number of color pixels to all the pixels in a selected range of interest (ROI). The study was approved by the proper ethics committee. Statistical analysis: differences between groups were analyzed using U Mann-Whitney test (continuous variables). Correlations between quantitative variables were assessed with the Spearman correlation coefficient. Statistical significance was set at p<0.05.

Results: DAS28: mean 6.0 (SD=0.9); median 6.1 (IQR: 5.5 - 6.6); SDAI: mean 61.1 (SD=38.3); median 51.3 (36.8 - 76.4). No correlation was found between CFI and age, platelet count, CRP, RF, ACPA, DAS28 and SDAI as well as with the disease duration. But there was a strong positive correlation between CFI and PDUS results, rho = 0.71; p < 0.05. As expected, DAS28 and SDAI strongly correlated with inflammatory markers (ESR, CRP). The results showed, that CFI between 2.8 % in an equivalent of PDUS grade 1, CFI 8-50% of PDUS grade 2 and CFI > 50% of PDUS grade 3.

Conclusion: (although PDUS is a method used to assess synovial inflammation, through the determination of the synovial vascularization, its results, regardless of the scoring system employed, do not correlate with the systemic inflammation indicators, such as ESR and CRP or with the disease activity – which needs further explanation, i)the approximate equivalence of CFI and of PDUS scoring system is as follows: CFI > 50% - PDUS grade 3, CFI 8-50% - PDUs grade 2, CFI< 8% - PDUS 1, which confirms previously published research.

REFERENCE

Disclosure of Interests: None declared

UNITED STATES RHEUMATOLOGY PRACTICE-BASED REAL-WORLD EVIDENCE OF METHOTREXATE UTILIZATION AND RESPONSE TO THERAPY IN RHEUMATOID ARTHRITIS PATIENTS TREATED WITH INTRAVENTRIOUS GOLIMUMAB

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Background: AWARE (Comparative and Pragmatic Study of Golimumab IV Versus Infliximab in Rheumatoid Arthritis) is an ongoing Phase 4 comparator study designed to provide a real-world assessment of intravenous golimumab (GLM) and intravenous infliximab (IFX) in patients (pts) with rheumatoid arthritis (RA). The primary objective of AWARE is to assess the incidence of infusion reactions, the concomitant use of methotrexate (MTX) is also reported. The FDA approved label for GLM states that it is indicated for the treatment of patients with moderately to severely active RA in combination with MTX; however prospectively obtained real world evidence based data on the rate of GLM use without MTX has not been reported.

Objectives: Here we compare patient demographics, disease characteristics, response to therapy and discontinuation of GLM treated patients with and without concomitant MTX from an interim analysis (IA) of the AWARE study.

Methods: AWARE is a prospective, noninterventional, observational, multicenter 3-year study conducted in the US. RA pts (1,200 adults) were enrolled at the time of initiating treatment with GLM or IFX. All treatment decisions including MTX utilization are made at the discretion of the treating rheumatologist. Imputations of CDAI data were not performed at this IA. Data shown are mean ± standard deviation.

Results: 678 GLM pts were enrolled; of these 487 (71.8%) were GLM Plus-MTX and 191 (28.2%) were GLM No-MTX. Demographics are shown in the table. Response to therapy was assessed with CDAs and shown in the figure below. Overall, 92.6% of GLM Plus-MTX and 91.5% of GLM No-MTX pts had a baseline (BL) categorical CDAI disease activity of moderate or high, and 7.4% of GLM Plus-MTX and 8.5% of GLM No-MTX pts had a BL categorical CDAI disease activity of low or remission. Discontinuation from the study during the period of this IA was similar between the GLM Plus-MTX (173/487; 35.5%) and GLM No-MTX (64/191; 33.5%). 7.9% of GLM No-MTX pts reported leflunomide use.

Conclusion: At BL 28.2% of pts on GLM did not report concomitant MTX use. The demographics of the GLM Plus-MTX pts did not differ remarkably from GLM No-MTX pts. The reported early response to treatment, assessed by CDAI score after 3 months and 6 months was similar in the GLM Plus-MTX and GLM No-MTX groups. These preliminary IA data suggest that in a real-world rheumatology practice setting, use of GLM with or without concomitant MTX led to similar CDAI scores at 3 and 6 months in RA pts with predominantly moderate to high BL CDAI disease category.


MEDICATION NECESSITY AND CONCERN BELIEFS ARE DISTINCT, INTERACTIVE PREDICTORS OF TREATMENT ADHERENCE IN RHEUMATOID ARTHRITIS

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Background: Medication adherence is instrumental for the successful management of rheumatoid arthritis (RA) to a goal of remission. Awareness of medication necessity and concerns regarding its use influence adherence and respectively foster or undermine the achievement of treatment goals.

Objectives: We explored the unique and interactive roles of patient beliefs about the necessity of RA medications and concerns about them in predicting adherence to prescribed treatments.