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primary efficacy end point was the improvement of ASDAS-CRP. Secondary end points included ASAS 20, ASAS 40, ASAS 5/6, ASAS partial remission and BASDAI. Safety was evaluated during scheduled visits.

Results: 123 patients with active nr-axSpA were enrolled between April 19, 2014, and July 10, 2015. The mean age of the 123 nr-SpA patients was (25.3±5.9) years. The ASDAS-CRP and BASDAI decrease from 2.7±0.9 to 0.7±0.4, from 4.5±1.5 to 0.9±0.8, respectively between weeks 0 and 24. The patients achieved the ASDAS-CRP<2.1 was 96.7%. ASDAS-CRP major and important improvement were achieved by 41.4%, 79.8%, respectively at weeks 24. ASAS 20, ASAS 40, ASAS5/6 and ASAS partial remission were achieved by 75.0%, 54.8%, 64.5%, 89.3%, respectively at weeks 24. Yisaipu-treatment was associated with statistically significant improvements in all parameters, including BASFI, BASMI, PGA. PhGA, ESR and CRP concentrations. Most adverse events in the open-label phase were mild or moderate in severity.

Conclusions: Yisaipu was effective and well-tolerated during the 24-week study period and was associated with a significant improvement in the signs and symptoms of active nr-axSpA.

Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.3846

THU0385 ASSESSMENT OF RELATIONSHIP BETWEEN BELIEFS' ABOUT MEDICINES AND TREATMENT ADHERENCE IN ANKYLOSING SPONDYLITIS PATIENTS

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Background: Ankylosing spondylitis (AS) is a chronic disease requiring longterm treatment. Patients' beliefs about medicines and treatment may affect their treatment adherence and treatment success.

Objectives: In this study, we aimed to investigate the relationship between beliefs about medicines and treatment adherence in AS patients.

Methods: This cross-sectional study was conducted in a single tertiary rheumatology clinic. One hundred and fifty three AS patients were enrolled to the study. Socio-demographic and medical characteristics of the patients were recorded to a patient interview form. In order to evaluate the general and personal views of the patients about drugs, the Turkish Translation of the Beliefs about Medicines Questionnaire (BMQ-T) (Cinar et al in 2016) was used. According to this survey, the beliefs about medicines are composed of the following sections: Specific Necessity, Specific Concerns, General Overuse and General Harm. Medication adherence was assessed by using the Morisky Green Levine Medication Adherence Scale (MGLS) (1986). Adherence was measured on a scale of 0 to 4, in which higher scores represent lower medication adherence and vice versa. Patients who reported a score of 0 on the MGLS were classified as adherent. All other patients were classified as nonadherent. Categorical variables were compared with Chi-square test, while continuous variables were compared with independent samples t test. To evaluate potential risk factors for non adherence, logistic regression method was used.

Results: The mean age of the patients was 35.15±8.19 years. The mean time from first symptom (disease duration) was 10.0±6.1 years. The vast majority of the patients (n=145; 94.8%) were male. One hundred patients (65.4%) were using NSAIDs and 83 patients (54.2%) were using anti-TNF. According to the MGLS scores, 56 (36.6%) patients were compatible with treatment, and 97 patients (63.4%) were found to be incompatible with the treatment. As the BMQ-T-Specific Necessity scores increased, drug compliance was also increased (p=0.006), on the other hand, as the BMQ-T-Specific Concerns, BMQ-T-General Overuse and BMQ-T-General Harm scores increased, drug compliance was decreased (p=0.023, 0.002, <0.001, respectively). There were significant positive correlations between Specific Concerns (p=0.002), General Overuse (p=0.031) and General Harm (p=0.024) score levels with the increase in patients' BASDAI score. While there was significant correlation between the disease duration and the General Overuse scores in the negative direction (p=0.016), there was significant correlation between the disease duration and the Specific Necessity scores in the positive direction (p=0.002). As 1 unit increase in the BMQ-T-Specific Necessity score decreased the risk of treatment nonadherence by 0.38 fold, on the other hand, 1 unit increase in the BMQ-T-General Harm score raised the risk to 3.21

Conclusions: In our study, the belief of AS patients about the necessity of treatment they were using, found to increase treatment adherence, while harm potential of the treatment was decreasing the adherence. In other words, to enhance the treatment adherence of AS patients, it is essential to convince the patients about the necessity of treatment and relieve the anxiety they carry about potential adverse effects.

Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.4091

THU0386 USE OF BIOLOGICS AND NSAIDS IN TREATING PATIENTS WITH AXIAL SPONDYLOARTHRITIS IN THE US-BASED CORRONA PSORIATIC ARTHRITIS/SPONDYLOARTHRITIS (PSA/SPA) REGISTRY

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Background: Axial spondyloarthritis (axSpA) is a chronic inflammatory disease affecting the sacroiliac joints and spine. Treatment primarily consists of first-line nonsteroidal anti-inflammatory drugs (NSAIDs) and/or biologic therapy when disease activity persists despite NSAID therapy. Although many studies have evaluated the efficacy of these treatments, there are few studies that have characterized NSAIDs and/or biologic therapy among patients with axSpA in the United States.

Objectives: To characterize patients with axSpA treated with NSAIDs only, biologics only, or both NSAIDs and biologics at the time of enrollment in the US-based Corrona PsA/SpA Registry.

Methods: This study included all patients with axSpA diagnosed by the rheumatologist aged ≥18 years enrolled in the Corrona Registry between March 2013 and September 2016 who were treated with NSAIDs only, biologics only, or both NSAIDs and biologics at the time of enrollment (baseline). Patients fulfilled the Assessment of SpondyloArthritis international Society classification criteria. 1 Demographics, clinical characteristics, disease activity measures and treatment history were collected at enrollment and described for each group.

Results: As of September 2016, 359 patients with axSpA met the study inclusion criteria; at baseline, 224 patients (62.4%) were receiving NSAIDs (92 [25.6%] with NSAIDs only and 132 [36.8%] with both NSAIDs and biologics) and 135 patients (37.6%) were receiving biologics only. Baseline characteristics were similar across all treatment subgroups with regards to age, race and body mass index. Fewer females were treated with biologics (with/without NSAIDs) compared to the NSAIDs only group. At baseline, patients treated with NSAIDs or both NSAIDs and biologics were older, had longer duration of disease with worse disease activity (measured by ASDAS and BASDAI), functional impairment (BASFI and HAQ-DI) and had worse pain and fatigue compared to those treated with biologics only (Table 1). 88-96% of patients receiving biologics (with or without NSAIDs) had prior biologic use compared to only 25% of NSAIDs only group. Patients treated with biologics only reported decreased percentage of impairment while working, overall work impairment and activity impairment at baseline compared with patients treated with NSAIDs only and both NSAIDs and biologics.

Table 1. Baseline clinical and patient-reported characteristics of patients with axSpA in the Corrona PsA/SpA Registry stratified by NSAID and biologic use

Characteristics*	NSAIDs Only (n = 92)	Biologics Only (n = 135)	NSAIDs and Biologics (n = 132)
Age, years	48.6 (15.0)	46.1 (13.6)	48.1 (13.2)
White, n (%)	81 (91.0)	120 (93.0)	118 (92.9)
Male, n (%)	53 (58.9)	88 (65.7)	91 (70.5)
BMI, kg/m ²	29.4 (6.1)	29.7 (7.1)	28.7 (6.1)
Disease duration, years	18.3 (13.0)	16.1 (12.7)	19.2 (11.5)
History of prior csDMARD use, n (%)	23 (25.0)	55 (40.7)	47 (35.6)
History of prior biologic use, n (%)	24 (26.1)	130 (96.3)	117 (88.6)
ASDAS-CRP	2.1 (0.7)	1.9 (0.8)	2.1 (0.9)
BASDAI (0-10)	4.4 (2.5)	3.7 (2.5)	4.4 (2.6)
BASFI (0-10)	3.7 (2.9)	3.1 (2.8)	3.5 (2.9)
Patient pain (VAS 0-100)	49.9 (29.5)	37.3 (28.7)	44.4 (30.5)
Patient-reported fatigue (VAS 0-100)	47.1 (29.4)	45.7 (28.6)	49.9 (30.7)
Morning stiffness, n (%)	88 (95.7)	114 (84.4)	117 (88.6)
HAQ-DI (0-3)	0.7 (0.6)	0.5 (0.6)	0.6 (0.7)
WPAI-GH			
Absenteeism (% Work time missed)	5.3 (17.8)	5.5 (15.5)	7.5 (18.6)
Presenteeism (% Impairment while working)	28.7 (28.0)	21.7 (24.3)	29.4 (26.2)
Work Productivity (% Overall work impairment)	26.1 (26.4)	22.8 (25.7)	32.5 (37.7)
Activity Impairment (% Activity impairment)	41.0 (29.9)	31.4 (30.7)	39.8 (31.6)

ASDAS-CRP, Ankylosing Spondylitis Disease Activity Score using C-reactive protein; BASDAI, Bath Ankylosing Spondylitis Disease Activity Index; BASFI, Bath Ankylosing Spondylitis Functional Index; BMI, body mass index; HAQ, Health Assessment Questionnaire; VAS, visual analog scale; WPAI, Work Productivity and Activity

Impairment questionnaire; general health:
"All values are presented as "mean (SD)" unless otherwise stated. Current NSAID use included acetylsalicytic
acid, celecoxib, diclofence, ibuprofen, meloxicam, naproxen and others. Current biologic use included abatacept,
adalimumab, anakinra, apremilast, certolizumab pegol, etanercept, golimumab, infliximab, rituximab, secukinumab, tocilizumab and ustekinumab

Conclusions: About two-thirds of patients with axSpA were treated with NSAIDs (with or without biologics) and about three-fourths of patients were treated with biologics (with or without NSAIDs) at enrollment. Patients that were already treated with biologics without NSAIDs at enrollment showed better measures of disease activity and PROs compared with the other treatment groups. Future research will assess changes in clinical and disease characteristics over time by treatment subgroup.

[1] Rudwaleit M, et al. Ann Rheum Dis. 2009;68(6):777-783.

Acknowledgements: Corrona, LLC, has been supported through contracted subscriptions in the last 2 years by AbbVie, Amgen, BMS, Crescendo, Eli Lilly and Company, GSK, Horizon Pharma USA, Janssen, Momenta Pharmaceuticals, Novartis, Pfizer, Roche and UCB,

Disclosure of Interest: P. Mease Grant/research support from: Celgene, Novartis, AbbVie, Amgen, BMS, Lilly, Pfizer, UCB, Consultant for: Celgene, Corrona,