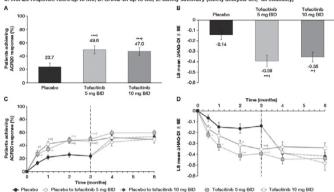
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28.8% [p \leq 0.05] vs 13.0%). Secondary endpoints at M3 for tofacitinib 5 mg and 10 mg respectively were: ACR50 response, 29.8% (p \leq 0.05), 28.0% (p \leq 0.05); ACR70 response, 16.8% (not significant [NS]), 14.4% (NS); \geq 75% improvement of PASI in pts with baseline BSA \geq 3% and PASI >0, 21.3% (NS), 43.2% (p<0.0001); Δ LEI and Δ DSS in pts with baseline score >0: Δ LEI, -1.3 (p \leq 0.05) and -1.3 (p \leq 0.05) (least squares mean [LSM]); Δ DSS, -5.2 (p \leq 0.05) and -5.4 (p \leq 0.05) (LSM). Effects were maintained to M6. Frequency of serious AEs and discontinuations due to AEs was low and similar across treatment groups (Fig 1E). The most common AEs were upper respiratory tract infection (5.3–10.8%), nasopharyngitis (1.5–10.7%) and headache (4.5–9.1%).

Figure 1. A. ACR20 response rates with tofacitinib vs placebo at M3, B. ΔHAQ-DI with tofacitinib vs placebo at M3, C. ACR20 response rates up to M6, D. ΔHAQ-DI up to M6, E. Safety summary (safety analysis set;* all causality)



	Up to M3	Up to M6			
	Placebo (N=131)	Placebo → tofacitinib 5 mg BID (N=66)	Placebo → tofacitinib 10 mg BID (N=85)	Tofacitinib 5 mg BID (N=131)	Tofacitinib 10 mg BID (N=132)
AEs, n (%)	58 (44.3)	40 (60.6)	38 (58.5)	93 (71.0)	96 (72.7)
SAEs, n (%)	3 (2.3)	2 (3.0)	1 (1.5)	5 (3.8)	8 (6.1)
Discontinuation due to AEs, n (%)	5 (3.8)	2 (3.0)	3 (4.6)	5 (3.8)	11 (8.3)
Deaths, n (%)	0	0	0	0	0
AEs of special interest, n (%) [day of onse	rt]				
Serious infection	0	0	0	2 (1.5) [135, 168]	2 (1.5) [10, 69]
Herpes zoster (all non-serious)	0	0	0	1 (0.8) [77]	2 (1.5) [8, 156]
Malignancyh	0	0	0	0	0
MACE*	0	0	0	1 (0.8) [245]	1 (0.8) [94]

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ACR, American Codege of Rheumatology, AE, adverse event; EID, Notice daily, MAC-DI, Health Assessment Cuestionniare-Disability Index; M, month;

Conclusions: In this study restricted to PsA pts with TNFi-IR, both tofacitinib doses appeared efficacious on musculoskeletal endpoints for treatment of PsA. No new safety risks were identified vs previous studies in other indications.

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Immunogenicity of biologics; myth or reality? _

OP0203

IMPACT OF ADALIMUMAB SERUM CONCENTRATION ON EFFICACY AND ASSOCIATION BETWEEN ANTI-DRUG ANTIBODIES AND SERUM CONCENTRATION: 24 WEEK RESULTS FROM A PHASE III STUDY COMPARING SB5 (AN ADALIMUMAB BIOSIMILAR) WITH REFERENCE ADALIMUMAB IN PATIENTS WITH RHEUMATOID ARTHRITIS

<u>J. Kay</u>¹, M. Weinblatt², E. Keystone³, M. Genovese⁴, J. Ghil⁵, S.Y. Cheong⁵, E.E. Hong^{5,5}. ¹ UMass Memorial Medical Center, Worcester, ² Brigham and

Women's Hospital, Boston, United States; ³Mount Sinai Hospital, Toronto, Canada; ⁴Stanford University, Palo Alto, United States; ⁵Samsung Bioepis Co., Ltd., Incheon, Korea, Republic Of

Background: SB5 has been developed as a biosimilar of reference adalimumab (ADL). The 24-week efficacy and safety results comparing SB5 and ADL were reported previously. Here we report results of subgroup analyses of efficacy by adalimumab serum trough concentration (C_{trough}) and association between anti-drug antibodies (ADA) and C_{trough} .

Objectives: To investigate the impact of C_{trough} on efficacy and the association between ADA and C_{trough} in patients with rheumatoid arthritis (RA) treated with SB5 or ADL.

Methods: Patients with moderate to severe RA despite methotrexate treatment were randomly assigned to receive 40 mg of either SB5 or ADL administered subcutaneously every other week up to week 24. Blood samples were taken prior to study drug administration at weeks 0, 4, 8, 12, 16, and 24 to measure C_{trough} . The optimal C_{trough} cut-off point of adalimumab for good EULAR response at week 24 is reported to be 1.274 μg/mL. Efficacy and immunogenicity were analysed in patients with $C_{trough} < 1.274$ μg/mL and ≥ 1.274 μg/mL.

Results: C_{trough} was measured in 178 patients each from SB5 and ADL group. The post-dose mean C_{trough} was comparable up to week 24 for SB5 (range: 3.850 to 6.761 μ g/mL) and ADL (range: 3.892 to 6.773 μ g/mL). Generally, efficacy was higher in patients with $C_{trough} \geq 1.274$ μ g/mL for both SB5 and ADL but it was comparable between SB5 and ADL regardless of C_{trough} level. At week 24, the proportion of patients achieving good EULAR response, remois or low disease activity based on DAS28 was higher in patients with $C_{trough} \geq 1.274$ μ g/mL tan in those with $C_{trough} < 1.274$ μ g/mL for both treatment groups (Figure). Other efficacy parameters, including ACR responses, DAS28, simplified disease activity index, and clinical disease activity index, showed similar results.

 C_{trough} was higher for patients without detectable ADA, compared to those with ADA. Among patients with ADA, the proportion of patients with $C_{trough} \geq 1.274$ $\mu g/mL$ was 58.0% (29/50) for SB5 and 52.1% (25/48) for ADL. Among patients without detectable ADA, the proportion of patients with $C_{trough} \geq 1.274$ $\mu g/mL$ was 100.0% (121/121) for SB5 and 97.4% (114/117) for ADL.

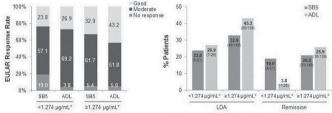


Figure. EULAR Responses, LDA, and Remission by Ctrough at Week 24

*C trough level; LDA, low disease activity LDA defined as DAS28 \leq 3.2 and remission defined as DAS28 \leq 2.6.

Conclusions: The presence of ADA reduces C_{trough} for both SB5 and ADL. In both treatment groups, almost all patients without detectable ADA, but only slightly more than half of patients with ADA, had $C_{trough} \geq 1.274 \ \mu g/mL$ at week 24. Efficacy and ADA incidence were generally comparable between SB5 and ADL regardless of C_{trough} level. However, patients with $C_{trough} \geq 1.274 \ \mu g/mL$ generally experienced greater efficacy of both SB5 and ADL than that in patients with $C_{trough} < 1.274 \ \mu g/mL$.

References

[1] Weinblatt ME et al. Arthritis Rheumatol. 2015; 67 (suppl 10), 8L.

[2] Chen DY et al., Ann Rheum Dis, 2015; Mar;74(3):e16.

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