**AB0719**

**ASSOCIATION BETWEEN FIBROMYALGIA AND CHRONIC AUTOIMMUNE THYROIDITIS. RETROSPECTIVE OBSERVATIONAL DATA FROM A MONOCENTRIC ENDOCRINOLOGIST-RHEUMATOLOGIST COLLABORATIVE ANALYSIS**

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**Background:** Endocrine and metabolic imbalance conditions can affect the development of subjective abnormal perceptions within fibromyalgia (FMR). In the case of autoimmune thyroid disease (ATD), prolonged, clinically active states of impaired glandular function may be associated with an FMR-type condition. Less clear is the association between subclinical or rapidly well-controlled states of thyroid disease and the presence of FMR, since this assessment, although analysed in some previous studies, was usually performed on cohorts of subjects where the absence of any other confusing factors was not well defined.

**Objectives:** To evaluate the prevalence of subclinical autoimmune thyroid disease, or functionally controlled autoimmune thyroid disease, in a retrospective cohort of consecutively diagnosed patients suffering from fibromyalgia condition.

**Methods:** Over a 2 years period of time (2018-2019) a monocentric joint evaluation was activated with the endocrinology section of our healthcare area in order to consecutively monitor the subjects belonging to both specialist clinics. Patients with ATD were not infrequently firstly evaluated in the rheumatology clinics owing to FMR, who were considered to be in a subclinical condition or in full clinical remission no active disease or unstable endocrine function were addressed to the rheumatology clinics for assessment (Figure 1).

**Results:** Among the HT patients, 98% were women, aged between 28 and 64. Over the 2 years considered period of time, 65 subjects suffering from HT, showing no active disease or unstable endocrine function were addressed to the rheumatology clinics owing to FMR related symptoms. Among them, 55 (84.6%) had a confirmed diagnosis of FMR. Within this time, we recognized 239 consecutive diagnoses of FMR in subjects aging 22-76 years, with a number of 114 found to be devoid of factors (other than ATD) able to be responsible for chronic pain, except for a modest component of situational anxiety, or mild mood depression, not requiring any specific drug intervention. Among the 114, so called “primary” FMR, 35.6% showed to suffer from TCH, under confirmed clinical/hormonal remission, or in a preclinical, early stage of onset. Within the 125 subjects, carrying a FMR condition related to previous or associated fostering pathology, 26.8% were positive for current or previous thyroid problems. The prevalence of TCH, in the “secondary” FMR conditions differed significantly (p<0.01) from that of other FMR promoting diseases (eg connective tissue diseases, such as Sjogren Syndrome), except for moderate-severe mood disorders and/or anxiety, and the most severe chronic osteoarthritis conditions, showing a confirmed secondary neuropathy.

**Conclusion:** Although limited in number, the here reported data confirm the hypothesis of a significant association between ATD and FMR, even in subjects who were considered to be in a subclinical condition or in full clinical remission by the endocrinology colleagues. The physiopathology of this association needs further appropriate insights.

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**HIP INVOLVEMENT IN A COHORT OF EGYPTIAN JUVENILE IDIOPATHIC ARTHRITIS PATIENTS**

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**Background:** The hip joint is frequently involved in Juvenile Idiopathic Arthritis (JIA). It is more common with polyarticular, systemic and enthesitis-related forms and with severe uncontrolled disease. Chronic hip arthritis leads to irreversible joint damage with marked impairment of quality of life and functional limitation [1]. Unilateral or bilateral hip arthritis occurs in 30-50% of children with JIA [2].

**Objectives:** The aim of this study is to assess the pattern of hip involvement in a cohort of Egyptian JIA patients in terms of epidemiological aspects, JIA pattern, bilateralism, associated extra-articular manifestations, radiological features, treatment and prognosis.

**Methods:** We included 179 patients who fulfilled the International league against rheumatism criteria for JIA. Epidemiological, clinical, radiological, and therapeutic parameters were assembled and analyzed. Hip involvement was assessed using a semi-quantitative score of pain and tenderness for the hip, CARSH radiographic score of the hip, and Harris functional hip score. JADAS-27 was used for assessment of disease activity.

**Results:** We included 113 girls and 66 boys; with a female: male ratio of nearly 2:1. The age at onset mean was 8.8±3 years (8.9±2.9 for females and 8.6±3.1 for males). The mean age at the study time was 13.3±4.1 years. The disease duration mean was 4.5±2.9 years.

Clinically, 20.1% of the cases had hip involvement (12.8% unilateral and 73% bilateral), while by imaging, around 30.7% of the cases have hip involvement (19.6% unilateral and 11.2% bilateral). The mean age for cases with hip involvement was 14.1±4.3, compared to 12.9±4 among those with no hip involvement. The mean disease duration for those with hip arthritis (either clinical or by imaging) was 5.5±2.9 years, compared to 4.1±2.9 among those with no hip involvement (Figure 1).

**References:**


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