chronic diseases. Most often PA is self-reported while measures of the aerobic capacity are more seldom measured in subjects with chronic pain.

**Objectives:** The present study aimed to explore the relationship between self-reported physical activity, aerobic capacity and knee OA.

**Methods:** A cross-sectional study of 1055 early RA patients was performed. Physical activity was measured using the Physical Activity Scale for Elementary School Aged Children (PASS-E). Aerobic capacity was assessed by using a submaximal bicycle test, the Ekblom-Bak test. Participants were classified as having knee OA if they met the ACR 2010 criteria for the diagnosis of knee OA and the self-reported information on occupational exposure to pesticides. The self-reported information on physical activity and exposure to pesticides was correlated with knee OA and the self-reported information on physical activity and exposure to pesticides was correlated with knee OA.

**Results:** The association between occupational exposure to pesticides and risk of RA was not observed. The association between physical activity and risk of RA was observed in a group of residents of the general population. Self-reported physical activity was coded as MPAmax if recommended levels of PA were reported (active on a moderate level ≥150 min/week (MPA) or on an vigorous level ≥75 min/week (VPA) or not). The Fear Avoidance Beliefs Questionnaire for PA (FABQ-PA, 0–24 best to worst) and for work (0–48 best to worst) were also assessed. The participants were classified as having knee OA if they met the ACR 2010 criteria for the diagnosis of knee OA and the self-reported information on occupational exposure to pesticides. The self-reported information on physical activity and exposure to pesticides was correlated with knee OA.

**Conclusions:** The association between occupational exposure to pesticides and risk of RA was not observed. The association between physical activity and risk of RA was observed in a group of residents of the general population.
Background: Recent evidence from epidemiological studies has suggested that reproductive factors may play an important role for rheumatoid arthritis (RA) development. An inverse association was reported in several studies between parity and risk of RA. Objectives: We investigated the association between parity and risk of anti-citrullinated peptide antibody (ACPA)-positive RA and ACPA-negative RA in the Malaysian population.

Methods: Data from the Malaysian Epidemiological Investigation of rheumatoid arthritis (MyEIRA) population-based case control study involving 902 female early arthritis (MyEIRA) population-based case control study involving 902 female early arthritis cases and 906 age and residential area-matched female controls were analysed. Parity history was assessed through a questionnaire. Parous women were compared with nulliparous women, by calculating odds ratio (OR) with 95% confidence intervals (CI).

Results: Our findings demonstrated that parity was significantly associated with decreased risk of developing RA in the Malaysian population (RA versus controls, 82% vs. 89%, OR 0.58, 95% CI 0.44–0.77, p<0.001). The association between parity and risk of RA was uniformly observed for ACPA-positive RA (OR 0.58, 95% CI 0.43–0.80, p<0.001) and ACPA-negative RA (OR 0.58, 95% CI 0.40–0.84, p<0.001) subsets, respectively. Compared with nulliparous women, the decreased risk was pronounced at the level of three and more live births for both ACPA-positive (OR 0.48, 95% CI 0.34–0.66, p<0.001) and ACPA-negative RA (OR 0.46, 95% CI 0.31–0.68, p<0.001) subsets.

Conclusions: Our data demonstrated that parity and level of three and more live births was associated with decreased risk of developing RA in the Malaysian population. The associated decrease risk was observed in both ACPA-positive and ACPA-negative RA subsets.

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Disclosure of Interest: None declared


SAT0740-HPR

SAT0741-HPR

COGNITIVE-BEHAVIOURAL AND SOCIAL FACTORS DO NOT PREDICT RECURRENT SECONDARY HEALTH CARE USE IN PATIENTS WITH FIBROMYALGIA: A LONGITUDINAL STUDY

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Background: Health care use in fibromyalgia (FM) is relatively high. Besides disease-related variables, cognitive-behavioural and social factors also predict future health care use.

Objectives: To identify cognitive-behavioural and social factors predicting recurrent secondary health care use in FM.

Methods: Data were drawn from a prospective cohort of recently diagnosed patients with fibromyalgia (n=199), spanning 18 months. Patients were recruited after receiving their diagnosis and protocolled treatment advice by a rheumatologist. Using self-report questionnaires, health care use, cognitive-behavioural (i.e. illness cognitions, pain coping, coping flexibility), social (i.e. validation by family, spousal responses to pain and well behaviour), sociodemographic and disease-related variables including comorbidities, severity of FM, and depressive and anxiety symptoms were collected. Primary outcome was recurrent secondary health care use at 18 months follow-up defined as the use or non-use for each of the following four categories of secondary health care: consultation with medical specialists, diagnostic procedures, admission to health care institutions, and multimodal treatment program. A patient was considered a recurrent secondary health care user, if secondary health care from at least one of the four categories was used in the past six months. Univariate and multivariate logistic regression models examined whether and which variables were predictors for recurrent secondary health care use. Internal validation was performed to correct for over-fit of the final multivariate model.

Results: Recurrent secondary health care use was lower than initial secondary health care use. Univariate analysis showed that having at least one comorbidity, depressive feelings, severe consequences of fibromyalgia, low personal control and a high severity of fibromyalgia predicted recurrent secondary health care use. In the multivariate model, having at least one comorbidity was the only remaining predictor for recurrent secondary health care use.

Conclusions: Our results suggest that the existence of comorbidities as communicated by the patient is the strongest warning signal for recurrent secondary health care use in FM. There seems no value in using cognitive-behavioural and social factors for early identification of patients with FM at risk for recurrent secondary health care use.

Disclosure of Interest: None declared


SAT0742-HPR

EUROPEAN LEAGUE AGAINST RHEUMATISM RECOMMENDATIONS FOR THE ROLE OF THE NURSE (EULAR-RN) IN THE MANAGEMENT OF CHRONIC INFLAMMATORY ARTHRITIS (CIA); RESULTS OF PATIENTS IN NORDIC COUNTRIES

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Background: The dissemination of the EULAR-RN in the management of CIA1 and to assess differences between individual Nordic countries.

Methods: A web-based survey was distributed using snowball sampling. Levels of agreement and application were assessed using a 0–10 rating scale (0=none, 10=full agreement/application). Reasons for disagreement with and barriers against applying each recommendation were sought. Differences between groups were protected using the Kruskal–Wallis Test.

Results: A total of 318 patients from Finland participated in the survey. Their mean age was 52.1 years (SD 15.6). 47% had completed secondary education, 25% only primary and one third tertiary education. The mean duration of the disease was 17.7 years (SD 9.0). The diagnosis of RA (63.5%), AS or PsA (29.8%, 6.7% respectively) and treated in general (45%), university (32%) or other hospitals. The median level of agreement was high, ranging from 8 to 10 in Finland