

# Bimekizumab efficacy through 96 weeks in patients with moderate to severe plaque psoriasis: Patient-reported outcomes from the BE RADIANT phase 3b trial

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## Objectives

Evaluate the proportion of patients with a score of 0 for the itching, skin pain, and scaling items of the Psoriasis Symptoms and Impacts Measure (P-SIM), or a score of 0/1 in the Dermatology Life Quality Index (DLQI) in patients with moderate to severe plaque psoriasis treated with bimekizumab (BKZ) for up to two years.

## Introduction

- Psoriasis can greatly reduce patients' quality of life, however patient experiences may not be fully captured by objective psoriasis severity measures.<sup>1</sup>
- It is therefore important to measure patient-reported outcomes (PROs) alongside clinical parameters.<sup>2</sup>
- Two-year outcomes from the BE RADIANT (NCT03536884) phase 3b trial of BKZ showed high levels of skin clearance in patients with moderate to severe plaque psoriasis.<sup>3</sup>
- The P-SIM is a reliable and well-defined PRO measure developed to capture key symptoms and impacts of psoriasis.<sup>2</sup>
- Here, PROs over 96 weeks of BE RADIANT are reported.

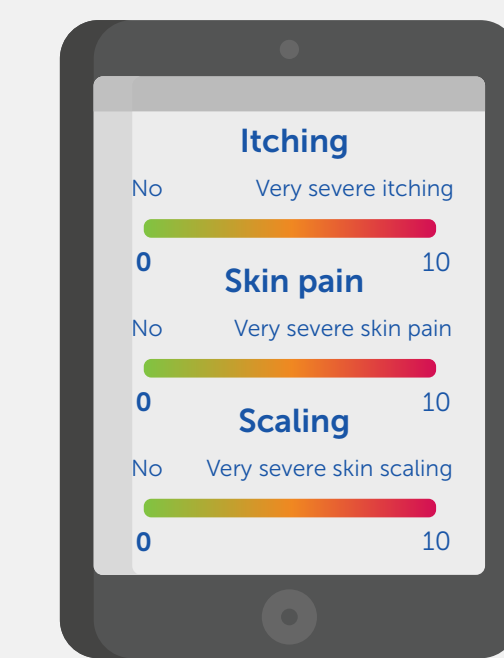
## Materials and Methods

- BE RADIANT comprises a 48-week double-blinded period, with patients randomised to BKZ or secukinumab (SEC), followed by an ongoing open-label extension (OLE) in which all patients receive BKZ (Figure 1).<sup>4</sup>
- We report proportions of patients with scores of 0 (no symptom, scored 0–10) on P-SIM itching, skin pain, and scaling items, and 0 or 1 on the DLQI (no effect of skin disease on a patient's life, scored 0–30).
- Missing data were imputed via modified non-responder imputation (mNRI): patients who discontinued study treatment due to lack of efficacy were considered non-responders at subsequent timepoints; multiple imputation was used for other missing data. Non-responder imputation (NRI) and observed case (OC) data are reported in Table 2.

## Results

- Of the 743 patients who entered BE RADIANT, 336 BKZ- and 318 SEC-randomised patients entered the OLE.
- Mean baseline P-SIM and DLQI scores were similar for patients randomised to BKZ and SEC (Table 1).
- Baseline P-SIM=0 rates were higher for the skin pain P-SIM item than for itching or scaling for both BKZ- and SEC-randomised patients (Table 1).
- Baseline P-SIM=0 and DLQI 0/1 rates were consistent across BKZ- and SEC-randomised patients, although baseline skin pain P-SIM=0 rates were slightly higher in patients randomised to BKZ (Figure 2; Table 2).
- At Week 48, BKZ-randomised patients had increased P-SIM=0 and DLQI 0/1 rates versus SEC-randomised patients (Figure 2; Table 2).
- High P-SIM=0 rates were maintained through to Week 96 for continuous BKZ-treated patients; SEC-randomised patients had higher or maintained rates after switching to BKZ (Figure 2A–C; Table 2).
- High DLQI 0/1 rates were maintained to Week 96 for BKZ-randomised patients; Week 96 rates in those who switched from SEC to BKZ were consistent with Week 48 (Figure 2D; Table 2).

## Summary



The Psoriasis Symptoms and Impacts Measure (P-SIM) is a reliable, well-defined patient-reported outcome measure developed to capture key signs, symptoms and impacts of psoriasis.<sup>2</sup>

Three P-SIM items and the DLQI were scored by patients at baseline and at specific timepoints.

A P-SIM score of 0 indicates no symptom, and a DLQI score of 0/1 indicates no effect of a skin disease on a patient's life.

At Week 48, BKZ-treated patients reported higher rates of no itching, no skin pain, and no scaling, and DLQI 0/1 versus SEC-treated patients; high rates were sustained through to Week 96. Patients who switched from SEC to BKZ had improved or maintained P-SIM=0 and DLQI 0/1 rates, consistent with patients who received continuous BKZ.

Table 1 Baseline characteristics

|  | BKZ/BKZ (N=336) | SEC/BKZ (N=318) |
|--|-----------------|-----------------|
| Age (years), mean ± SD                   | 45.5 ± 14.3     | 44.5 ± 14.5     |
| Male, n (%)                              | 227 (67.6)      | 209 (65.7)      |
| Caucasian, n (%)                         | 312 (92.9)      | 301 (94.7)      |
| Weight (kg), mean ± SD                   | 90.2 ± 21.0     | 89.1 ± 19.5     |
| BMI (kg/m <sup>2</sup> ), n (%)          |                 |                 |
| <25                                      | 77 (22.9)       | 73 (23.0)       |
| 25–<30                                   | 110 (32.7)      | 108 (34.0)      |
| ≥30                                      | 149 (44.3)      | 137 (43.1)      |
| Duration of psoriasis (years), mean ± SD | 18.4 ± 13.1     | 17.5 ± 12.1     |
| PASI, mean ± SD                          | 20.3 ± 7.7      | 19.5 ± 6.1      |
| BSA (%), mean ± SD                       | 25.3 ± 16.0     | 23.0 ± 13.3     |
| IGA, n (%)                               |                 |                 |
| 3: moderate                              | 214 (63.7)      | 234 (73.6)      |
| 4: severe                                | 120 (35.7)      | 84 (26.4)       |
| P-SIM score, mean ± SD                   |                 |                 |
| Itching                                  | 6.6 ± 2.8       | 6.6 ± 2.7       |
| Skin pain                                | 4.5 ± 3.3       | 4.6 ± 3.1       |
| Scaling                                  | 6.7 ± 2.5       | 6.7 ± 2.4       |
| DLQI, mean ± SD                          | 10.9 ± 6.7      | 11.2 ± 7.3      |
| History of psoriatic arthritis, n (%)    | 54 (16.1)       | 59 (18.6)       |
| Any prior systemic therapy, n (%)        | 241 (71.7)      | 237 (74.5)      |
| Any prior biologic therapy, n (%)        | 114 (33.9)      | 105 (33.0)      |
| Prior anti-IL-17 therapy                 | 36 (10.7)       | 47 (14.8)       |
| Prior anti-IL-12/23 therapy              | 23 (6.8)        | 15 (4.7)        |
| Prior anti-IL-23 therapy                 | 21 (6.3)        | 20 (6.3)        |

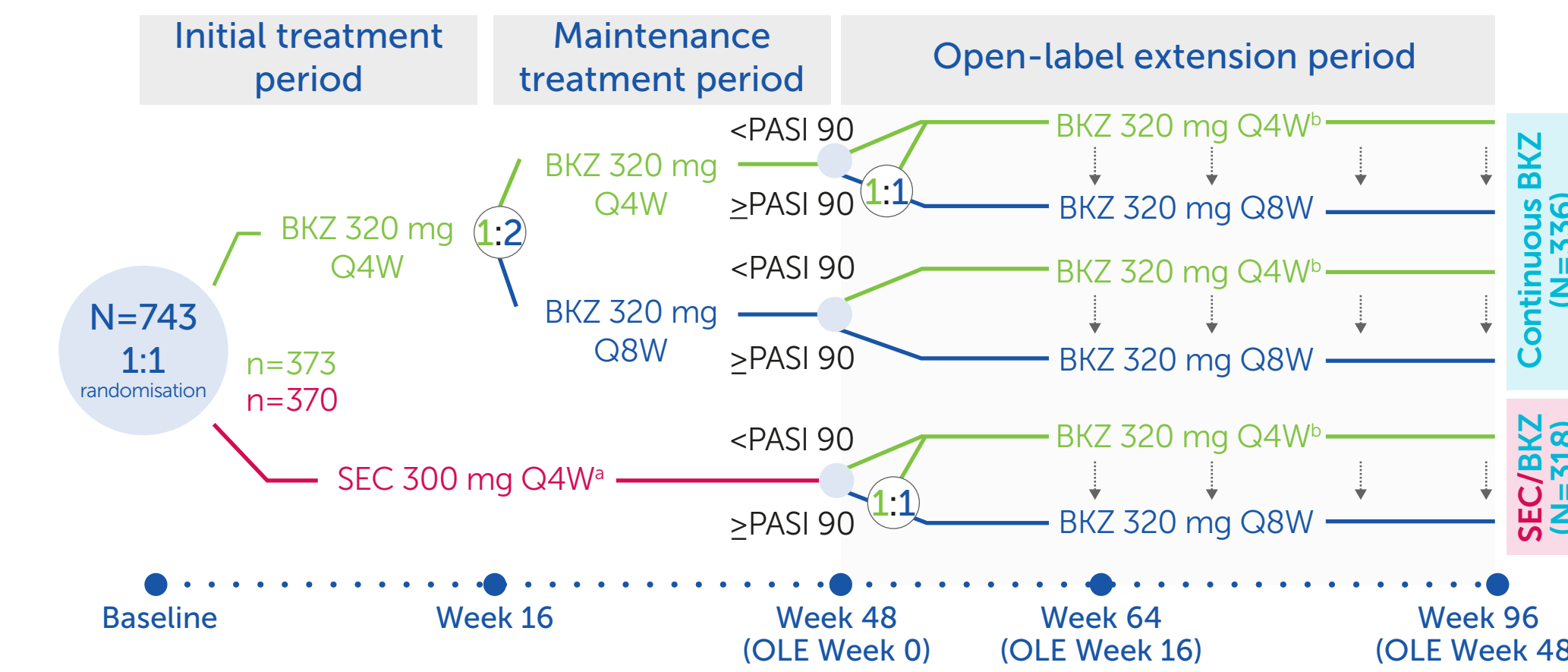
Data presented are for patients who entered the OLE only.

BKZ: bimekizumab; BMI: body mass index; BSA: body surface area; DLQI: Dermatology Life Quality Index; IGA: Investigator's Global Assessment; IL: interleukin; mNRI: modified non-responder imputation; NRI: non-responder imputation; OC: observed case; OLE: open-label extension; PASI 90: ≥90% improvement from baseline in Psoriasis Area and Severity Index; PRO: patient-reported outcome; P-SIM: Psoriasis Symptoms and Impacts Measure; Q4W: every 4 weeks; Q8W: every 8 weeks; SD: standard deviation; SEC: secukinumab.

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References: <sup>1</sup>Augustin M et al. Expert Rev Pharmacoecon Outcomes Res 2014;14:559–65. <sup>2</sup>Warren RB et al. Dermatol Ther (Heidelberg) 2021;11:1551–69. <sup>3</sup>Strober B et al. Presented at AAD 2022, poster 34321. <sup>4</sup>Reich K et al. N Engl J Med 2021;385:142–52. **Author Contributions:** Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: GK, RGL, ABG, MA, NM, BE, RV, ALF, RW, SW, VC, SRF. Final approval of the publication: GK, RGL, ABG, MA, NM, BE, RV, ALF, RW, SW, VC, SRF. **Author Disclosures:** GK: Received travel grants or honoraria, or has been a consultant/member of advisory boards and speakers bureaus or has served as investigator for AbbVie, Actelion, Almirall, Amgen, Basilea, Biogen, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly, Hexal-Sandoz, Janssen-Cilag, LEO Pharma, MSD, Novartis, Pfizer, and UCB Pharma. RGL: Principal investigator for AbbVie, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly, LEO Pharma, Merck, Novartis, Pfizer, UCB Pharma, served on scientific advisory boards for AbbVie, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly, LEO Pharma, Merck, Novartis, and Pfizer. ABG: Received honoraria as an advisory board member and consultant for: AnaptysBio, Avonca, Boehringer Ingelheim, Bristol Myers Squibb, Eli Lilly, Janssen, Novartis, Pfizer, Sun Pharma, UCB Pharma, Dermavant, Sanofi, and Xobtech (stock options for an RA project); received research/educational grants from: AnaptysBio, Janssen, Novartis, Ortho, UCB Pharma, and Sun Pharma; all funds go to Mount Sinai Medical School. MA: Consulting fees from AbbVie, Almirall, Amgen, Biogen, Boehringer Ingelheim, Celgene, Centocor, Eli Lilly, GSK, Hexal, Janssen, LEO Pharma, Medac, Merck, MSD, Mundipharma, Novartis, Pfizer, Sandoz, UCB Pharma, and Xenoport. NM: Honoraria for participation on advisory boards, as a speaker and/or for consultancy from AbbVie, Almirall, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly, Janssen, LEO Pharma, Novartis, Pfizer, and UCB Pharma. BE: Received research support as funding to Case Western Reserve University from AbbVie, AnaptysBio, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly, incyte, LEO Pharma, Merck, Menlo, Novartis, Pfizer, Regeneron, Sun Pharma, Valeant, and Vanda; consultant (honoraria) from Arcutis, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly, LEO Pharma, Merck, Novartis, Pfizer, Sun Pharma, UCB Pharma, Valeant, and Verrica. RV: Received grants or research support from AbbVie, Amgen, Centocor, Dermavant, Dermira, Eli Lilly, Galderma, GSK, LEO Pharma, Merck, Novartis, Pfizer, Regeneron, Takeda, and UCB Pharma; speakers bureau/honoraria for AbbVie, Almirall, Amgen, Bausch Health, Celgene, Cipler, Eli Lilly, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Pfizer, and UCB Pharma; received consulting fees from AbbVie, Actelion, Amgen, Bausch Health, Celgene, Cipler, Eli Lilly, Galderma, GSK, Janssen, LEO Pharma, Merck, Novartis, Palladin, Pfizer, and UCB Pharma. ALF: Received speaking and/or consulting fees from AbbVie, Almirall, Amgen, Boehringer Ingelheim, Eli Lilly, Janssen, LEO Pharma, Novartis, Pfizer, and UCB Pharma. RW: Venam and statistical consultant for UCB Pharma. SW: Employee and shareholder of UCB Pharma. VC: Employee of UCB Pharma. SRF: Received research, speaking and/or consulting support from AbbVie, Advance Medical, Almirall, Alvotech, Boehringer Ingelheim, Bristol Myers Squibb, Cerenam, Celgene, Eli Lilly, Galderma, GSK/Stiefel, Informa, Janssen, LEO Pharma, Menlo, Merck, Mylan, National Biological Corporation, National Psoriasis Foundation, Novartis, Ortho Dermatologics, Pfizer, Quent, Regeneron, Samsung, Sanofi, Suncare Research, Sun Pharma, and UpToDate; consults for other stakeholders through Gerson Lehrman, Guidpoint Global, and other consulting organizations; founder and majority owner of www.DrScore.com; and founder and part owner of Causa Research. **Acknowledgements:** This study was funded by UCB Pharma. We thank the patients and their caregivers in addition to the investigators and their teams who contributed to this study. The authors acknowledge Emma Francis-Gregory, BA, Costello Medical, Cambridge, UK for medical writing and editorial assistance and the Design team at Costello Medical for graphic design assistance. All costs associated with development of this poster were funded by UCB Pharma.

Figure 1 BE RADIANT study design



\*SEC 300 mg was administered at baseline, Weeks 1, 2, 3, and 4, then Q4W for the remainder of the double-blinded treatment period; \*Following a protocol amendment, all patients receiving BKZ 320 mg Q4W in the OLE period switched to BKZ 320 mg Q8W at the next scheduled clinic visit on or after the Week 64 visit. In this analysis, BKZ Q4W and Q8W treatment arms are pooled.

Figure 2 Percentages of patients with no symptoms in the itching, skin pain, and scaling items of the P-SIM, and no effect of skin disease on a patient's life in the DLQI (mNRI)

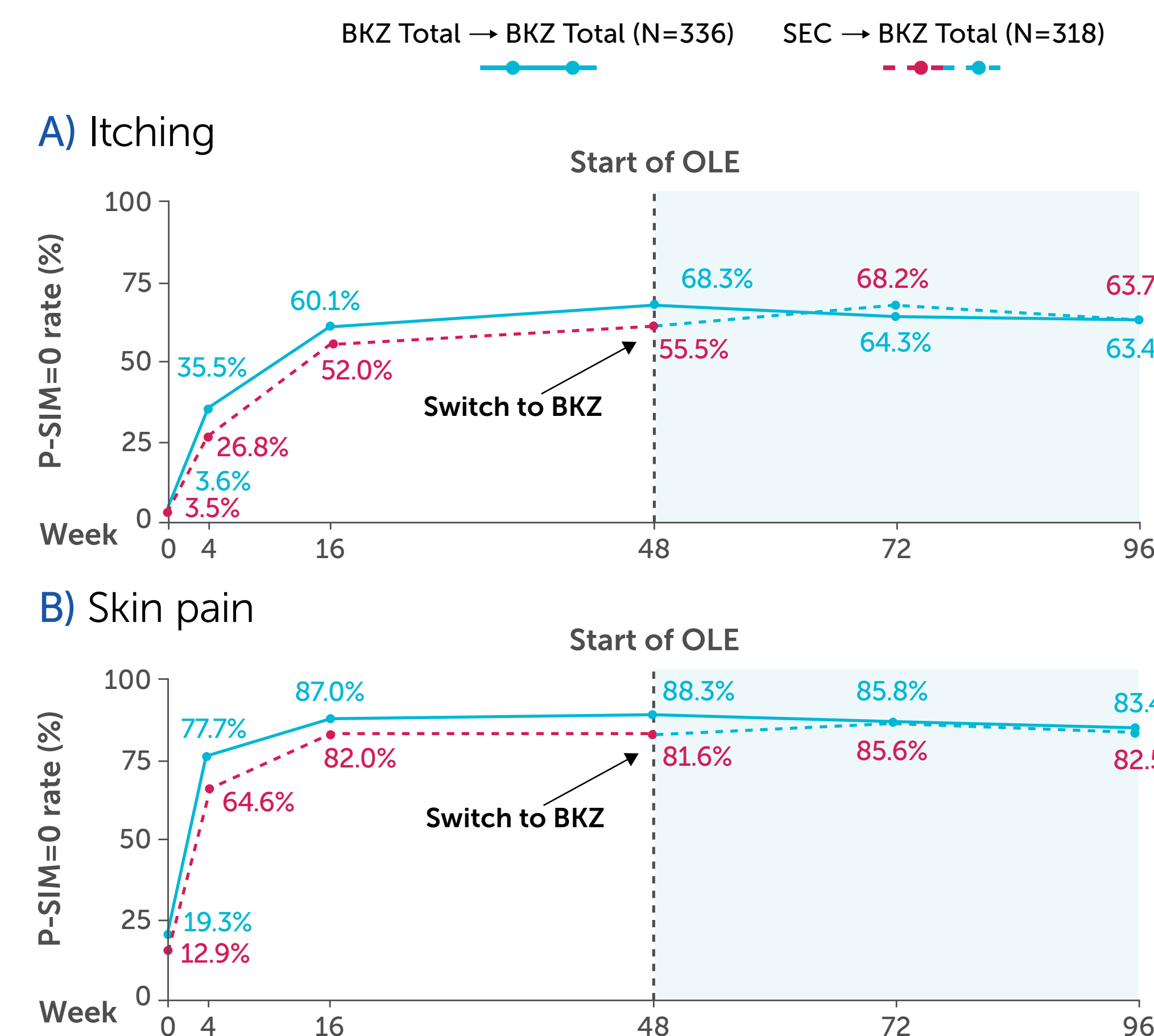
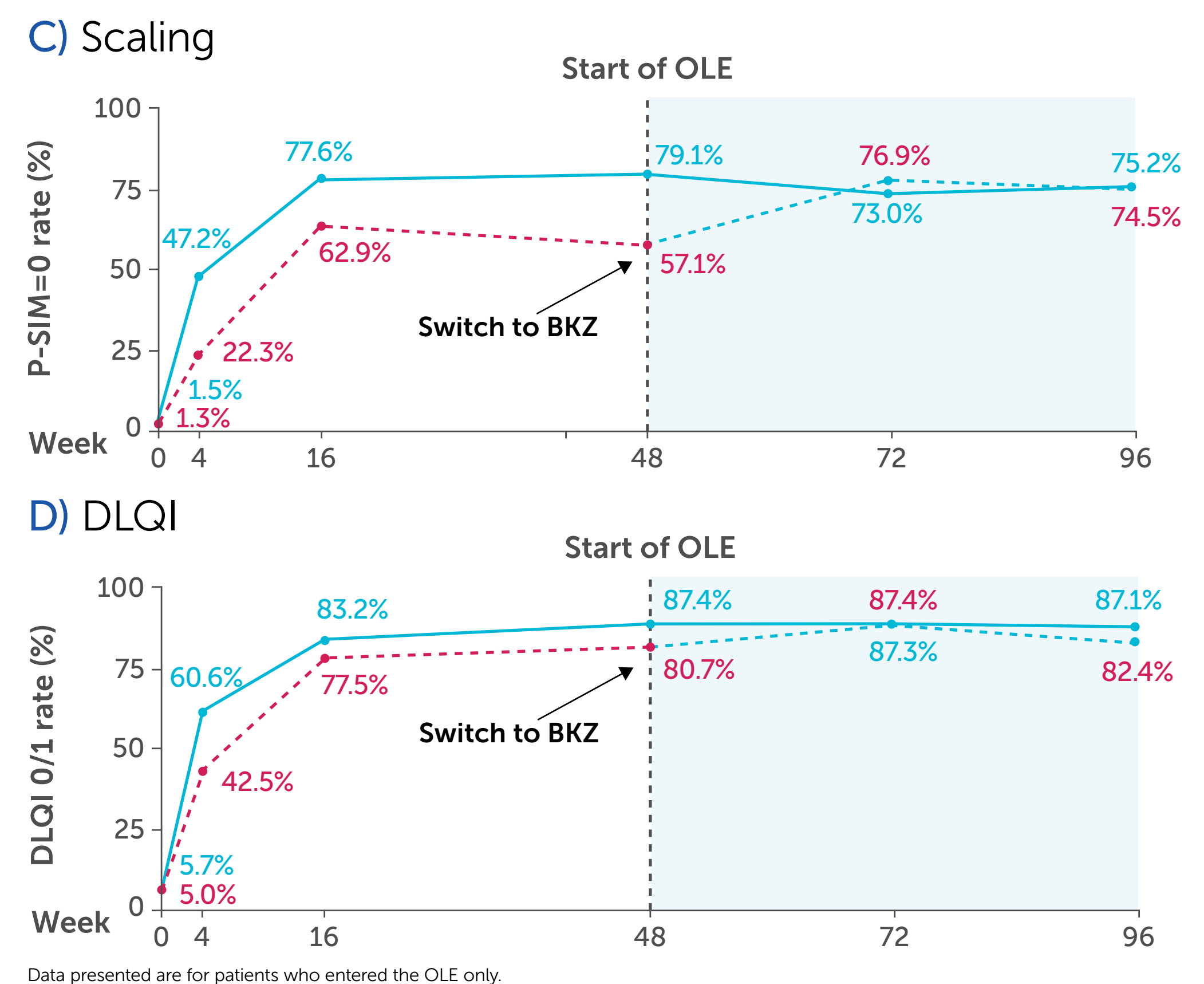


Table 2 P-SIM=0 and DLQI 0/1 rates through Weeks 0–96 of BE RADIANT (NRI, OC)

|                          | BKZ/BKZ (N=336) |                | SEC/BKZ (N=318) |                |
|--------------------------|-----------------|----------------|-----------------|----------------|
|                          | NRI n (%)       | OC n/N (%)     | NRI n (%)       | OC n/N (%)     |
| <b>Itching P-SIM=0</b>   |                 |                |                 |                |
| Baseline                 | 12 (3.6)        | 12/336 (3.6)   | 11 (3.5)        | 11/318 (3.5)   |
| Week 48                  | 225 (67.0)      | 225/327 (68.8) | 175 (55.0)      | 175/313 (55.9) |
| Week 72                  | 209 (62.2)      | 209/318 (65.7) | 209 (65.7)      | 209/297 (70.4) |
| Week 96                  | 201 (59.8)      | 201/307 (65.5) | 193 (60.7)      | 193/287 (67.2) |
| <b>Skin pain P-SIM=0</b> |                 |                |                 |                |
| Baseline                 | 65 (19.3)       | 65/336 (19.3)  | 41 (12.9)       | 41/318 (12.9)  |
| Week 48                  | 290 (86.3)      | 290/327 (88.7) | 257 (80.8)      | 257/313 (82.1) |
| Week 72                  | 279 (83.0)      | 279/318 (87.7) | 261 (82.1)      | 261/297 (87.9) |
| Week 96                  | 265 (78.9)      | 265/307 (86.3) | 246 (77.4)      | 246/287 (85.7) |
| <b>Scaling P-SIM=0</b>   |                 |                |                 |                |
| Baseline                 | 5 (1.5)         | 5/336 (1.5)    | 4 (1.3)         | 4/318 (1.3)    |
| Week 48                  | 260 (77.4)      | 260/327 (79.5) | 180 (56.6)      | 180/313 (57.5) |
| Week 72                  | 237 (70.5)      | 237/318 (74.5) | 234 (73.6)      | 234/297 (78.8) |
| Week 96                  | 239 (71.1)      | 239/307 (77.9) | 225 (70.8)      | 225/287 (78.4) |
| <b>DLQI 0/1</b>          |                 |                |                 |                |
| Baseline                 | 19 (5.7)        | 19/336 (5.7)   | 16 (5.0)        | 16/318 (5.0)   |
| Week 48                  | 287 (85.4)      | 287/327 (87.8) | 255 (80.2)      | 255/313 (81.5) |
| Week 72                  | 281 (83.6)      | 281/317 (88.6) | 263 (82.7)      | 263/293 (89.8) |
| Week 96                  | 274 (81.5)      | 274/306 (89.5) | 247 (77.7)      | 247/287 (86.1) |



## Conclusions

High levels of PRO responses to BKZ were maintained to Week 96.

SEC-treated patients who switched to BKZ at Week 48 maintained high DLQI 0/1 rates to Week 96; P-SIM=0 rates were maintained or improved, reaching similar levels to BKZ-randomised patients at Week 96.



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