

Bimekizumab 3-year efficacy in patients with psoriasis and risk factors for progression to psoriatic arthritis or screening positive for psoriatic arthritis: Long-term results from BE BRIGHT and BE RADIANT

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OBJECTIVES

- To evaluate bimekizumab (BKZ) response rates in patients with psoriasis and concurrent risk factors for progression to psoriatic arthritis (PsA), or screening PsA-positive, and compare them with the overall BKZ-treated population.
- To further explore these response rates in patients without PsA at baseline, who have risk factors for progression to PsA.

Background

- PsA affects up to one-third of patients with psoriasis;¹ early identification and intervention for patients at risk may help reduce progression.
- Severe psoriasis, nail involvement, scalp involvement, and obesity are recognized long-term predictors of progression of psoriasis to PsA.¹⁻³
- Understanding the impact of BKZ, which selectively inhibits interleukin (IL)-17F and IL-17A,⁴ on patients with these risk factors, or those screening PsA-positive, is important to potentially prevent progression.¹

Methods

- Data were pooled from BE VIVID, BE SURE, BE READY, the first 96 weeks of their open-label extension (OLE) BE BRIGHT, and BE RADIANT (48-week double-blinded period, plus 96-week OLE).⁵⁻⁹
- Achievement of **complete skin clearance** (PASI 100) was evaluated through **Year 3** using modified non-responder imputation (mNRI).

Subgroups analyzed



Patients screening PsA-positive (PASE ≥ 47)^a



Patients with nail involvement (mNAPSI > 10)

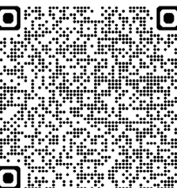


Patients with ≥ 3 PsA risk factors (out of mNAPSI > 10 , scalp IGA ≥ 3 , absolute PASI ≥ 20 , BMI > 30 kg/m²)¹⁻³

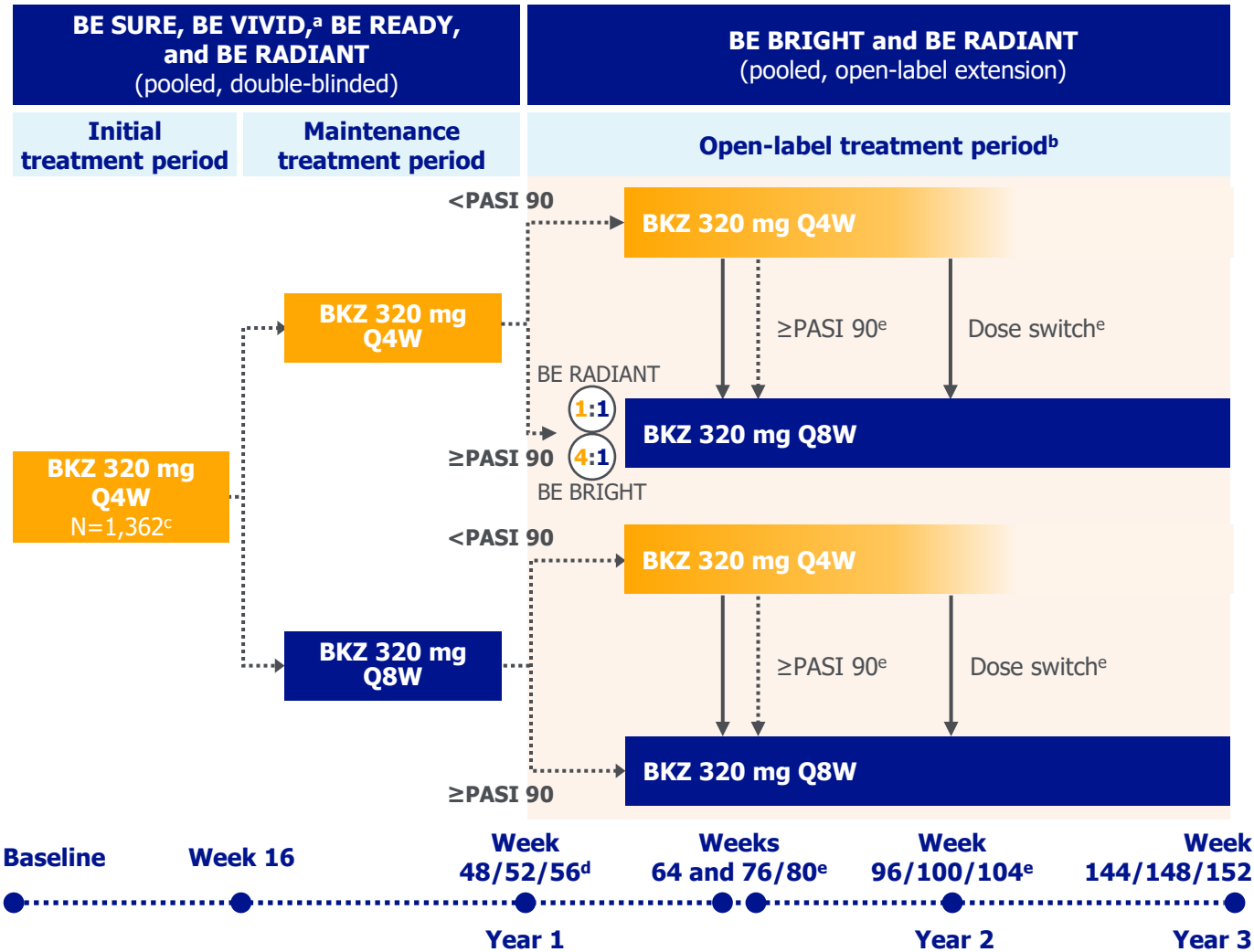
[a] The PASE questionnaire is a validated self-administered PsA screening tool designed to help dermatologists identify patients with psoriasis who would benefit from a prompt referral to a rheumatologist; a score of ≥ 47 indicates a high likelihood of PsA.^{10,11} **1.** Zabotti A et al. Ann Rheum Dis 2023;82:1162-70; **2.** Yan D et al. Dermatol Ther (Heidelb) 2018;8:593-604; **3.** Wilson FC et al. Arthritis Rheum 2009;61:233-39; **4.** Adams R et al. Front Immunol 2020;11:1894; **5.** Reich K et al. Lancet 2021;397:487-98 (NCT03370133); **6.** Warren RB et al. N Engl J Med 2021;385:130-41 (NCT03412747); **7.** Gordon KB et al. Lancet 2021;397:475-86 (NCT03410992); **8.** Strober B et al. Br J Dermatol 2023;188:749-59 (NCT03598790); **9.** Strober B et al. J Am Acad Dermatol 2023;89:486-95 (NCT03536884); **10.** Iragorri N et al. Rheumatology (Oxford) 2019;58:692-707; **11.** Husni ME et al. J Am Acad Dermatol 2007;57:581-7. BKZ: bimekizumab; BMI: body mass index; IGA: Investigator's Global Assessment; IL: interleukin; mNAPSI: modified Nail Psoriasis Severity Index; mNRI: modified non-responder imputation; OLE: open-label extension; PASE: Psoriatic Arthritis Screening and Evaluation; PASI: Psoriasis Area and Severity Index; PsA: psoriatic arthritis.

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Study Design



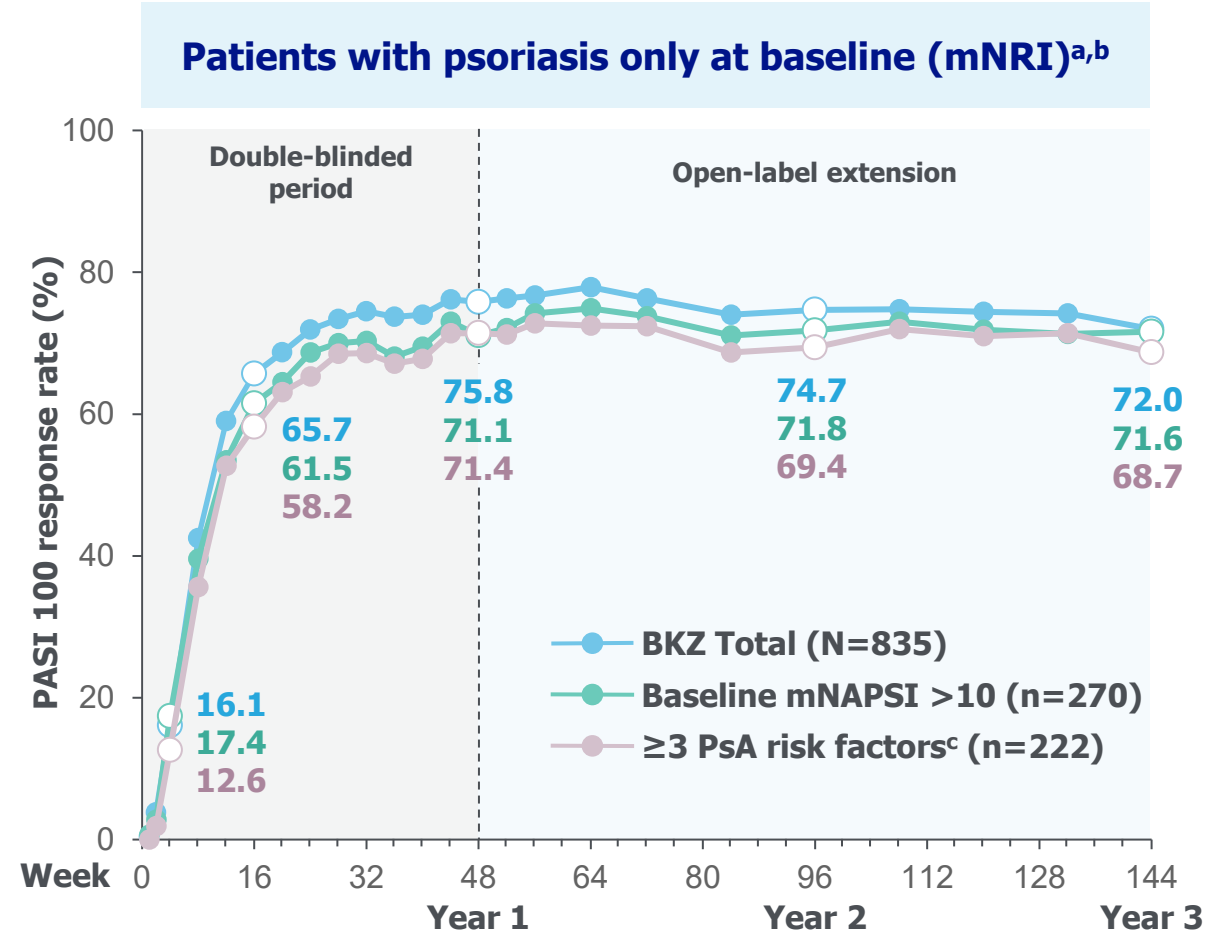
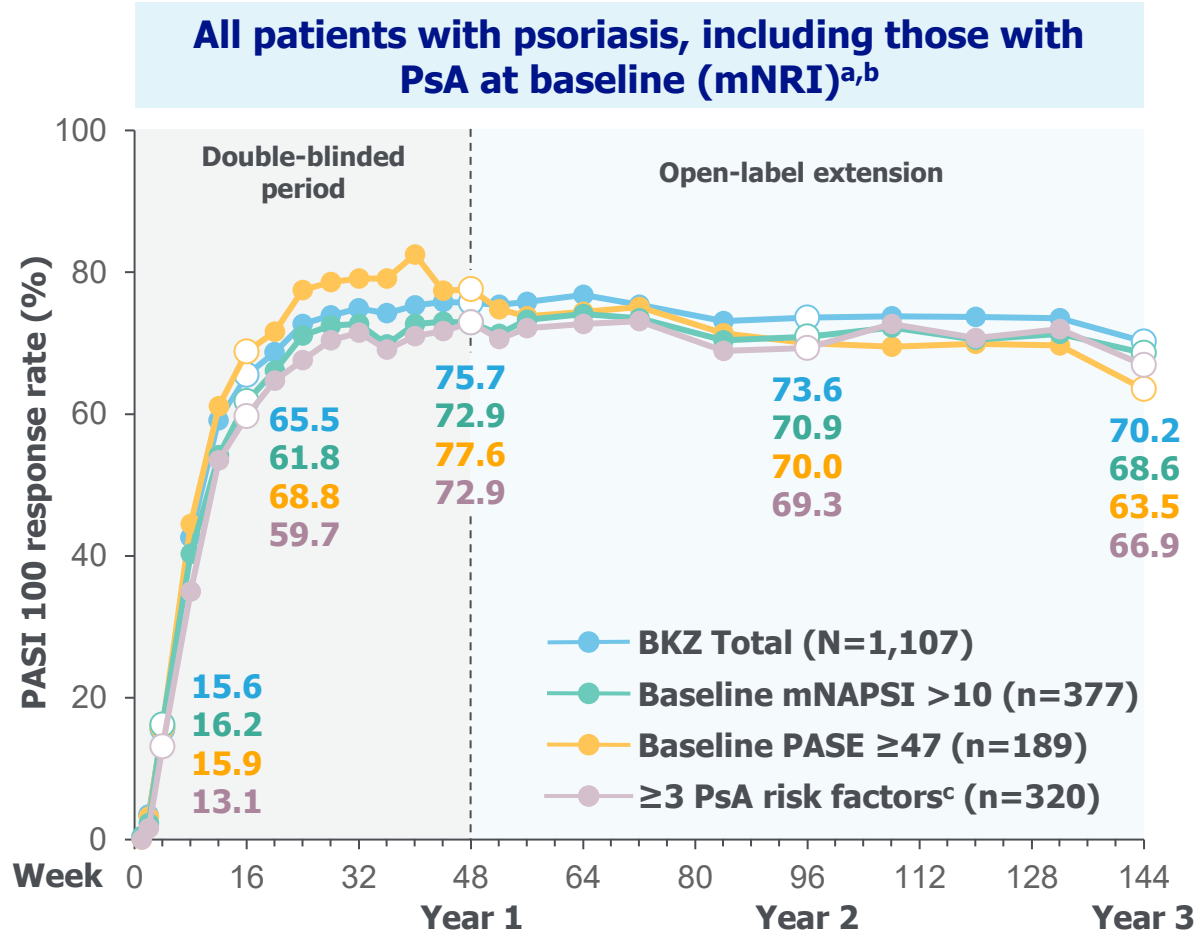
Baseline Characteristics

	BKZ Total N=1,107	BKZ Q4W/ Q8W N=374	BKZ Total with psoriasis only ^f N=835	BKZ Q4W/ Q8W with psoriasis only ^f N=297
Presence of PsA at baseline, n (%)^f	272 (24.6)	77 (20.6)	0 (0)	0 (0)
PASE \geq47, n (%)	189 (17.1)	53 (14.2)	0 (0)	0 (0)
mNAPSI >10, n (%)	377 (34.1)	129 (34.5)	270 (32.3)	98 (33.0)
Scalp IGA \geq3, n (%)	821 (74.2)	277 (74.1)	627 (75.1)	224 (75.4)
PASI \geq20, n (%)	466 (42.1)	143 (38.2)	344 (41.2)	108 (36.4)
BMI >30 kg/m², n (%)	493 (44.5)	151 (40.4)	355 (42.5)	117 (39.4)

- Of the patients initially randomized to BKZ at baseline, **1,107** continued BKZ throughout the maintenance period and into the OLE (**BKZ Total**; Q4W and Q8W doses pooled).
- Among these, **374** received BKZ Q4W to Week 16 followed by BKZ Q8W thereafter (the approved dosing regimen for most patients with psoriasis; **BKZ Q4W/Q8W**).¹
- The **BKZ Total** group contained **835** patients with psoriasis only at baseline; among these, **297** received **BKZ Q4W/Q8W**.

[a] BE VIVID did not include an option for Q8W dosing of BKZ during the maintenance period; **[b]** In BE RADIANT and BE BRIGHT, patients receiving BKZ 320 mg Q4W who achieved PASI 90 at the end of the maintenance treatment period were re-randomized 1:1 and 4:1, respectively, to BKZ 320 mg Q4W and BKZ 320 mg Q8W upon entering the open-label treatment period; **[c]** Only BKZ-randomized patients are included in this study design; BKZ-randomized patients who were re-randomized to placebo at Week 16 in BE READY (n=105) were not included in these analyses; **[d]** Different week numbers are presented due to different feeder study lengths; Week 48/52/56 refers to OLE Week 0 and corresponds to BE RADIANT/BE VIVID/BE SURE and BE READY, respectively; **[e]** In BE RADIANT, all patients switched to BKZ Q8W at Week 64 or the next scheduled clinic visit via protocol amendment; in BE BRIGHT, at Week 76/80 (OLE Week 24), patients achieving \geq PASI 90 could switch to Q8W at the investigator's discretion; all patients were re-assigned to BKZ Q8W at Week 100/104 (OLE Week 48) or the next scheduled visit via protocol amendment; **[f]** Baseline PsA was defined as PASE \geq 47 or a reported medical history of PsA. ¹ Food and Drug Administration, Bimekizumab Prescribing Information, 2023. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/761151s000lbl.pdf [Accessed January 2025]. BKZ: bimekizumab; BMI: body mass index; IGA: Investigator's Global Assessment; mNAPSI: modified Nail Psoriasis Severity Index; OLE: open-label extension; PASI: Psoriasis Area and Severity Index; PASI 90: \geq 90% improvement from baseline in PASI; PsA: psoriatic arthritis; Q4W: every 4 weeks; Q8W: every 8 weeks.

Achievement of Complete Skin Clearance Over 3 Years in BKZ Total Patients with Risk Factors for Progression to PsA or Screening PsA-Positive at Baseline



[a] Patients discontinuing treatment due to lack of efficacy or treatment-related adverse events were considered non-responders at subsequent timepoints; multiple imputation was used for all other missing data. Patients who entered the BE READY escape arm were considered as non-responders from the date of escape until the end of BE READY, after which they were considered in the same way as all other non-escape patients during the BE BRIGHT OLE;¹ **[b]** Baseline PsA was defined as PASE ≥47, or a reported medical history of PsA; **[c]** The sub-population of patients with ≥3 risk factors could have any combination of mNAPSI >10, scalp IGA ≥3, PASI ≥20, and BMI >30 kg/m² at baseline. **1.** Gordon KB et al. Lancet 2021;397:475–86 (NCT03410992).

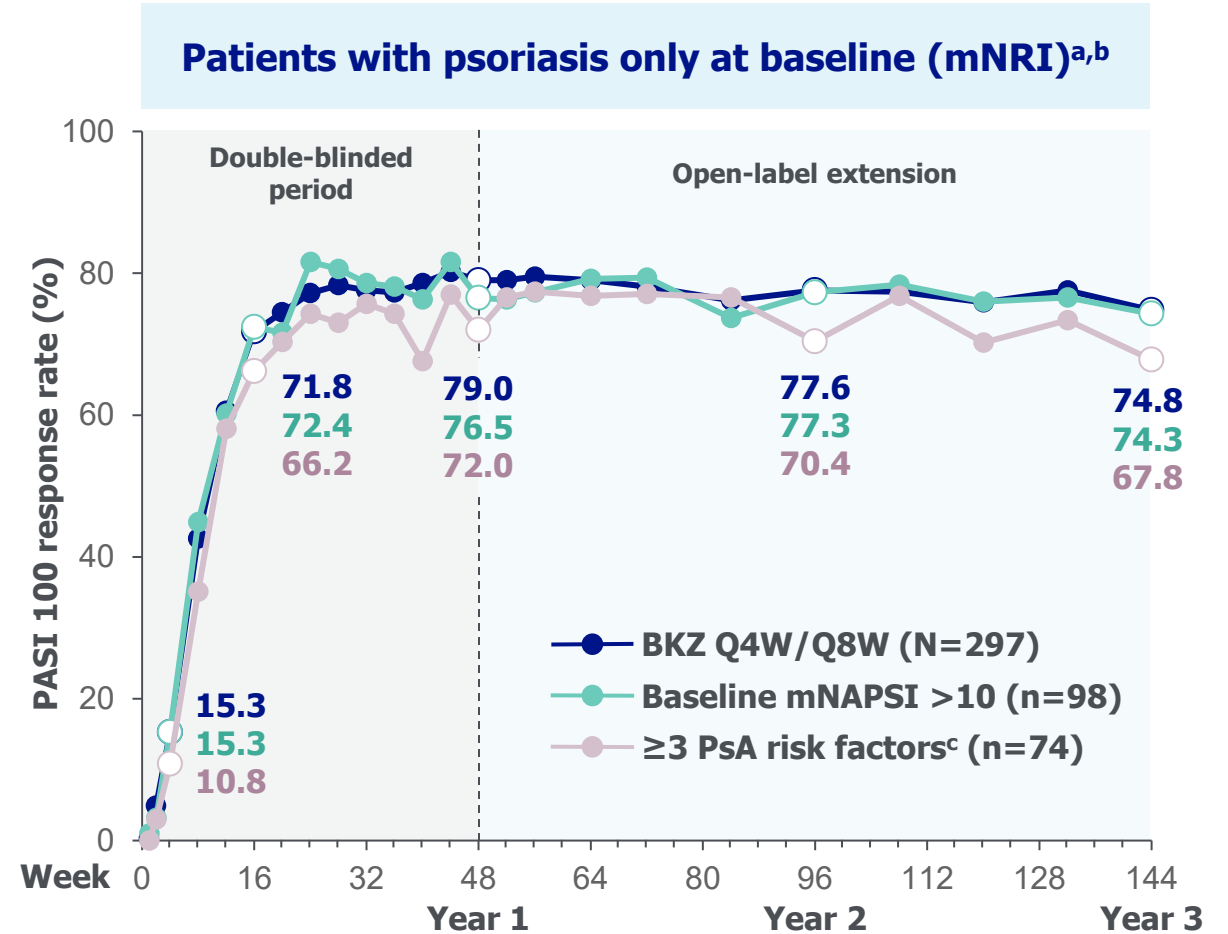
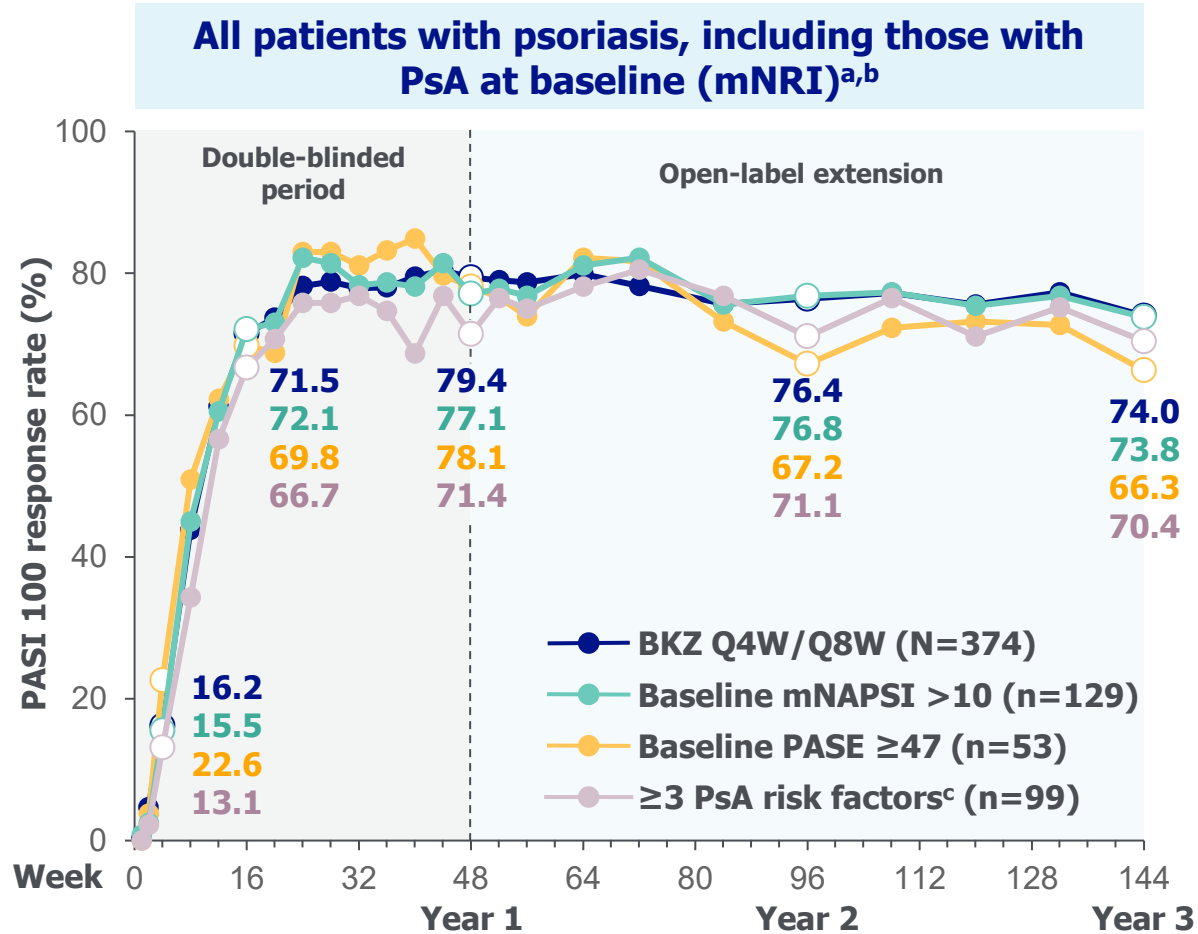
BKZ: bimekizumab; BMI: body mass index; IGA: Investigator's Global Assessment; mNAPSI: modified Nail Psoriasis Severity Index; mNRI: modified non-responder imputation; OLE: open-label extension; PASE: Psoriatic Arthritis Screening and Evaluation; PASI: Psoriasis Area and Severity Index; PASI 100: 100% improvement from baseline in PASI; PsA: psoriatic arthritis.

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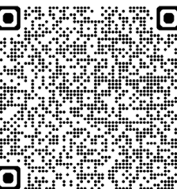
Achievement of Complete Skin Clearance Over 3 Years in BKZ Q4W/Q8W Patients with Risk Factors for Progression to PsA or Screening PsA-Positive at Baseline



[a] Patients discontinuing treatment due to lack of efficacy or treatment-related adverse events were considered non-responders at subsequent timepoints; multiple imputation was used for all other missing data. Patients who entered the BE READY escape arm were considered as non-responders from the date of escape until the end of BE READY, after which they were considered in the same way as all other non-escape patients during the BE BRIGHT OLE;¹ [b] Baseline PsA was defined as PASE ≥47, or a reported medical history of PsA; [c] The sub-population of patients with ≥3 risk factors could have any combination of mNAPSI >10, scalp IGA ≥3, PASI ≥20, and BMI >30 kg/m² at baseline. 1. Gordon KB et al. Lancet 2021;397:475–86 (NCT03410992). BKZ: bimekizumab; BMI: body mass index; IGA: Investigator’s Global Assessment; mNAPSI: modified Nail Psoriasis Severity Index; mNRI: modified non-responder imputation; OLE: open-label extension; PASE: Psoriatic Arthritis Screening and Evaluation; PASI: Psoriasis Area and Severity Index; PASI 100: 100% improvement from baseline in PASI; PsA: psoriatic arthritis; Q4W: every 4 weeks; Q8W: every 8 weeks.

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CONCLUSIONS



Complete skin clearance rates were high through Year 3 in bimekizumab-treated patients with psoriasis and risk factors for progression to psoriatic arthritis, or who screened positive for psoriatic arthritis, consistent with the overall bimekizumab-treated group.



Outcomes were similar when the analysis was restricted to patients with only psoriasis at baseline, and in the group who received bimekizumab Q4W/Q8W, the approved dosing regimen for the majority of patients with psoriasis.¹



Highly effective treatment of psoriasis with bimekizumab in patients at higher risk of psoriatic arthritis may help to prevent progression in the long term.

Author Contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: **RGL, JFM, DT, EN, BS, RBW, JMLP, SK, PG**; Drafting of the publication, or reviewing it critically for important intellectual content: **RGL, JFM, DT, EN, BS, RBW, JMLP, SK, PG**; Final approval of the publication: **RGL, JFM, DT, EN, BS, RBW, JMLP, SK, PG**.

Disclosures: **RGL:** Principal investigator for AbbVie, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly and Company, LEO Pharma, Merck, Novartis, Pfizer, and UCB; served on scientific advisory boards for AbbVie, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly and Company, LEO Pharma, Merck, Novartis, Pfizer, and UCB; provided lectures for AbbVie, Amgen, Celgene, Eli Lilly and Company, LEO Pharma, Merck, Novartis, and Pfizer. **JFM:** Consultant and/or investigator for AbbVie, Amgen, Biogen, Boehringer Ingelheim, Bristol Myers Squibb, Dermavant, Eli Lilly and Company, Incyte, Janssen, LEO Pharma, MoonLake Immunotherapeutics, Novartis, Pfizer, Sanofi-Regeneron, Sun Pharma, and UCB. **DT:** Investigator and/or consultant/advisor for AbbVie, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Celltrion, Eli Lilly and Company, Galderma, Johnson and Johnson, Kyowa Kirin, LEO Pharma, L'Oréal, New Bridge, Novartis, Pfizer, Regeneron, Samsung, Sanofi, Target-RWE, UCB, and Vichy; received grants from AbbVie, LEO Pharma, and Novartis. **EN:** AbbVie, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Daiichi Sankyo, Eli Lilly and Company, Janssen, Kyowa Kirin, LEO Pharma, Maruho, Novartis, Pfizer, Regeneron, Sanofi, Sun Pharma, Taiho, Torii, and UCB. **BS:** Consultant (honoraria) for AbbVie, Alumis, Amgen, Arcutis, Boehringer Ingelheim, Bristol Myers Squibb, Capital One, CorEvitas, Dermavant, Eli Lilly and Company, Janssen, LEO Pharma, Maruho, Meiji Seika Pharma, Novartis, Oruka, Pfizer, Protagonist, RAPT Therapeutics, Regeneron, Sanofi-Genzyme, Takeda, UCB, and Union Therapeutics; stock options from Connect Biopharma and Mindera Health; speaker for AbbVie, Arcutis, Dermavant, Eli Lilly and Company, Incyte, Janssen, Regeneron, and Sanofi-Genzyme; Scientific Co-Director (consulting fee) for CorEvitas Psoriasis Registry; investigator for CorEvitas Psoriasis Registry; Editor-in-chief (honorarium) Journal of Psoriasis and Psoriatic Arthritis. **RBW:** Consulting fees from AbbVie, Amgen, Arena, Astellas, Avillion, Biogen, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, DICE Therapeutics, Eli Lilly and Company, GSK, Janssen, LEO Pharma, Meiji Pharma, Novartis, Pfizer, RAPT Therapeutics, Sanofi, Sun Pharma, UCB, and Union Therapeutics; research grants to his institution from AbbVie, Amgen, Celgene, Eli Lilly and Company, Janssen, LEO Pharma, Novartis, Pfizer, and UCB; honoraria from AbbVie, Bristol Myers Squibb, Eli Lilly and Company, Galderma, Janssen, and Novartis. **JMLP:** Employee and shareholder of UCB. **SK:** Consultant for Aclipse Therapeutics, Aliada Therapeutics, Allay Therapeutics, Autobahn Therapeutics, Cognition Therapeutics, Colorado Prevention Center, Karuna Therapeutics, Kisbee Therapeutics, LB Pharmaceuticals, Nesos, Novartis, Onward, PharPoint Research, Summit Analytical, Tonix, Tornado Therapeutics, UCB, Whitsell Innovations, Worldwide Clinical Trials, and Zosano Pharma. **PG:** Consultant for AbbVie, Abiogen, Amgen, Celgene, Eli Lilly and Company, Janssen, LEO Pharma, Merck, MSD, Novartis, Otsuka, Pfizer, Pierre Fabre, Sanofi, and UCB.

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