the fibromyalgia and rheumatoid arthritis, healthy blood donors ($p > 0.05$).

Conclusion In conclusion, our study suggest that there may exist an association between fibromyalgia and HBs-Ag. In addition, our data do not support the hypothesis that HCV infection may play a role in the pathogenesis of fibromyalgia.

SAT0136 CHEST EXPANSION AND SPIROMETRIC MEASURES IN PATIENTS WITH PRIMARY FIBROMYALGIA

¹S Ozgocmen, ²O Bolgen Cimen, ¹O Ardicoglu. ¹Physical Medicine and Rehabilitation, Firat University, Faculty of Medicine, Elazig; ²Physical Medicine and Rehabilitation, Mersin University, Faculty of Medicine, Mersin, Turkey

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Background Despite normal spirometric values patients with fibromyalgia had lower values of maximum inspiratory (MIP) and expiratory pressures (MEP) than matched healthy controls. Values of MIP and MEP reflect respiratory muscle strength, therefore low values have been explained by respiratory muscle weakness or dysfunction.

Objectives This study proposed to assess the relationship of chest expansion with maximal inspiratory (MIP) and expiratory pressures (MEP) in primary fibromyalgia (FM) syndrome.

Methods Thirty female patients, aged 22–52, who met the 1990 ACR [1] criteria for the classification of FM were examined and compared with 29 healthy, age and BMI matched female subjects (aged 24–50). Pulmonary function tests were assessed by a computerised spirometer. The maximum respiratory pressures were carried out by using a digital mouth-pressuremeter. Chest expansion measurements, spirometric values, MIP and MEP values of patients with primary FM have been compared with controls.

Results Patients with FM had lower chest expansion, MEP and MIP values with respect to the controls. Chest expansion correlated significantly with MIP and MEP values. There was no significant difference among groups in spirometric values.

Conclusion Our results indicate that patients with FM have impaired respiratory muscle strength and measurement of chest expansion may be an appropriate and practical method for evaluating respiratory muscle strength in patients with FM.

SAT0137 LONG-TERM OBSERVATION OF FIBROMYALGIA PATIENTS

L Szczepanski, C Stepniak, B Targonska-Stepniak. Department of Rheumatology, University Medical School in Lublin, Poland, Lublin, Poland

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Background

Objectives The objective of the study was to evaluate the natural course of fibromyalgia syndrome (FS) and to reveal if FS was not only the mask of another somatic disease.

Methods A questionnaire concerning the present health state was sent to 177 patients with FS diagnosed between 1991 and 1997. One hundred fifteen answers were received. Thirty three patients (28,7%) had no pain. In 19 (16,5%) cases the same intensity of pain and other subjective symptoms were noted. Majority of patients- 63 (54,8%) assessed their complaints as more intensive. Clinical and basic laboratory examinations were performed in 86 FS women, aged 39–70. They were asked about their present pain status, other complaints, mental status and their understanding of the matter of FS. Moreover, in all

cases the FIQ answers were obtained. In some cases additional tests were performed (X-rays, Schirmer's test, ANA, RF).

Results At examination only 5 patients (5,8%) had no pain in musculoskeletal system and felt very well; in the remaining 81 patients the features of active FS were noted. 43 patients (50%) described the pain as "awful" and "terrible", in 32 cases (37,2%) the pain was great or even insufferable. Less than 11 tender points (TPs) in 11 patients (12,8%), however in these patients other manifestations of FS were present (sleep disturbances, fatigue, ancillary symptoms). In the remaining 70 patients all ACR criteria for diagnosis of FS were still present.

Four patients (4,7%) fulfilled criteria for diagnosis of Sjögren's Syndrome (SS); ocular and oral dryness appeared later than widespread pain. There were no features of other connective tissue diseases in the remaining 82 patients. At examination other musculoskeletal disorders were observed in some cases: gonarthrosis (4 patients- 4,7%), coxarthrosis (6 patients- 7%), carpal tunnel syndrome (21 patients- 24,4%), enthesopathy (15 patients- 17,4%). The majority of FS patients (61- 70,9%) still felt suspicion of severe somatic disease and were anxious about the future; 44 patients (51,2%) believed, that careful hospital examination is necessary.

Conclusion FS remains active in most patients several years after the first diagnosis. The majority of patients feel poor or even worse, the remission of FS is uncommonly achieved and the results of treatment are still unsatisfactory. No serious chronic diseases were observed in those patients. The results confirm the high usefulness of ACR 1990 FS criteria in everyday clinical practice. In a few cases FS can be associated with subclinical course of SS.

SAT0138 SELF-REPORTED PAIN AND SLEEP QUALITY IN PATIENTS WITH FIBROMYALGIA

¹AE Corbin, ¹M Jaffe, ²J Moore, ²JP Young, ²LK LaMoreaux, ³DC Turk, ¹U Sharma, ⁴M Versavel. ¹CNS Clinical Development; ²Clinical Statistics, Pfizer Global R & D, Ann Arbor, MI, USA; ³Department of Anesthesiology, University of Washington, Seattle WA, USA; ⁴CNS Clinical Development, Pfizer Global R & D, Fresnes, France

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Background Chronic widespread pain and sleep disturbance are among the most common symptoms reported by patients with fibromyalgia (FM).

Objectives This study assessed the level of pain and sleep disturbance in FM patients using a daily pain and sleep quality diary, the Short-Form McGill Pain Questionnaire (SF-MPQ), and the Manual Tender Point Survey (MTPS).

Methods Patients recorded their levels of pain severity and sleep quality for approximately 7 days using an 11-point numerical rating scale (ranging from 0 = no pain/best possible sleep to 10 = worst possible pain/sleep, respectively). The SF-MPQ measured pain quality and severity (range 0–3) with 11 sensory and 4 affective descriptors, and pain severity using a 100 mm visual analogue scale (VAS). The MTPS assessed the presence of pain at each of 18 tender points corresponding to those specified by the American College of Rheumatology (ACR) 1990, and 3 control points. Patients rated the severity of pain upon palpation of each of the tender and control points on a 0–10 point scale (Tender Point Pain Intensity Score). These measures were administered to 529 patients diagnosed with FM using the ACR criteria during the baseline period of a clinical drug trial. The mean age was 48.6 years, 91.5% were female, and the mean duration of FM was 107.7 months.