



POSTER PRESENTATION

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Efficacy of canakinumab in biologic-naïve versus previously biologic-exposed SJIA patients: a 12 week pooled post-hoc analysis

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Introduction

Canakinumab (CAN), a selective, human anti-IL-1 β monoclonal antibody is approved for SJIA in over 30 countries. Efficacy and safety of CAN over 12 weeks have been demonstrated in 2 phase III trials [1]. Out of these trials >60% of the pts received a previous biologic and were switched to CAN due to lack of efficacy or for safety reasons, and may be more refractory to another biologic therapy.

Objectives

To present a post-hoc evaluation of CAN efficacy in biologic-naïve (BN) pts and those previously exposed to biologics (BE) during the first 12-weeks.

Methods

Pooled data from CAN naïve pts, enrolled in two phase III trials¹ and an extension phase (up to interim data lock 10 August 2012) were considered. Pts (2–19 yrs) with active SJIA were enrolled and received CAN 4 mg/kg or placebo sc every 4 weeks for 12 weeks. CAN naïve pts who entered the trials and received at least one dose of CAN were included in this analysis (N=178 CAN naïve pts). Descriptive efficacy analyses of adapted ACR-JIA responses at Week 12 are provided for the BN and BE pts groups.

Results

At baseline, there were 66 (37%) BN pts whereas anakinra (ANA), tocilizumab (TCZ), etanercept (ETN) and adalimumab (ADA), were the biologics received by 78 (44%),

10 (6%), 58 (33 %) and 9 (5%) pts, respectively. The main reasons for discontinuation of biologics in BE group (n=112) was lack of efficacy (ANA, n=32; TCZ, n=7; ETN, n=56; ADA, n=9) or safety/tolerability (ANA, n=20; TCZ, n=4, ETN, n=0). At Week 12, the BN and BE groups were similar in aACR-JIA 30 and 50 response rates (Week 2: aACR-JIA 30: 80% vs 80%; aACR-JIA 50: 76% vs 67%; Week 12: aACR-JIA 30: 76% vs 67%; aACR-JIA 50: 74% vs 65%). Numerically higher aACR-JIA 70 and 90 response rates were achieved in BN vs. BE pts (Week 2: aACR-JIA 70: 67% vs 52%; aACR-JIA 90: 36% vs 37%; Week 12: aACR-JIA 70: 70% vs 55%; aACR-JIA 90: 61% vs 42%). aACR-JIA 70 and 90 response rates were similar in pts previously exposed to ANA vs those not exposed to ANA at 12 weeks (aACR-JIA70: 58% vs.63%; aACR-JIA 90:47% vs 50%). Compared to pts who discontinued ANA due to lack of efficacy, there was a trend towards higher aACR-JIA 70 and 90 response rates at Week 12 in pts who stopped ANA for other reasons (aACR-JIA70: 34% vs.74%; aACR-JIA90: 25% vs. 63%). A higher aACR-JIA 30, 50, 70 and 90 response rates were observed in TCZ naïve pts vs. those pts exposed to TCZ (n=10) [aACR-JIA30: 71% vs.50%; aACR-JIA50: 70% vs. 50%; aACR-JIA70: 61% vs.50%; aACR-JIA90: 49% vs. 40%]. Higher aACR-JIA 70 and 90 responses were observed for ETN naïve pts vs. those exposed to ETN [aACR-JIA70: 67% vs. 48%; aACR-JIA90: 58% vs. 31%]; while ADA- naïve pts had similar responses to CAN as ADA-exposed pt (aACR-JIA 70: 61% vs 56%) and they had higher aACR-JIA 90 response (aACR-JIA90: 50% vs. 22%).

Conclusion

In general, pts previously exposed to biologics achieved aACR-JIA 50,70 and 90 responses to CAN quickly in

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the first 2 weeks, and maintained their response up to Week 12; albeit at a numerically lower level than biologic-naïve pts. These data support the consistent efficacy of CAN across different subgroups of pts.

Disclosure of interest

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