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A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

PSORIASIS

THE EFFECT OF GUSELKUMAB ON PSORIASIS IN PATIENTS WITH ACTIVE PSORIATIC ARTHRITIS: RESULTS FROM A PHASE 2 STUDY

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Introduction/Objective: The effect of guselkumab on psoriasis was evaluated in a phase 2 study in patients with active psoriatic arthritis (PsA).

Materials/Methods: Patients with \geq 3 tender and \geq 3 swollen joints, C-reactive protein \geq 3 mg/L, and $\geq 3\%$ plague-psoriasis body-surface area (BSA), despite treatment, were randomized 2:1 to receive subcutaneous guselkumab 100mg (n=100) or placebo (n=49) at wk0, 4, then g8wks through wk44. At wk16, patients with <5% improvement in swollen and tender joint counts were eligible for early escape (EE) to open-label ustekinumab. guselkumab Remaining placebo patients crossed over to receive 100mg (PBO→GUS) at wks24, 28, 36, and 44. Psoriatic Area and Severity Index (PASI) responses through wk24 were analyzed using last-observation-carried-forward for missing data and data post EE. After wk24, observed data were analyzed

Results: At baseline, BSA and PASI scores were consistent with moderate-to-severe psoriasis (mean (SD): 16.0 [14.70], 11.32 [9.78], respectively) in the overall population, and 80.5%, 43.0%, and 41.6% of patients had scalp, nail, and hand/foot psoriasis, respectively. Higher baseline BSA and PASI scores were associated with greater ACR 20 response at wk24 in GUS patients (BSA≤10%, 55.8%; BSA>10, 59.6% and PASI<12, 50.0%; PASI≥12, 71.1%).

At wk24, significantly more GUS vs PBO patients achieved PASI 75 (78.6% vs 12.5%, p<0.001), PASI 90 (66.3% vs 6.3%), and PASI 100 (39.8% vs 6.3%, p<0.001).







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Improvement in PASI responses was first observed at wk4 (PASI 75/90/100: 16.3%/9.2%/3.1% for GUS vs 4.2%/0/0 for PBO). PASI 75/90 response at wk16 correlated with trough GUS serum concentration at wk12. PASI 75/90/100 responses were maintained through wk56 in GUS patients (85.4%/78.0%/57.3%). After wk24, rapid improvements in PASI 75/90/100 responses were also observed in PBO→GUS patients (81.5%/74.1%/55.6% at wk56).

Conclusions: GUS demonstrated robust efficacy for treatment of cutaneous manifestations of psoriasis in PsA pts with \geq 3% BSA, and responses were maintained through wk56.



24TH WORLD CONGRESS OF DERMATOLOGY MILAN 2019



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