

Bimekizumab Demonstrates Sustained Improvements in Pain, Morning Stiffness, and Fatigue in Axial Spondyloarthritis: 3-Year Results from Two Phase 3 Studies

Alice B. Gottlieb¹ Victoria Navarro-Compán,² Uta Kiltz,³ Philip J. Mease,⁴ Karl Gaffney,⁵ Atul Deodhar,⁶ Christine de la Loge,⁷ Sarah Kavanagh,⁸ Jason Coarse,⁸ Helena Marzo-Ortega⁹

¹Professor and Director of Clinical Trials, Department of Dermatology, UT Southwestern Medical Center, Dallas, TX, USA; ²Department of Rheumatology, La Paz University Hospital, IdiPaz, Madrid, Spain; ³Rheumazentrum Ruhrgebiet Herne, Ruhr-University Bochum, Germany; ⁴Department of Rheumatology, Providence-Swedish Medical Center and University of Washington, Seattle, WA, USA; ⁵Norfolk and Norwich University Hospital NHS Trust, Department of Rheumatology, Norfolk, UK; ⁶Division of Arthritis and Rheumatic Diseases, Oregon Health & Science University, Portland, OR, USA; ⁷UCB, Brussels, Belgium; ⁸UCB, Morrisville, NC, USA; ⁹NIHR Leeds Biomedical Research Centre, Leeds Teaching Hospitals NHS Trust and Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds, Leeds, UK.

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Objectives

- To present phase 3 data on **long-term impact** of bimekizumab (BKZ) treatment on **patient-reported symptoms** in axial spondyloarthritis (axSpA) such as **pain, morning stiffness, and fatigue**.
- To assess **changes over time** in these important symptoms, providing relevant insights for dermatologists managing patients with axial symptoms alongside other interleukin (IL)-17-mediated conditions such as psoriasis and hidradenitis suppurativa (HS).

Background

- axSpA causes disabling symptoms and can **co-occur** with other IL-17-mediated inflammatory diseases such as **psoriasis or HS**.¹⁻³
- BKZ, a monoclonal IgG1 antibody that selectively inhibits **IL-17F in addition to IL-17A**, has demonstrated efficacy in axSpA, psoriatic arthritis, plaque psoriasis, and HS.⁴⁻⁸
- Here, we assess the impact of **3 years** of BKZ treatment on **total back pain, morning stiffness, and fatigue in axSpA** using long-term **phase 3 data** from the BE MOBILE 1 & 2 trials and their combined open-label extension (OLE).

Summary

axSpA is a **chronic inflammatory disease** mainly affecting the sacroiliac joints and spine.¹

Understanding axSpA is important for dermatologists, as **patients with psoriasis or HS may present with axial symptoms** due to **co-occurrence** of axSpA with other **IL-17-mediated inflammatory diseases**.^{2,3}

In patients with axSpA in the phase 3 trials BE MOBILE 1 & 2 and their combined OLE, treatment with bimekizumab **over 3 years** led to **sustained improvements** from baseline in:

Total back pain
BASDAI Q2



Baseline 7.4

-4.4

Morning stiffness
Mean BASDAI Q5+6



Baseline 6.8

-4.3

Fatigue
BASDAI Q1



Baseline 6.5

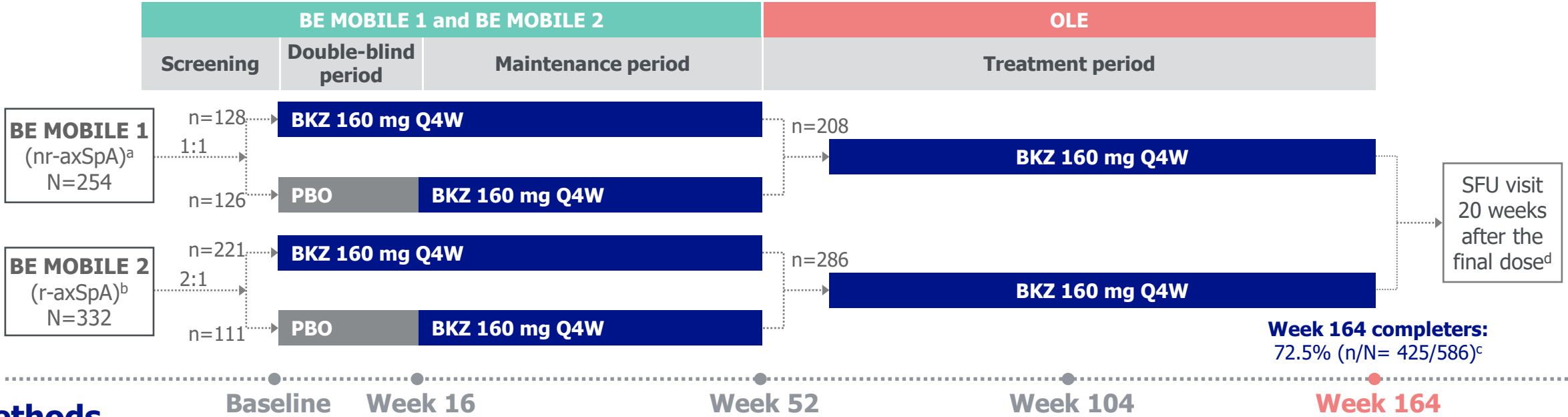
-3.5

1. Navarro-Compán V et al. Lancet 2025;405:159-72; 2. Navarro-Compán V et al. Front Immunol 2023;14:1191782; 3. Meier K et al. Ther Adv Musculoskelet Dis 2020;12:1759720X20975915; 4. van der Heijde D et al. Ann Rheum Dis 2023;82:515-26; 5. McInnes IB et al. Lancet 2023;401:25-37; 6. Merola JF et al. Lancet 2023;401:38-48; 7. Warren RB et al. Br J Dermatol 2025;193:44-55; 8. Kimball AB et al. Lancet 2024;403:2504-19. axSpA: axial spondyloarthritis; BASDAI: Bath Ankylosing Spondylitis Disease Activity Index; BKZ: bimekizumab; HS: hidradenitis suppurativa; Ig: immunoglobulin; IL: interleukin; OLE: open-label extension; Q: question; UK: United Kingdom; USA: United States of America.

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BE MOBILE 1, BE MOBILE 2, and OLE Study Design¹



Methods

- **BE MOBILE 1** (non-radiographic [nr]-axSpA; NCT03928704) and **BE MOBILE 2** (radiographic [r]-axSpA; NCT03928743) each comprised a 16-week, double-blind, placebo (PBO)-controlled period and a 36-week maintenance period.¹
 - All patients received subcutaneous **BKZ 160 mg every 4 weeks** (Q4W) from Week 16; eligible patients could enter the OLE (NCT04436640) at Week 52 and continue to receive BKZ to Week 164.
- Patient-reported outcome data for pain, morning stiffness, and fatigue are reported using Bath Ankylosing Spondylitis Disease Activity Index (**BASDAI Q2 (total back pain), mean of BASDAI Q5+6 (morning stiffness), and BASDAI Q1 (fatigue)**). Each BASDAI question is scored on a 0–10 numeric rating scale, where higher scores indicate worse pain/morning stiffness/fatigue.
 - Data were pooled across all randomized patients treated with BKZ, including PBO-randomized patients who switched to BKZ at Week 16, and analyzed using multiple imputation (MI).
- We report mean absolute scores, and change from baseline (CfB) with associated 95% confidence intervals (CI), to Week 164.

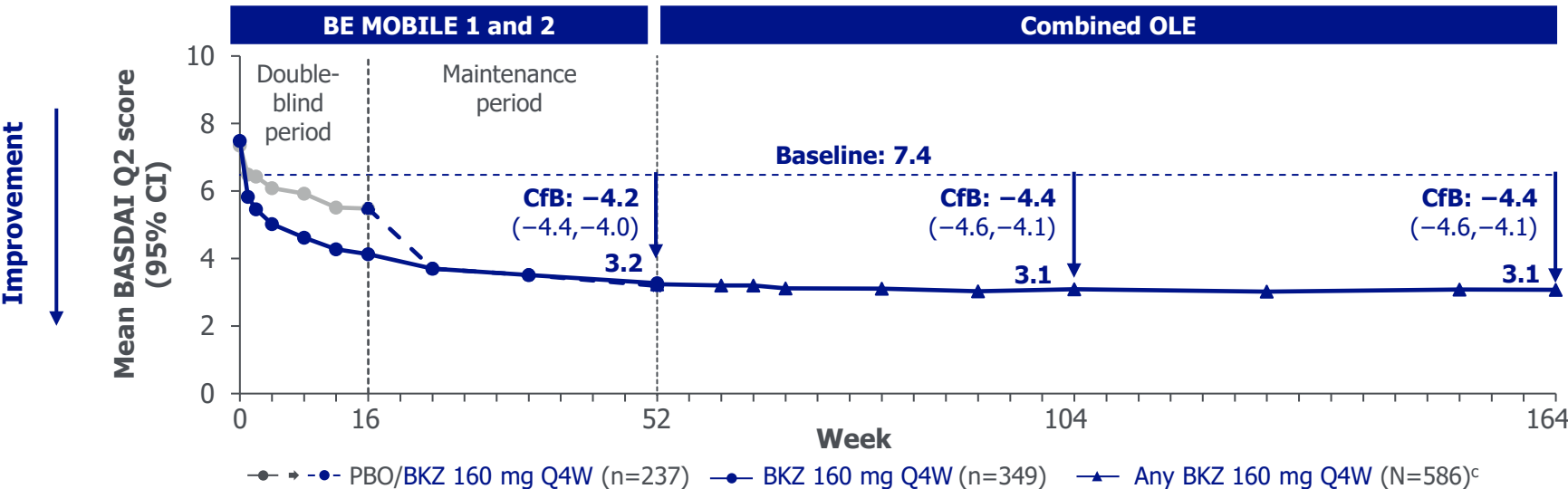
¹ Baraliakos X. et al. Ann Rheum Dis 2024;83:199–213. **[a]** Included patients had adult-onset nr-axSpA fulfilling ASAS classification criteria and objective signs of inflammation (active sacroiliitis on MRI and/or elevated CRP [≥ 6 mg/L]); **[b]** Included patients had radiographic evidence of r-axSpA fulfilling mNY criteria. All patients in BE MOBILE 2 also fulfilled ASAS criteria; **[c]** 10 patients were ongoing in the OLE prior to Week 164 at the time of the data-cut in September 2024; **[d]** Study participants will receive their final treatment dose at Week 160 (i.e., OLE Week 108); the SFU Visit will be conducted 20 weeks after the final treatment dose. ASAS: Assessment of SpondyloArthritis international Society; axSpA: axial spondyloarthritis; BASDAI: Bath Ankylosing Spondylitis Disease Activity Index; BKZ: bimekizumab; CfB: change from baseline; CI: confidence interval; CRP: C-reactive protein; MI: multiple imputation; mNY: modified New York; MRI: magnetic resonance imaging; nr-axSpA: non-radiographic axial spondyloarthritis; OLE: open-label extension; PBO: placebo; Q: question; Q4W: every four weeks; r-axSpA: radiographic axial spondyloarthritis; SFU: safety follow-up.

Baseline Characteristics

Mean (SD) unless otherwise stated


	BE MOBILE 1 (nr-axSpA) N=254	BE MOBILE 2 (r-axSpA) N=332
Age (years)	39.4 (11.5)	40.4 (12.3)
Sex, male, n (%)	138 (54.3)	240 (72.3)
BMI (kg/m ²)	27.4 (5.8)	26.9 (5.8)
Symptom duration (years)	9.0 (8.8)	13.5 (10.3)
HLA-B27 positive, n (%)	197 (77.6)	284 (85.5)
ASDAS	3.7 (0.7)	3.7 (0.8) ^a
BASDAI	6.8 (1.3)	6.5 (1.3)
hs-CRP (mg/L), geometric mean (geometric CV, %)	4.8 (261.8)	6.6 (246.3)
Prior TNFi exposure, ^b n (%)	27 (10.6)	54 (16.3)

Total Back Pain to Week 164 (BASDAI Q2; MI)



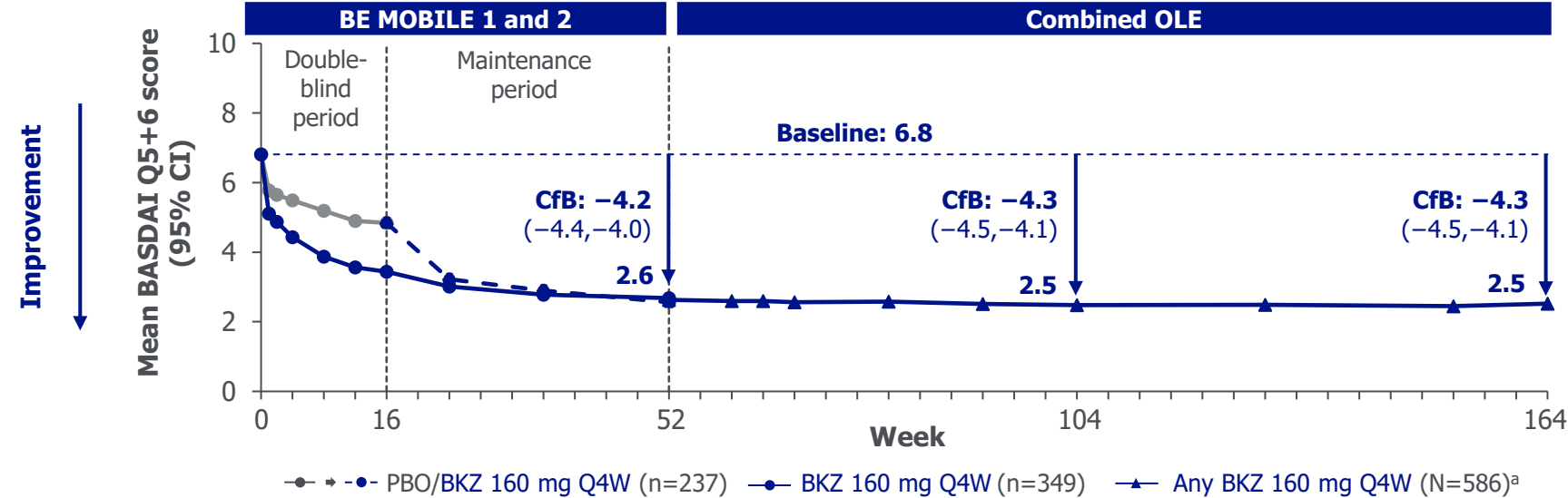
**BASDAI Q2:
Total Back Pain**

Assesses the severity of **neck, back, or hip pain** experienced by patients over the past week, using a numeric rating scale from 0 (none) to 10 (very severe).



Randomized sets/pooled randomized set. [a] n=331; [b] Defined as patients who were intolerant or experienced an inadequate response to previous TNFi treatment given at an approved dose for at least 12 weeks; [c] Includes patients originally randomized to placebo who switched to bimekizumab at Week 16. ASDAS: Axial Spondyloarthritis Disease Activity Score; axSpA: axial spondyloarthritis; BASDAI: Bath Ankylosing Spondylitis Disease Activity Index; BKZ: bimekizumab; BMI: body mass index; CfB: change from baseline; CI: confidence interval; CV: coefficient of variation; HLA-B27: human leukocyte antigen-B27; hs-CRP: high-sensitivity C-reactive protein; MI: multiple imputation; nr-axSpA: non-radiographic axSpA; Q: question; OLE: open-label extension; PBO: placebo; Q: question; Q4W: every four weeks; r-axSpA: radiographic axSpA; SD: standard deviation; TNFi: tumor necrosis factor inhibitor.

Morning Stiffness to Week 164 (Mean of BASDAI Q5+6; MI)



Mean BASDAI Q5+6: Morning Stiffness

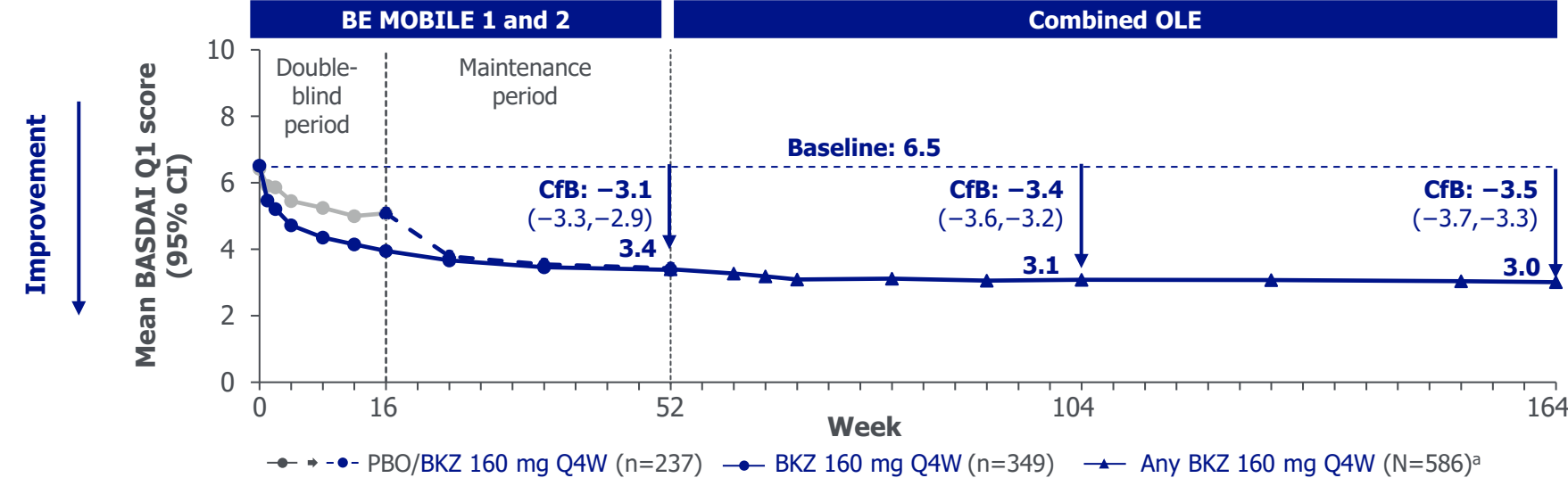


Measures the severity and duration of **morning stiffness** using a numeric rating scale:

- Q5 assesses the intensity of morning stiffness on a scale from 0 (none) to 10 (very severe)
- Q6 measures duration of morning stiffness, from 0 (0 hours) to 10 (≥2 hours)

Mean BASDAI Q5+6 is the mean of these two scores, which provides an overall measure of morning stiffness.

Fatigue to Week 164 (BASDAI Q1; MI)



BASDAI Q1: Fatigue



Assesses the severity of **fatigue** experienced by patients over the past week, using a numeric rating scale from 0 (none) to 10 (very severe).

Pooled randomized set. [a] Includes patients originally randomized to placebo who switched to bimekizumab at Week 16. axSpA: axial spondyloarthritis; BASDAI: Bath Ankylosing Spondylitis Disease Activity Index; BKZ: bimekizumab; CFB: change from baseline; CI: confidence interval; MI: multiple imputation; OLE: open-label extension; PBO: placebo; Q: question; Q4W: every four weeks.

Conclusions



Improvements in total back pain, morning stiffness, and fatigue were observed over 3 years of bimekizumab treatment across the full disease spectrum of axSpA.



Bimekizumab demonstrated sustained efficacy from Week 52 to Week 164, reflecting a long-term positive impact on symptom severity.



These findings indicate bimekizumab may provide a valuable long-term treatment option for achieving and maintaining treatment targets in axSpA.

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