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A) ≥1 PsA risk factor

→ BKZ Total (N=266) → BKZ Q4W/Q8W (n=139)

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## **Objectives**

To evaluate psoriatic arthritis (PsA) symptom development in bimekizumab (BKZ)-treated patients from BE RADIANT with psoriasis only, who have risk factors at baseline for disease progression to PsA, using the Psoriatic Arthritis Screening and Evaluation (PASE) questionnaire.

To assess the 4-year incidence of PsA treatment-emergent adverse events (TEAEs) among BKZ-treated patients with psoriasis only, who have risk factors at baseline for disease progression to PsA, from three phase 3/3b trials and two open-label extension (OLE) trials.

#### Introduction

- For patients with psoriasis, the incidence of PsA has been reported to range from 0.23 to 7.4/100 patient-years (PY), depending on study population and follow-up duration. Up to a third of patients with psoriasis develop PsA, highlighting the importance of early detection and intervention.
- The PASE questionnaire aids early detection of PsA,<sup>3</sup> and early intervention, to delay or halt disease progression.
- BKZ inhibits both interleukin (IL)-17A and IL-17F,<sup>4</sup> and has demonstrated superior efficacy versus comparators,<sup>5-8</sup> as well as long-term efficacy,<sup>9,10</sup> in the treatment of moderate to severe plaque psoriasis.
- BKZ has also shown a high level of efficacy in the short and long term for patients with active PsA. 11,12

#### Methods

- Patients with moderate to severe plaque psoriasis only (no PsA) at baseline from the BE SURE, BE VIVID, and BE READY phase 3 trials,<sup>5–7</sup> their OLE BE BRIGHT,<sup>9</sup> and BE RADIANT,<sup>8</sup> were analysed by number of risk factors at baseline.
- Patients with presence of PsA at baseline, defined as PASE ≥47³ and/or a reported medical history of PsA, were excluded.
- PsA risk factors, based on availability of data, were Psoriasis Area and Severity Index (PASI)  $\geq$ 12, type 2 diabetes mellitus (based on reported medical history), body mass index (BMI)  $\geq$ 30 kg/m², scalp Investigator's Global Assessment >0, and modified Nail Psoriasis Severity Index (mNAPSI)  $>0.^{2,14}$
- The proportions of patients maintaining PASE <47 (no PsA symptoms)<sup>3</sup> over 3 years are reported from the BE RADIANT phase 3b trial (data only available from this study),<sup>8</sup> using modified non-responder imputation.
  - Included patients were randomised to receive BKZ 320 mg every 4 weeks (Q4W) to Week 16, then received BKZ Q4W or Q8W into the OLE (BKZ Total); the subset who received BKZ Q4W to Week 16 then Q8W thereafter were also analysed (BKZ Q4W/Q8W; the approved dosing regimen for the majority of patients with psoriasis).<sup>13</sup>
  - Patients discontinuing due to lack of efficacy or treatment-related AEs were considered non-responders; multiple imputation was used for other missing data.
- In patients with psoriasis only at baseline, exposure-adjusted incidence rates (EAIRs) of reported PsA TEAEs are presented over 4 years, and by year, across all included trials.<sup>5–9</sup>
  - TEAE data are reported for patients who received ≥1 BKZ dose and the BKZ Q4W/Q8W subgroup.

### Results

- Some numerical differences in baseline characteristics were seen between risk factor subgroups, with a trend of higher disease severity in groups with more PsA risk factors.
  - In the ≥4 risk factors subgroup, patients typically had higher BMI, and greater proportions had mNAPSI >0 and arthralgia.

# PsA symptoms (BE RADIANT)

- Among BKZ Total patients with psoriasis only at baseline in BE RADIANT,
   266 had ≥1 baseline PsA risk factor, 260 had ≥2, 183 had ≥3, and 68 had ≥4.
- For patients with ≥1, ≥2, ≥3, and ≥4 baseline risk factors, the vast
  majority maintained absence of PsA symptoms (PASE <47) through 3 years
  (96.0–98.1%; Figure 1A–D).</li>
  - Results were similar in the BKZ Q4W/Q8W subgroup (Figure 1A-D).

### PsA TEAEs (pooled trials)

- Among patients with psoriasis only at baseline who received ≥1 BKZ dose, 1,630 had ≥1 baseline PsA risk factor, 1,599 had ≥2, 1,144 had ≥3, and 417 had ≥4.
- In those with  $\geq 1$ ,  $\geq 2$ ,  $\geq 3$ , and  $\geq 4$  baseline risk factors, EAIRs of PsA TEAEs were low (0.4, 0.4, 0.5, 0.9/100 PY, respectively) through 4 years (**Table 1**).
- EAIRs were also consistently low during each year of treatment (Table 1)
   4-year data were similar in the subset of patients who received BK7
- 4-year data were similar in the subset of patients who received BKZ Q4W/Q8W (Table 1).

## Conclusions

In BE RADIANT, the vast majority of bimekizumab-treated patients did not report psoriatic arthritis symptoms over 3 years, independently of number of risk factors at baseline for progression to psoriatic arthritis. A low incidence rate of psoriatic arthritis treatment-emergent adverse events were reported over 4 years from five trials, regardless of the number of risk factors at baseline.

These findings support long-term bimekizumab use to manage psoriasis and reduce the risk of progression to psoriatic arthritis, as well as demonstrating the importance of early detection and intervention.

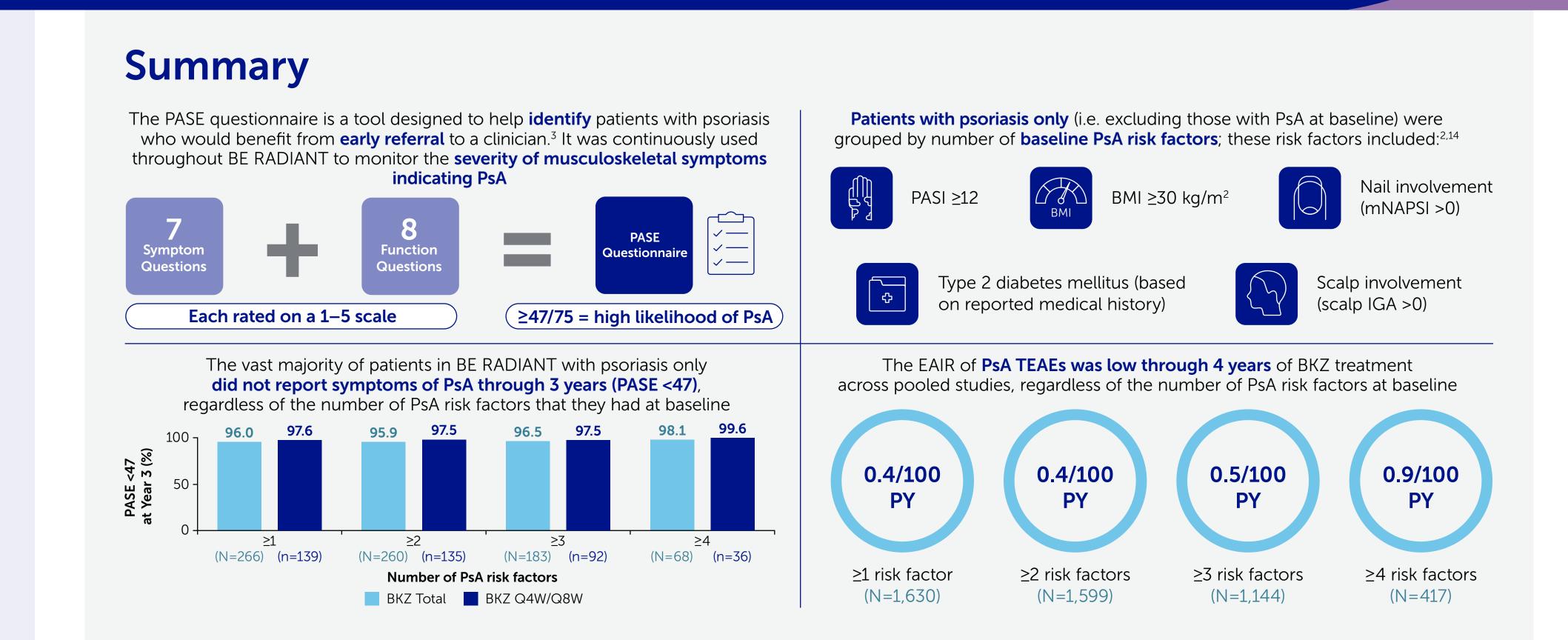


Figure 1 PASE <47 over 3 years in patients from BE RADIANT with psoriasis only at baseline and  $\geq 1$ ,  $\geq 2$ ,  $\geq 3$ , or  $\geq 4$  PsA risk factors at baseline (mNRI)

**B)** ≥2 PsA risk factors

— BKZ Total (N=260) — BKZ Q4W/Q8W (n=135)

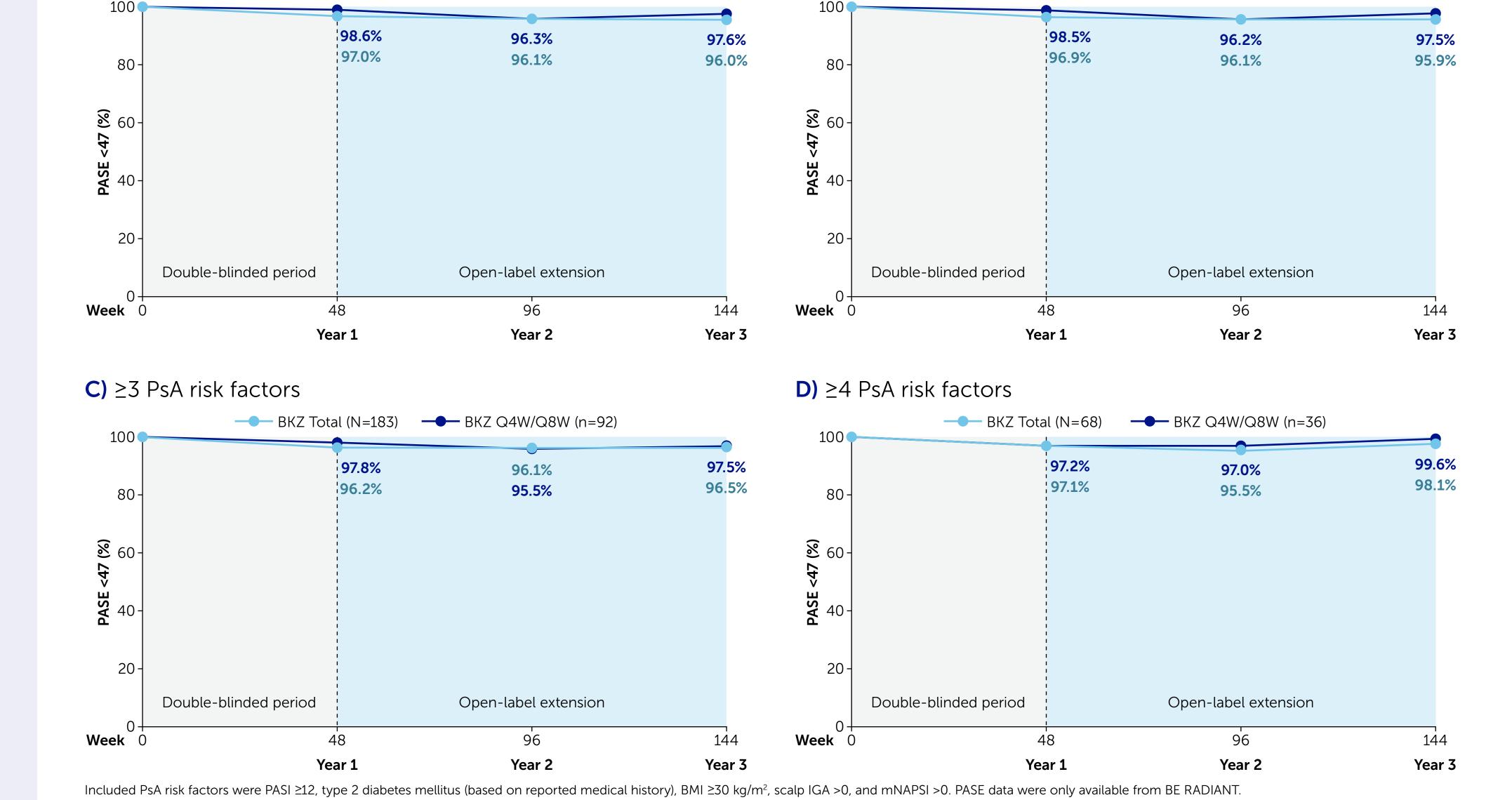


Table 1 EAIRs of PsA TEAEs in patients from pooled trials with psoriasis only at baseline and  $\geq 1$ ,  $\geq 2$ ,  $\geq 3$ , or  $\geq 4$  PsA risk factors at baseline

	Year 1 (>0-52 weeks of BKZ exposure)  BKZ Total	Year 2 (>52–104 weeks of BKZ exposure) BKZ Total	Year 3 (>104–156 weeks of BKZ exposure) BKZ Total	Year 4 (>156–208 weeks of BKZ exposure) BKZ Total	Overall through 4 years of BKZ exposure	
n (%) EAIR (95% CI)					BKZ Total	BKZ Q4W/Q8W
≥1 PsA Risk Factor	N=1,630	N=1,501	N=1,360	N=1,006	N=1,630	n=297
Any PsA TEAE	2 (0.1)	6 (0.4)	7 (0.5)	4 (0.4)	19 (1.2)	4 (1.3)
	0.1 (0.0, 0.5)	0.4 (0.2, 0.9)	0.6 (0.2, 1.3)	0.6 (0.2, 1.6)	0.4 (0.2, 0.6)	0.4 (0.1, 1.0)
≥2 PsA Risk Factors	N=1,599	N=1,474	N=1,336	N=990	N=1,599	n=292
Any PsA TEAE	2 (0.1)	6 (0.4)	7 (0.5)	4 (0.4)	19 (1.2)	4 (1.4)
	0.1 (0.0, 0.5)	0.4 (0.2, 0.9)	0.6 (0.2, 1.3)	0.6 (0.2, 1.7)	0.4 (0.2, 0.6)	0.4 (0.1, 1.0)
≥3 PsA Risk Factors	N=1,144	N=1,056	N=957	N=722	N=1,144	n=209
Any PsA TEAE	2 (0.2)	6 (0.6)	5 (0.5)	4 (0.6)	17 (1.5)	4 (1.9)
	0.2 (0.0, 0.7)	0.6 (0.2, 1,3)	0.6 (0.2, 1.4)	0.9 (0.2, 2.3)	0.5 (0.3, 0.8)	0.6 (0.2, 1.5)
≥4 PsA Risk Factors	N=417	N=386	N=355	N=265	N=417	n=76
Any PsA TEAE	2 (0.5)	4 (1.0)	4 (1.1)	1 (0.4)	11 (2.6)	3 (3.9)
	0.5 (0.1, 1.9)	1.1 (0.3, 2.8)	1.3 (0.4, 3.4)	0.6 (0.0, 3.4)	0.9 (0.4, 1.6)	1.2 (0.2, 3.5)

Pooled trials included BE SURE,<sup>5</sup> BE VIVID,<sup>6</sup> BE READY,<sup>7</sup> their OLE BE BRIGHT,<sup>9</sup> and BE RADIANT.<sup>8</sup> All reported PsA TEAEs were reported under the MedDRA preferred term 'psoriatic arthropathy's

**BKZ:** bimekizumab; **BMI:** body mass index; **CI:** confidence interval; **EAIR:** exposure-adjusted incidence rate; **IGA:** Investigator's Global Assessment; **IL:** interleukin; **mNAPSI:** modified non-responder imputation; **OLE:** open-label extension; **PASI:** Psoriasis Area and Severity Index; **PASE:** Psoriatic Arthritis Screening and Evaluation; **PSA:** psoriatic arthritis; **PY:** patient-year; **Q4W:** every 8 weeks; **TEAE:** treatment-emergent adverse event.

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