Mean percent PASI improvement with bimekizumab in patients with moderate to severe plaque psoriasis: Pooled results from four phase 3/3b trials

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Objective

To evaluate the clinical efficacy of bimekizumab, using the mean percent change from baseline Psoriasis Area and Severity Index (PASI) through 16 weeks of treatment across four trials.

Introduction

- Bimekizumab is a monoclonal IgG1 antibody that selectively inhibits both interleukin (IL)-17A and IL-17F.^{1,2}
- Individual phase 3/3b clinical trials have demonstrated the clinical efficacy of bimekizumab, including fast onset of response durable over two years as measured by PASI cutoff thresholds, for the treatment of patients with moderate to severe plaque psoriasis.^{3–6}
- Mean percent change from baseline PASI can be used by clinicians to characterize expected improvements in skin symptoms over time in patients initiating treatment with bimekizumab.

Methods

- Data from the bimekizumab treatment arms of four phase 3/3b trials, BE READY (NCT03410992)³, BE VIVID (NCT03370133)⁴, BE SURE (NCT03412747)⁵, and BE RADIANT (NCT03536884)⁶, were pooled.
- Included patients received bimekizumab 320 mg every four weeks (Q4W) through Week 16 (Figure 1).
- Mean percent improvements from baseline PASI through Week 16 are reported for the pooled cohort. Pooled results from Week 2 do not include BE SURE data, as PASI was not assessed at this timepoint.
- Missing data were imputed as last observation carried forward (LOCF).

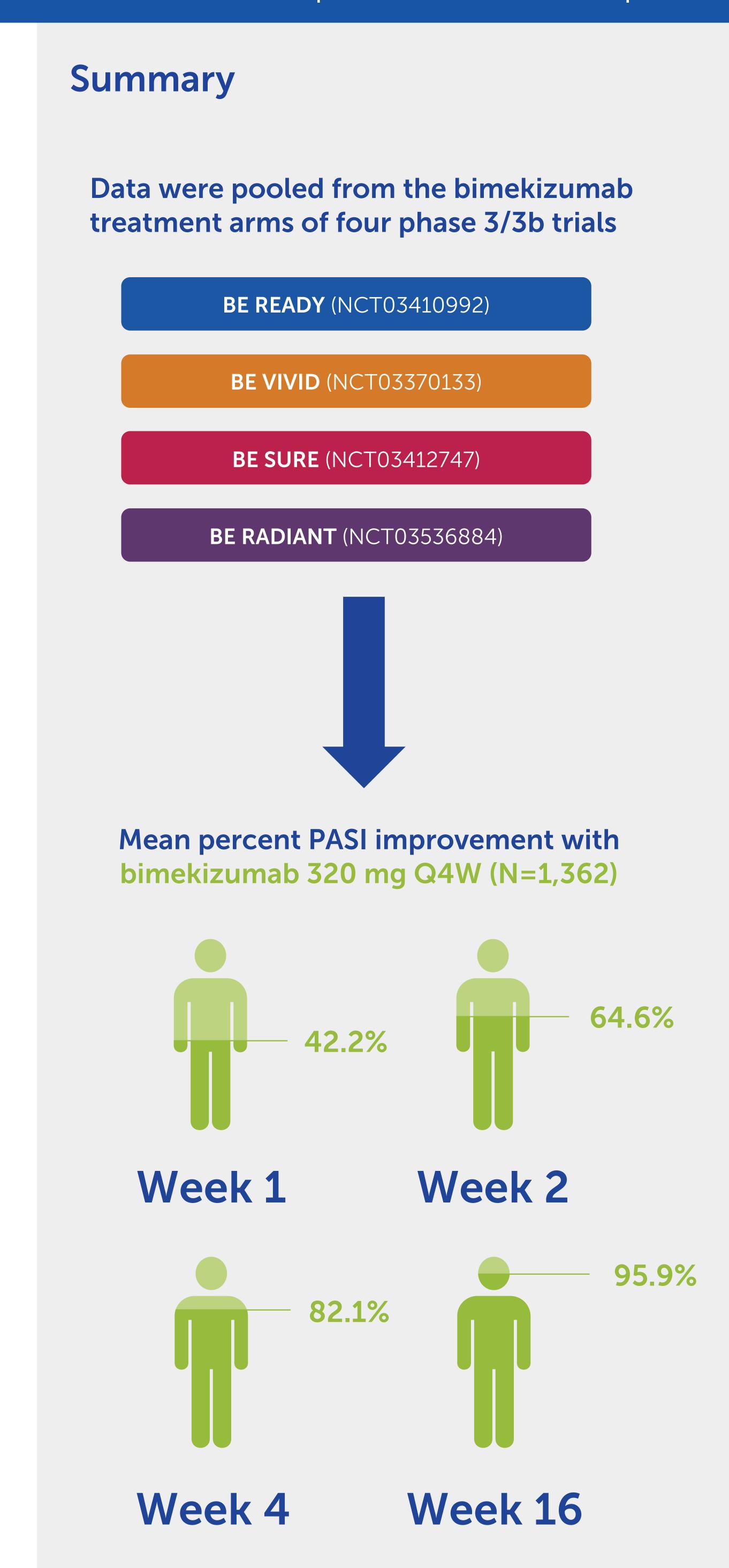
Results

- Patient demographics and baseline characteristics for the pooled cohort are reported in **Table 1**.
- A total of 1,362 bimekizumab-treated patients were pooled. Among these patients, mean percent improvements from baseline PASI at Weeks 1, 2, 4, and 16 were 42.2%, 64.6%, 82.1%, and 95.9%, respectively (Figure 2).
- Across all trials, the percentage of bimekizumab-treated patients who completed treatment through Week 16 ranged from 95.3–97.4%.

Conclusions

Marked mean percent PASI improvements were observed as early as Week 1 and continued to increase to Week 16, showing that high levels of skin clearance were rapidly achieved in patients receiving bimekizumab.

By showing average patient responses to bimekizumab, these data inform clinicians regarding expectations for bimekizumab treatment, allowing clinicians to clearly communicate the expectations of response to patients receiving bimekizumab.





References: 'Glatt S *et al.* Br J Clin Pharmacol 2017;83:991–1001; 'Papp KA *et al.* J Am Acad Dermatol 2018;79:277–286.e10; 'Gordon KB *et al.* Lancet 2021;397:475–86; 'Reich K *et al.* N Eng J Med 2021;397:475–48; 'Reich K *et al.* N Eng J Med 2021;397:47