

Bimekizumab impact on efficacy and patient-reported outcomes in moderate versus severe hidradenitis suppurativa

Amit Garg,¹ Steven Daveluy,² Seth Forman,³ Francesca Prignano,⁴ Linnea Thorlacius,^{5,6} Vincent Piguet,⁷ Robert Roller,⁸ Bartosz Lukowski,⁹ Tom Vaux,¹⁰ Jérémy Lambert,¹¹ Georgios Kokolakis¹²

¹Northwell, New Hyde Park, New York, USA; ²Department of Dermatology, Wayne State University School of Medicine, Detroit, Michigan, USA; ³ForCare Clinical Research, Tampa, Florida, USA; ⁴Department of Health Sciences, Section of Dermatology, University of Florence, Florence, Italy; ⁵Department of Dermatology, Zealand University Hospital, Roskilde, Denmark; ⁶Biostatistics and Evidence-Based Research, the Parker Institute, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark; ⁷Division of Dermatology, Department of Medicine, Women's College Hospital, University of Toronto, Toronto, Ontario, Canada; ⁸UCB, Morrisville, North Carolina, USA; ⁹Vedim/UCB, Warsaw, Poland; ¹⁰UCB, Slough, UK; ¹¹UCB, Colombes, France; ¹²Psoriasis Research and Treatment Center, Clinic of Dermatology, Venereology and Allergology, Charité-Universitätsmedizin Berlin, corporate member of Freie Universität Berlin and Humboldt-Universität zu Berlin, Berlin, Germany



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Disclosures

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Introduction

- **Hidradenitis suppurativa** (HS) is a chronic, painful skin condition with substantial negative impacts on patients' quality of life.¹
- **Bimekizumab** (BKZ), a humanised monoclonal antibody which selectively inhibits interleukin (IL)-17F in addition to IL-17A, has previously demonstrated efficacy and safety in patients with moderate to severe HS.^{2,3}

Methods

- Data were pooled from the phase 3 BE HEARD I&II studies.³
- Here, outcomes are reported by **HS severity** (baseline Hurley Stage II [moderate] and III [severe]) to Week 48:
 - **International HS Severity Score System** (IHS4) response rates: IHS4-55/75/90, defined as $\geq 55/75/90\%$ improvement from baseline in IHS4 score.
 - **HS Symptom Questionnaire (HSSQ)** skin pain response: $\geq 30\%$ and ≥ 1 -unit reduction from baseline in HSSQ skin pain score among patients with a score of ≥ 3 at baseline.
 - **HS Quality of Life (HiSQOL)** total score response: ≥ 21 -point reduction from baseline total score among patients with a score ≥ 21 at baseline.
- Data are reported for the **BKZ Q2W/Q4W** subset and all patients randomised to BKZ (**BKZ Total**) at baseline.
- Data reported as observed case (OC).

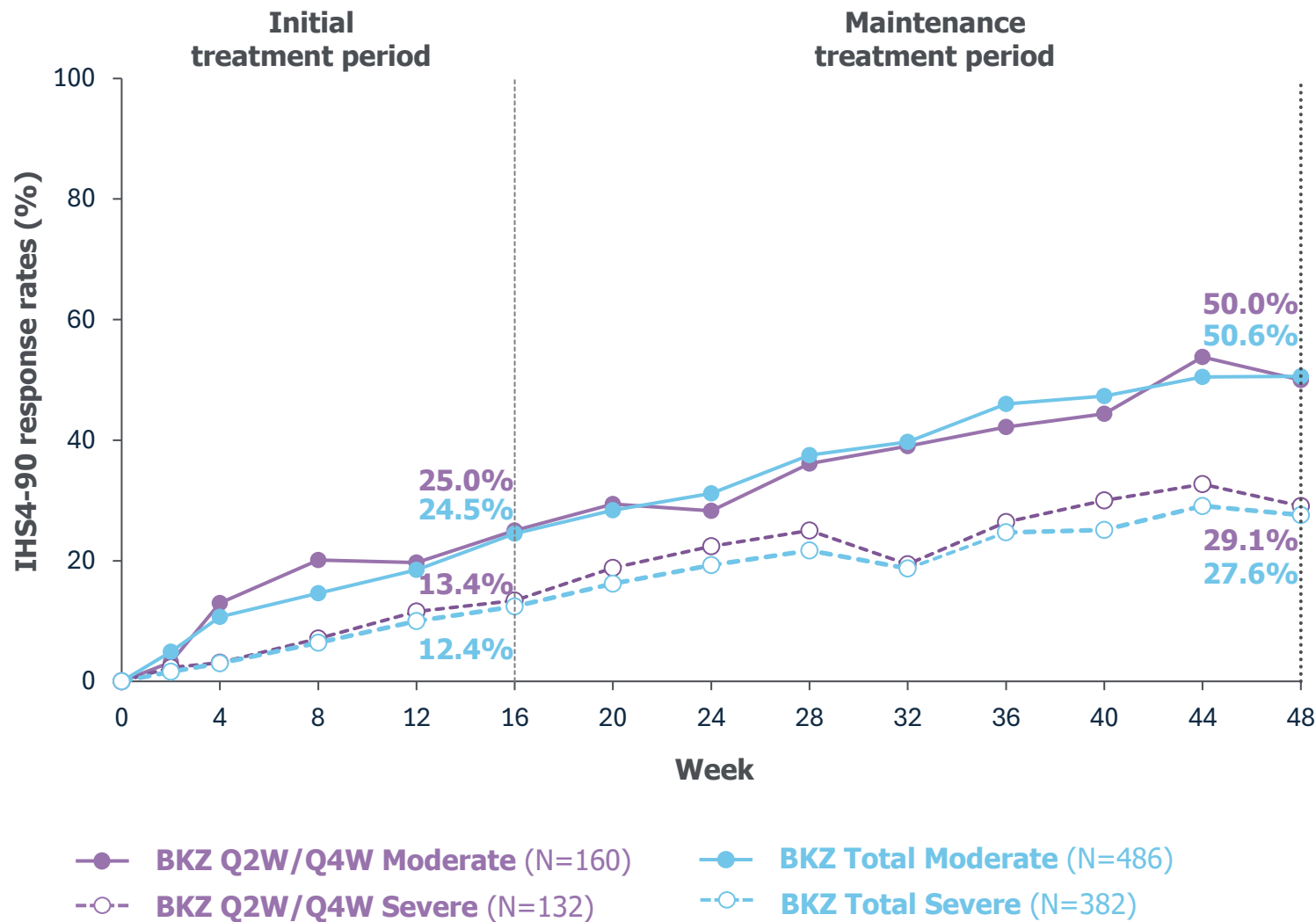
OBJECTIVE: To compare the impact of bimekizumab on efficacy outcomes and patient-reported outcomes (PROs) in patients with moderate vs severe HS after 48 weeks of treatment.

Baseline characteristics

	BKZ Q2W/Q4W N=292		BKZ Total N=868	
	Moderate ^a n=160	Severe ^a n=132	Moderate ^a n=486	Severe ^a n=382
Age (years), mean (SD)	38.0 (12.4)	35.8 (12.2)	36.9 (12.3)	36.0 (11.8)
Sex, female, n (%)	102 (63.8)	72 (54.5)	304 (62.6)	197 (51.6)
BMI (kg/m ²), mean (SD)	32.2 (7.3)	33.2 (8.5)	33.0 (8.1)	33.1 (8.2)
Duration of HS (years), mean (SD)	7.9 (7.7)	8.7 (7.7)	7.6 (7.6)	7.9 (7.2)
IHS4 score, mean (SD)	21.4 (14.1)	53.7 (41.8)	23.2 (20.7)	49.6 (36.1)
HSSQ skin pain score, mean (SD)	5.4 (2.3)	6.2 (2.3)	5.4 (2.4)	6.3 (2.3)
DLQI total score, mean (SD)	10.0 (6.5)	11.8 (6.8)	10.3 (6.6)	12.4 (7.0)
HiSQOL total score, mean (SD)	22.8 (13.1)	26.5 (13.0)	23.1 (13.0)	27.6 (13.2)

OLE set; only included patients who entered BE HEARD EXT at Week 48. BKZ Total (N=556) comprised patients randomised to BKZ from baseline in BE HEARD I&II (NCT04242446, NCT04242498) who entered BE HEARD EXT (NCT04901195) and continued to receive BKZ. N represents the number of randomised patients. **[a]** HS disease severity was based on baseline Hurley stage, where Hurley Stage II defined a patient with moderate HS and Hurley Stage III defined a patient with severe HS. BKZ: bimekizumab; BMI: body mass index; DLQI: dermatology life quality index; HS: hidradenitis suppurativa; HSSQ: HS Symptom Questionnaire; HiSQOL: HS Quality of Life; IHS4: International HS Severity Score System; OLE: open-label extension; Q2W: every two weeks; Q4W: every four weeks; SD: standard deviation.

IHS4-90 by HS severity (OC)

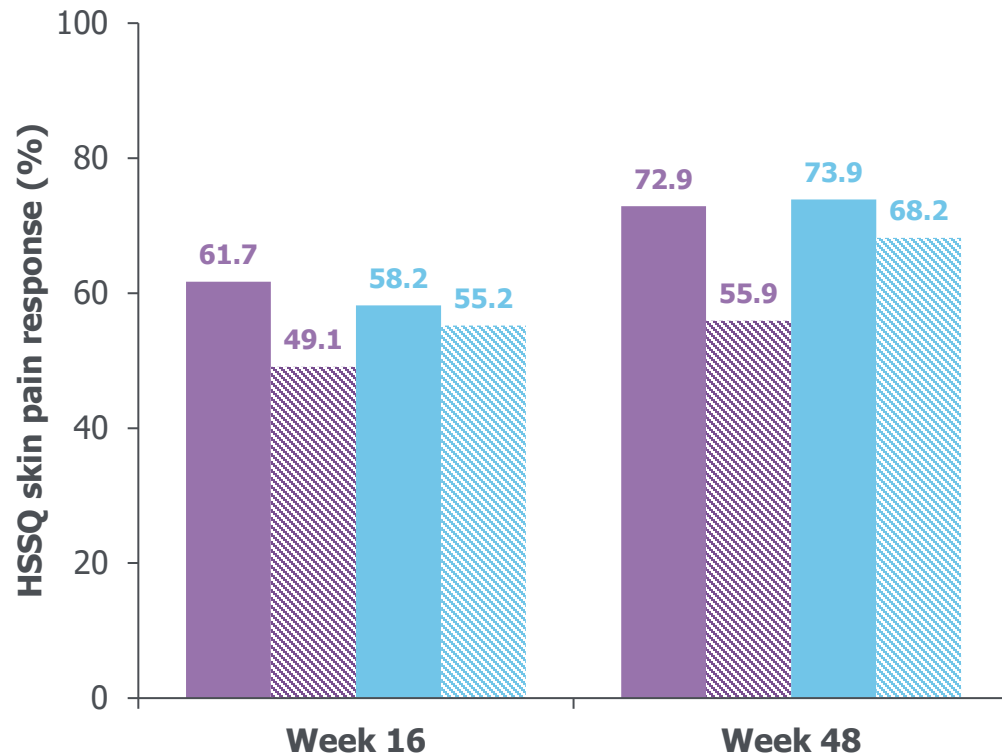


n/N Moderate HS (Hurley Stage II) Week 16: BKZ Q2W/Q4W, 36/144; BKZ Total, 106/433; Week 48: BKZ Q2W/Q4W, 54/108; BKZ Total, 167/330. n/N Severe HS (Hurley Stage III) Week 16: BKZ Q2W/Q4W, 16/119; BKZ Total, 43/346; Week 48: BKZ Q2W/Q4W, 30/103; BKZ Total, 78/283. IHS4-90 defined as $\geq 90\%$ improvement from baseline in IHS4 score. BKZ: bimekizumab; HS: hidradenitis suppurativa; IHS4: International HS Severity Score System; OC: observed case; Q2W: every two weeks; Q4W: every four weeks.

HSSQ skin pain and HiSQOL response rates (OC)

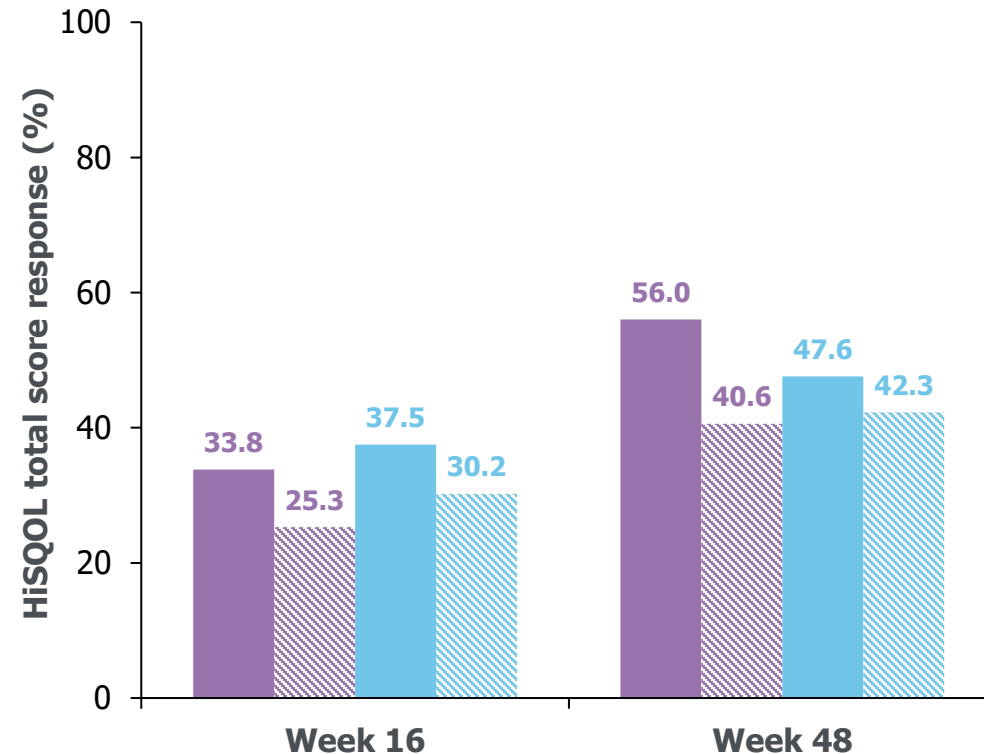
HSSQ response rate

($\geq 30\%$ and ≥ 1 -unit reduction from baseline in HSSQ skin pain score among patients with a score of ≥ 3 at baseline)



HiSQOL total score response

(≥ 21 -point reduction from baseline total score among patients with a score of ≥ 21 at baseline)



■ BKZ Q2W/Q4W Moderate (N=141) ■ BKZ Total Moderate (N=421)
▨ BKZ Q2W/Q4W Severe (N=119) ▨ BKZ Total Severe (N=345)

■ BKZ Q2W/Q4W Moderate (N=77) ■ BKZ Total Moderate (N=252)
▨ BKZ Q2W/Q4W Severe (N=83) ▨ BKZ Total Severe (N=258)

Conclusions



Bimekizumab treatment resulted in **clinically meaningful response rates** across efficacy and patient-reported outcomes among patients with moderate to severe hidradenitis suppurativa.



Patients with moderate disease severity demonstrated **better efficacy** and tended to have **better patient-reported outcomes**, emphasising the importance of **earlier treatment** for patients with moderate to severe hidradenitis suppurativa.

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