activity, or more damage present the effect of radiological damage on physical function decreased. Using the derived linear regression models and the measure of a clinical relevant difference in HAQ-DI a clinical relevant increase in radiological damage for the modified Sharp score was calculated.

Results The clinical relevant increase in radiological damage was estimated to be about 10 or 20, for a DAS of 1 or 2 respectively. It was dependant on the activity of the disease and amount of existing joint damage.

Conclusion Estimating a clinical relevant increase in radiological progression, using the patient's perspective is possible. A conservative threshold of 10–20 for a clinical relevant increase (Modified Sharp score) can be used as a guideline. These results need replication in other patient cohorts.

THU0172 THE CORRELATION ANALYSIS OF FUNCTIONAL DISABILITY INDEXES WITH DISEASE ACTIVITY DETERMINANTS IN WOMEN WITH ACUTE RHEUMATOID ARTHRITIS

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Background Rheumatoid arthritis (RA) is a chronic inflammatory disease causing joint deformities and consequent functional disability.

Objectives The aim of this cross-sectional study was to assess the possible correlations between some determinants of (CRP disease activity such as Ritchie articular index (RAI), erythrocyte sedimentation rate (ESR), C-reactive protein) and the functional disability questionnaires in women with acute RA, aged between 50 and 65.

Methods The functional status of 52 women with acute RA, diagnosed according to modified ARA criteria were assessed by Health Assessment Questionnaire (HAQ) and Lee Functional Index (LFI). Ritchie Articular Index values were determined with joint examination, ESR and CRP with laboratory techniques in blood samples. The relations between these disease activity determinants and functional scores were assessed by correlation analysis.

Results A strong positive correlation was found between two functional indexes ($r = 0.87$, $p < 0.0001$). The significant correlations found between ESR, CRP and LFI ($r = 0.31$, $p < 0.01$; $r = 0.40$, $p < 0.001$, respectively), were stronger than the positive correlations determined between the same variables and HAQ ($r = 0.26$, $p < 0.05$; $r = 0.29$, $p < 0.05$, respectively). RAI exhibited stronger correlations with HAQ and LFI when compared with those of laboratory variables with HAQ ($r = 0.47$, $p < 0.01$; $r = 0.56$, $p < 0.001$, respectively).

Conclusion The most related disease activity determinants with examined functional disability levels in women with acute RA were observed to be RAI, CRP and ESR, consecutively. The prediction values of joint symptoms seemed to be more prominent when compared with laboratory variables.

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THU0173 GENETIC ANTICIPATION IN FAMILIAL RHEUMATOID ARTHRITIS

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Background Rheumatoid arthritis (RA) is a systemic inflammatory disease of connective tissue which is characterised by chronic progressing articular lesion and disturbances in immune system. Aetiology of the disease is still unknown. Nevertheless, the role of genetic factors in its determination is confirmed by multiple family and twins studies.

Objectives To determine if there is evidence for genetic anticipation in RA in multigenerational RA pedigrees.

Methods Age at onset and disease severity was compared within 26 parent/offspring pairs with RA.

Results The age at onset of RA was earlier in the offspring than in parents (26.3 ± 12.5 and 45.65 ± 14.0 correspondingly), and this difference is statistically reliable ($\delta < 0.01$). In couples aunts-cousins ($N = 6$) in multigenerational advanced age aunts fall ill (44.4 ± 15.9 and 25.0 ± 9.4 correspondingly) and the disease onset relating to age is also statistically reliable ($\delta < 0.02$). In these multigenerational RA pedigrees, the offspring had a tendency to more severe disease, despite shorter disease duration and younger age.

Conclusion These results suggest genetic anticipation occurs in RA, where the beginning of disease manifestation becomes earlier in the following generation.

THU0174 REACTIVE AMYLOIDOSIS IN PATIENTS WITH RHEUMATOID ARTHRITIS

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Background It has been known that reactive (secondary, AA) amyloidosis (RAA) is a major complication of rheumatoid arthritis and amyloidosis is still a main cause of death in rheumatoid arthritis (RA) patients. Diagnosis of amyloidosis is based on Congo red staining of amyloid deposits in tissue biopsies. The safe and simple examination is abdominal fat aspiration biopsy (AFAB).

Objectives The aim of the study was to investigate the positive rate of amyloid deposits in AFAB samples and to clarify whether the presence of amyloid deposits is correlated with the clinical features of patients.

Methods AFAB was performed in patients with established diagnosis of RA referred to our department during the period from 1996 to 2001.

Results Among 103 patients (15 males, 88 females) marked amyloidosis deposits were found in 34 (33%) cases. The incidence of amyloidosis was more frequent in male than female patients (53% male vs 29% female). Raised levels of creatinine (> 1.3 mg %) were found in 27% patients with amyloidosis and 3% without amyloidosis; proteinuria respectively in 35% with positive AFAB and 13% with negative AFAB results. There was no