs	2 (1.6)	1.5 (0.2, 5.3)
TEAEs leading to death	1 (0.8)	0.7 (0.0, 4.1)
Most common TEAEs		
Coronavirus infection	18 (14.4)	14.3 (8.5, 22.6)
Oral candidiasis	9 (7.2)	6.8 (3.1, 13.0)
Nasopharyngitis	4 (3.2)	2.9 (0.8, 7.5)
TEAEs of interest		
Serious infections	2 (1.6)	1.5 (0.2, 5.3)
Active tuberculosis	0	0
Fungal infections	12 (9.6)	9.3 (4.8, 16.3)
Candida infections	9 (7.2)	6.8 (3.1, 13.0)
Oral candidiasis	9 (7.2)	6.8 (3.1, 13.0)
Definite or probable adjudicated IBD	0	0
Adjudicated suicidal ideation and behavior	0	0
Adjudicated major adverse cardiac events	0	0
Malignanciesª	4 (3.2)	3.0 (0.8, 7.6)
Any malignancies (excluding NMSC)	2 (1.6)	1.5 (0.2, 5.3)
Serious hypersensitivity reactions	0	0
Injection site reactions	0	0
Hepatic events ^b	5 (4.0)	3.7 (1.2, 8.6)
ALT or AST >3x ULN	2 (1.6)	1.5 (0.2, 5.3)
ALT or AST >5x ULN	1 (0.8)	0.7 (0.0, 4.1)

OLE2 safety data are presented for all patients who had a treatment interruption and entered OLE2 (BKZ Total). [a] Of the four malignancy events, two were basal cell carcinomas, one was lentigo maligna, and one was a fatal metastatic neop in the liver (as described in the Results text); [b] The majority of reported hepatic TEAEs were elevated liver enzymes; all





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