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E071 BIMEKIZUMAB DEMONSTRATES SUSTAINED IMPROVEMENT IN QUALITY OF LIFE UP TO WEEK 52 IN PATIENTS ACROSS THE FULL SPECTRUM OF AXIAL SPONDYLOARTHRITIS: RESULTS FROM TWO PHASE 3 STUDIES

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Background/Aims

Bimekizumab (BKZ), a monoclonal IgG1 antibody that selectively inhibits IL-17F in addition to IL-17A, has demonstrated rapid and clinically meaningful improvements in disease activity in patients across the full spectrum of axial spondyloarthritis (axSpA; active non-radiographic axSpA [nr-axSpA; BE MOBILE 1, NCT03928704] and ankylosing spondylitis [AS]/ radiographic axSpA [r-axSpA; BE MOBILE 2, NCT03928743]). Here we report health-related quality of life (HRQoL) outcomes (ASQoL, SF-36 and EQ-5D-3L) from the two parallel phase 3 studies up to Week (Wk)52.

Methods

BE MOBILE 1 and 2 have similar study designs: 16-Wk double-blind placebo (PBO)-controlled period followed by 36-Wk maintenance period. Patients were randomised (1:1 in BE MOBILE 1; 2:1 in BE MOBILE 2) to receive BKZ 160mg Q4W or PBO. All patients received BKZ 160mg Q4W from Wk16 to Wk52. We report ASQoL, SF-36 - physical component summary (PCS) and SF-36 - mental component summary (MCS) scores up to Wk52 and proportion of patients with 'no problem' in each of the 5 EQ-5D-3L domains (mobility, selfcare, usual activity, pain/discomfort, and anxiety/ depression). The results are presented as observed cases (OC), and the missing data were imputed using multiple imputation (MI).

Results

254 nr-axSpA (BKZ: 128; PBO: 126) and 332 r-axSpA (BKZ: 221; PBO: 111) patients were randomised with 86.6% and 89.8% completing to Wk52, respectively. At Wk16, BKZ treated patients reported greater improvements in ASQoL and SF-36 PCS compared to PBO (p < 0.001, all comparisons, using Analysis of Covariance [ANCOVA]). By Wk52, these improvements across all HRQoL outcomes were sustained in BKZ treated patients and improved in patients who switched to BKZ at Wk16. (Table). The baseline SF-36 MCS levels indicated that on average patients had normal scores which remained unchanged throughout the study. The proportion of patients reporting 'no problem' across all five EQ-5D-3L domains improved over time up to Wk52. In patients with ASQoL ≥4 at baseline, >60% of patients had ≥4-point improvement in ASQoL at Wk52.

Conclusion

Across the axSpA disease spectrum, treatment with BKZ compared with PBO at Wk16 significantly improved quality of life outcomes measured by EQ-5D-3L, ASQoL and SF-36 PCS scores which were sustained to Wk52.

Pharma, Brussels, Belgium. **U. Massow:** Other; UM is an employee of UCB Pharma. **V. Taieb:** Other; VT is employee of UCB Pharma. **H. Marzo-Ortega:** Grants/research support; HMO has received grants/research support from Janssen, Novartis and UCB Pharma. Other; HMO has received honoraria and/or consultancy and/or speaker fees from Abbvie, Biogen, Celgene, Janssen, Eli-Lilly, Moonlake, Novartis, Pfizer and UCB Pharma. **K. Gaffney:** Shareholder/stock ownership; KG is a shareholder of Rheumatology Events. Grants/research support; KG has received grants/research support from NASS, Versus Arthritis, AbbVie, Pfizer, UCB Pharma, Novartis, Eli Lilly, Cellgene, Celltrion, Janssen, Gilead and Biogen. Other; KG has received honoraria/ consultancy fees from Novartis, AbbVie, UCB Pharma, Lilly and Pfizer, KG has received speaker's bureau from Novartis, UCB Pharma, AbbVie and Lilly; meeting expenses from AbbVie, Lilly, Roche, Novartis, Pfizer and UCB Pharma.

Table. Quality of life outcomes with BKZ in patients with nr-axSpA and r-axSpA at Week 16 and 52

Population		Week 16										Week 52										
		BE MOBILE 1 (nr-axSpA)					BE MOBILE 2 (r-axSpA)					BE MOBILE 1 (nr-axSpA)					BE MOBILE 2 (r-axSpA)					
		PBO (N=126)	BKZ 160mg Q4W (N=128)	MI (N=126)	OC (N=126)	OC (N=128)	PBO (N=111)	BKZ 160mg Q4W (N=221)	MI (N=111)	OC (N=111)	OC (N=221)	PBO (N=126)	BKZ 160mg Q4W (N=254)	MI (N=126)	OC (N=126)	OC (N=254)	PBO (N=111)	BKZ 160mg Q4W (N=332)	MI (N=111)	OC (N=111)	OC (N=332)	
ASQoL	Mean (SD)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)
	Mean (SD)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)
SF-36 PCS	Mean (SD)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)
	Mean (SD)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)
SF-36 MCS	Mean (SD)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)
	Mean (SD)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)	13.8 (8.4)

ASQoL, Ankylosing Spondylitis Quality of Life Questionnaire; BE, baseline; BKZ, Bimekizumab; OC, observed cases; EQ-5D-3L, EuroQol Quality of Life Five Dimension; 3L, 3-level; MI, multiple imputation; nr-axSpA, non-radiographic axSpA; PCS, physical component summary; SF-36 PCS, Short Form 36 physical component summary; SF-36 MCS, Short Form 36 mental component summary; SD, standard deviation; SE, standard error; SF-36 PCS, Short Form 36 physical component summary; SF-36 MCS, Short Form 36 mental component summary; SF-36, Short Form 36

Disclosure

N.D. McKay: Consultancies; NDM has received consultancy fees from Gilead and UCB Pharma. Other; NDM has received a registration fees for attendance at a conference from Abbvie, Novartis and UCB Pharma, NDM has received a fee for lecturing from Gilead, NDM has taken part in education meetings, programmes and examinations for a wide range of pharmaceutical companies. **A. Bennett:** Honoraria; AB received teaching honorarium from Abbvie Ltd, Pfizer, UCB Pharma, Novartis and Biogen. Grants/research support; AB received research grants from Pfizer. Other; AB received advisory board fees from Abbvie Ltd, Pfizer, UCB Pharma, MSD, Novartis and Lilly. **N. Goodson:** Honoraria; NG has received honoraria from UCB Pharma and Novartis. **C. Fleurinck:** Other; CF is an employee of UCB Pharma. **C. de la Loge:** Consultancies; CdL is a consultant to UCB