

**Results:** Prevalence of type D personality was 33% in FM patients, and 12% in controls. It was higher in the patients with FM (Odds ratio (OR) =3.612 confidence interval (CI) 95% (1.398–9.333)) ( $p<0.01$ ) compared with controls. Type D FM patients scored higher in tender point count (TPC), FIQ, HAQ, VAS-pain and all NHP subgroups except energy ( $p<0.01$ ) (Table 1). Type D personality was found as correlated with FIQ, TPC, HAQ, VAS-pain and NHP subgroups except energy ( $p<0.01$ ).

Table 1. The comparison of clinical variables and HRQoL between type D and non-type D patients

	Type D FM patients (n=33) mean ± standard deviation	Non-type D FM patients (n=67) mean ± standard deviation	p value
Pain (VAS,10 cm)	8.55±0.75	5.80±1.19	<0.00001*
Fatigue (VAS,10 cm)	4.45±3.18	4.01±3.54	0.549
TPC	15.72±2.33	12.91±1.84	<0.00001*
FIQ	86.27±8.43	64.07±11.47	<0.00001*
HAQ	1.24±0.80	0.52±0.51	<0.00001*
NHP-pain	89.17±10.73	64.33±14.07	<0.00001*
NHP-physical mobility	53.41±16.91	22.57±21.01	<0.00001*
NHP-energy	45.45±42.13	37.31±41.14	0.358
NHP-sleep	80.00±19.36	56.23±22.55	<0.00001*
NHP-social isolation	60.60±37.24	15.52±25.06	<0.00001*
NHP-emotional reactions	83.71±14.14	51.52±25.06	<0.00001*

HRQoL: Health-related quality of life, FM: Fibromyalgia, VAS: Visual analog scale, TPC: Tender point count, FIQ: Fibromyalgia Impact Questionnaire, HAQ: Stanford Health Assessment Questionnaire, NHP: Nottingham Health Profile. \* $p<0.01$  (significant).

**Conclusions:** Type D personality is prevalent among Turkish patients with FM, with a rate of 33%. It is associated with poor HRQoL regarding pain, physical mobility, sleep, and social and emotional functions. Based on our findings, assessment of personality characteristics of the patients with FM may hold the key for the treatment of the disease. Presence of type D personality should be taken into account in FM in order to develop new treatment strategies for the patients who have inadequate response to conventional therapies.

#### References:

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**Disclosure of Interest:** None declared

**DOI:** 10.1136/annrheumdis-2017-eular.1547

## Back pain, mechanical musculoskeletal problems, local soft tissue disorders

### AB0933 PREDICTIVE MODEL FOR SHOULDER PAIN USING CLINICAL AND EPIDEMIOLOGICAL VARIABLES

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**Background:** Shoulder pain is a very common complaint with poor prognosis and high recurrence. To evaluate the shoulder pain, anamnesis and physical examination are used, but a diagnosis of certainty is difficult. Clinical history and specific exploration maneuvers tend to be poorly correlated with the underlying problem. There are few studies that assess the predictability of shoulder pathology using patient characteristics and exploration.

**Objectives:** To assess if the combination of exploratory maneuvers and clinical data predicts the type of affection of the painful shoulder in a sensitive and specific way.

**Methods:** We conducted a prospective study with patients who attended to the Rheumatology Department of HUP La Fe by painful shoulder between February 2016 and January 2017, excluding those with known inflammatory diseases. A rheumatologist performed the anamnesis and the selected exploratory maneuvers: Jobe and Gerber test and palpation of the acromioclavicular joint. A second rheumatologist, blind to physical examination and medical history, performed the shoulder ultrasound scan. Biostatistic analysis was performed using software R version 3.3.2.

**Results:** 119 patients (66.4% women) with a mean age of 60±12.56 years and shoulder pain were collected. Time of pain evolution was 20.43±24.09 months and the right shoulder was the most affected one (71.4%). The association between the maneuvers of Jobe and the involvement of the supraspinatus (SE), as well as the Gerber maneuver with the affection of the subscapular were statistically significant. However the sensitivity and specificity of both maneuvers are very low, so that alone is not suitable to identify the affected tendon or the type of alteration. Thus, a predictor model (nomogram) of the most common shoulder pathologies (subacromiodeltoïd bursitis, tendinosis or SE tears) was developed using epidemiological and clinical examination variables.

**Conclusions:** Based on our results, the predictor model performed using epidemiological and clinical examination variables would be able to predict the

most frequent pathologies of the shoulder. Imaging tests have a certain delay time, and by applying this predictor model, a diagnosis of presumption could be established in primary care, giving the opportunity to institute an early treatment. In addition, patients could be referred more efficiently to the appropriate specialty (rheumatology, traumatology or rehabilitation), avoiding delays.

**Disclosure of Interest:** None declared

**DOI:** 10.1136/annrheumdis-2017-eular.6010

### AB0934 TREATMENT OF LATERAL EPICONDYLITIS WITH ESWT: A SHAM-CONTROLLED DOUBLE BLINDED RANDOMISED STUDY

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**Background:** Lateral epicondylitis is a term describing the clinical condition that causes pain and sensitivity in musculotendinous adhesion sites of the wrist extensor muscles originating from the lateral epicondyle of the humerus, resulting in repetitive stresses due to overuse (1,2).

**Objectives:** The aim of this study was to investigate the efficiency of extracorporeal shockwave therapy (ESWT) in the treatment of lateral epicondylitis as randomized, prospective, controlled and double blind.

**Methods:** 47 patients (35 women, 12 men) with lateral epicondylitis were included in the study. The mean age of patients was 45.94±10.46 years. Patients were randomized into two groups: active ESWT (n=22) and sham ESWT (n=25). Patients were randomly allocated to receive 1 session per week for 3 weeks of either sham or active ESWT.

Patients were evaluated before the treatment, and at the end of the first week, first month and third month after the last treatment session with Patient-rated Tennis Elbow Evaluation Questionnaire (PRTEE), Visual Analogue Scale (VAS) for pain assessment and physical examination of lateral epicondyle of the elbow with special clinical tests.

**Results:** Compared with pretreatment values in ESWT group, significant improvement was observed in all parameters after treatment. At the first week after the therapy significant improvement was observed in sham group but at the first and third month after the therapy no significant difference was found. In comparison of ESWT and sham over 3 months after the treatment, significant improvements were observed in ESWT group in all parameters.

**Conclusions:** there was a significant decrease in pain and a significant improvement in function following ESWT. Although there was a reduction in pain and improvement in function with sham treatment as well, this difference was not as significant as in active group.

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**Disclosure of Interest:** None declared

**DOI:** 10.1136/annrheumdis-2017-eular.6508

### AB0935 THE ROLE OF EPIDURAL INJECTIONS IN PATIENTS WITH CHRONIC SCIATICA: A REVIEW BASED ON THE EVIDENCE OVER THE PAST 5 YEARS

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**Background:** Among various modalities applied in the management of painful conditions of the spine, epidural injections (EI) are one of the most commonly utilized interventions. EI can be administered in the lumbar spine by either caudal (CEI), interlaminar (IEI), or transforaminal (TEI) approaches and various steroids have been used in these injections<sup>(1,2)</sup>. The purpose of EI is to provide analgesia for a varying duration, whilst making it easier for the patient to undergo a rehabilitation program during this time<sup>(1)</sup>.

**Objectives:** The aim of this review is to evaluate the efficacy of the different types of EI in patients suffering from chronic sciatica, based on the evidence published over the past 5 years.

**Methods:** Relevant studies were retrieved by searching PubMed, Medline, The Cochrane Library and UpToDate. Publications from 2012 to 2016 which specified the use of EI to treat chronic sciatica were considered, and all the studies selected were written in the English language only.

A total of 11 articles were gathered, of which 5 were excluded after analysis of their title and abstract. Of the 6 papers included in this study, 5 are systematic reviews and 1 is a meta-analysis of 10 randomized controlled trials.

The outcomes measured were improvement in pain and functional status. The Numeric Rating Scale (NRS) and Visual Analogue Scale (VAS) were the most commonly used baseline scales for pain evaluation. The Oswestry Disability Index (ODI) was the most used scale for the functional disability scoring system in the literature.