# Dose Adjustment Patterns in the Open-Label Extension Arms of Three Phase 3 Trials of Certolizumab Pegol in Psoriasis: CIMPASI-1, CIMPASI-2, and CIMPACT

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# Objective

To assess Psoriasis Area and Severity Index (PASI) at the time of, and following, dose adjustment in the open-label extension period of three phase 3 clinical trials of certolizumab pegol in psoriasis.

# Background

- Plaque psoriasis (PSO) is an immune-mediated, inflammatory disease that affects 2-4% of adults.<sup>1</sup>
- Certolizumab pegol (CZP), an Fc-free, PEGylated anti-tumor necrosis factor biologic, has demonstrated efficacy and safety in moderate to severe PSO.<sup>2,3</sup>
- Here, we report patterns of dose adjustment between CZP 400 mg and 200 mg Q2W, and changes from baseline PASI, in phase 3 trials.

# Methods

### Study Design

- Data were pooled from the CIMPASI-1 (NCT02326298), CIMPASI-2 (NCT02326272), and CIMPACT (NCT02346240) trials (Figure 1). Patient eligibility criteria have been reported previously.<sup>1,2</sup>
- Patients who were randomized to placebo at Week 0 and were PASI 50 non-responders after 16 weeks of placebo treatment entered the open-label escape arm (Weeks 16–48), where they received CZP 400 mg Q2W.
- At Week 48, patients in the escape arm entered the open-label extension period, where dose adjustments were possible from Weeks 48–132, per protocol (Figure 1).

### Statistical Analysis

 Proportions of PASI 75 responders and median changes from baseline in PASI at the time of dose adjustments are presented.

## Results

### Patient Population and Baseline Characteristics

• 116 patients did not achieve PASI 50 after 16 weeks of placebo treatment and entered the open-label CZP 400 mg Q2W escape arm; baseline demographics are shown in Table 1.

### PASI 75 Response in Dose Non-Adjusters

- 97 patients entered the open-label extension at Week 48, and the majority (66.0%; 64/97) remained on CZP 400 mg Q2W throughout the entire period (Figure 2).
- 68.8% (44/64) of these patients were PASI 75 responders at Week 144 (Figure 2).



### Table 1

Age (years), me Male, n (%) Caucasian, n (2 Weight (kg), me Duration of PS PsA,ª n (%) PASI, mean <u>+</u> BSA (%), mean PGA score, n ( 3: moderate 4: severe DLQI total sco Any prior syste n (%) Prior biologic anti-TNF anti-IL-17 anti-IL-12/IL-2

<sup>a</sup>PsA was self-reported.

	Placebo $\rightarrow$ CZP 400 mg Q2W
	(N=116)
ean <u>+</u> SD	46.4 <u>+</u> 12.6
	76 (65.5)
(%)	108 (93.1)
nean <u>+</u> SD	94.0 <u>+</u> 26.1
SO (years), mean <u>+</u> SD	17.7 <u>+</u> 12.1
	19 (16.4)
SD	18.8 <u>+</u> 6.7
ι <u>+</u> SD	23.2 <u>+</u> 13.9
(%)	
	81 (69.8)
	35 (30.2)
ore, mean <u>+</u> SD	12.9 <u>+</u> 7.4
emic therapy use for PSO,	87 (75.0)
use, n (%)	33 (28.4)
	19 (16.4)
	12 (10.3)
23	6 (5.2)



References: <sup>1</sup>Parisi R. et al. J Invest Dermatol 2013;133:377-85; <sup>2</sup>Gottlieb AB. et al. JAAD 2018;79:302-14.e6; <sup>3</sup>Lebwohl M. et al. JAAD 2018;79:266-76. Author Contributions: Substantial contributions: Substantial contributions: Substantial contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: AB, ABG, FF, FB, SW, HS; Drafting of the publication, or revising it critically for important intellectual content: AB, ABG, FF, FB, SW, HS; Final approval of the publication: AB, ABG, FF, FB, SW, HS. Author Disclosures: AB: Served as a scientific adviser and/or clinical study investigator for AbbVie, Aclaris, Almirall, Arena, Athenex, Boehringer Ingelheim, Bristol-Myers Squibb, Dermavant, Dermira, Eli Lilly and Company, Forte, Galderma, Incyte, Janssen, LEO Pharma, Novartis, Ortho, Pfizer, Rapt, Regeneron, Sandoz, Sanofi Genzyme, Sun Pharma, and UCB Pharma, and UCB Pharma, and as a paid speaker for AbbVie. ABG: Received honoraria as an advisory board member and consultant for Avotres Therapeutics; Beiersdorf; Boehringer Ingelheim; Bristol-Myers Squibb Co.; Incyte; Janssen; LEO Pharma; Eli Lilly; Novartis; Sun Pharmaceutical Industries, Inc.; UCB; and Xbiotech (only stock options which she has not used); and has received research/educational grants from Boehringer Ingelheim; Celgene; Dermira; Janssen; Eli Lilly; Medimmune; Novartis; Pfizer; Sun Pharma; UCB Pharma; Valeant. Acknowledge Mylene Serna, Pharma, We thank the patients and their teams who contributed to this study. The authors acknowledge Mylene Serna, Pharma, We thank the patients and their caregivers in addition to the investigators and their caregivers in addition to the investigators and their caregivers in addition to the investigators and their teams who contributed to this study. The authors acknowledge Mylene Serna, Pharma, We thank the patients and their caregivers in addition to the investigators and their teams who contributed to this study. coordination and Jenna Hebert, PhD, Costello Medical, Boston, MA, USA for medical with development of this poster were funded by UCB Pharma in accordance with the Good Publication Practice (GPP3) guidelines.

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