Results: RA patients had significantly higher serum level of YKL-40 than HC (92.1; 68.5-153.1 pg/ml vs 54.0; 41.7-83.2 pg/ml, p<0.01). Serum YKL-40 concentration was positively correlated with DAS 28 (r=0.5; p<0.05), erythrocyte sedimentation rate (r=0.5; p<0.05), CRP (r=0.8; p<0.05). SAA (r=0.6; p<0.05) and MMP-3 (r=0.6; p<0.05). We found no relationship between the level of YKL-40 and articular radiographic changes.

Conclusion: Elevated serum concentration of YKL-40 in early RA is associated with clinical and laboratory indicators of disease inflammatory activity and increased level of MMP-3 - an immunological marker of joint destruction.

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AB0838
ADHERENCE TO TREATMENT IN PATIENTS WITH RHEUMATIC PROFILE DEPENDING ON THE OPTION OF BASIC THERAPY

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Background: Treatment adherence is an important issue in actual clinical practice. As defined by the WHO, adherence to treatment is seen as the degree to which a patient's actions - taking medications, adhering to diet and other lifestyle interventions - correlate with following the doctor's recommendations. Treatment of patients with rheumatic diseases continues for many years, and often for life.

The identification of factors associated with adherence to therapy will justify the implementation of a number of measures in order to increase the effectiveness of treatment of patients. Biological disease modifying antirheumatic drugs (bDMARDs) therapy involves more frequent visits of patients to a doctor with close monitoring of their condition, which may have an impact on adherence to treatment in this group of patients.

Objectives: to assess adherence to treatment of patients with rheumatological profile, depending on the basic therapy option.

Methods: A survey of 84 patients was conducted: 48 (57.1%) women and 36 (42.9%) men, mean age 51 years (36.8; 60.3). Most patients are observed with a close monitoring of their condition, which may have an impact on adherence to treatment.

The patients were divided into two groups depending on the type of basic therapy: Group 1 (40 people) - patients receiving combined therapy with bDMARDs and methotrexate; Group 2 (44 people) - patients with methotrexate monotherapy.

The patients were divided into 2 groups depending on the type of basic therapy: Group 1 (40 people) - patients receiving combined therapy with bDMARDs and methotrexate; Group 2 (44 people) - patients with methotrexate monotherapy. Patients in group 1 received the following bDMARDs: 18 patients received sarilumab (200 mg sc once every 2 weeks), 22 people received secukinumab (150 mg sc once a month). All patients took methotrexate at an average dose of 17.5 (15.0; 20.0) mg / week and NSAIDs.

Adherence to treatment was assessed using the Morisky-Green scale. Each of the 4 points is evaluated according to the principle of answers to the question "yes-no," while the answer "yes" is estimated at 0 points, and the answer "no" - at 1 point. Patients who score 4 points are considered compliant (adherent); insufficiently committed and those at risk for the development of non-compliance - 3 points; not committed - 2 points or less.

Results: The majority of patients are seen by a doctor monthly - 42.5% (38) and once a quarter - 33.3% (28). Only 7.1% (6) people are observed once every 6 months and 4.8% (4) once a year, and 9.6% (8) are not observed at all. The frequency of medical observations in the 1st group of patients was higher than the 2nd group: 2nd group - 60.0% (24) and 23.6% (16), every 3 months - 40.0% (16) and 45.5% (20), respectively (p = 0.072 and p = 0.089), and only patients of the 2nd group were observed once every 6 months (4.5% - 2 people) and once a year (9.1% - 4 people). There were no statistically significant differences in adherence indicators.

When assessing adherence to treatment according to the Morisky-Green scale: only 37.5% (15) of patients in group 1 and 29.6% (13) in group 2 (p = 0.12) adhere to therapy. The adherence to treatment was enough for 12 and 22.7% (10) patients (p = 0.31), not adhering to treatment - 32.5% (13) and 47.7% (21) people, respectively (p = 0.39).

Conclusion: Thus, basic therapy bDMARDs with more frequent medical supervision does not affect adherence to treatment. Only about a third of patients are sufficiently committed and those at risk for the development of non-commitment - 3 points; not committed - 2 points or less.

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AB0839
A STUDY OF SERUM COMPLEMENT AND SERUM CALPROTECTIN LEVEL IN SYSTEMIC LUPUS ERYTHEMATOUS

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Background: Serum calprotectin, also known as MRP8/14 or S100A8/A9, has gained attention in recent years as a candidate biomarker in inflammatory diseases like SLE.1 Proteins of the complement pathway (serum C3 and C4) are linked to the pathogenesis of SLE and their levels have been measured as a means to assess the disease activity.2

Objectives:
[1] To study the relation of serum complement and serum calprotectin levels to disease activity in SLE
[2] To study the relation between serum complement and serum calprotectin levels.

Methods: Our study was a hospital based observational study conducted in a tertiary care centre in North-East India during the period of June 2019 to May 2020. A total of 102 patients of SLE were taken up for the study. Disease activity was assessed using SLEDAI-2K scores and serum calprotectin level was measured by ELISA. Serum C3 level was assessed by Nephelometric and C4 level by Turbidimetric immunassay. The statistical significance was fixed at 5% level of significance (p<0.05) for all analysis.

Results: Our study found a predominantly female population (Female: Male ratio 24.5: 1) with majority of the patients (49.02%) in the 30-39 years age group. Higher calprotectin levels were seen in patients with higher disease activity (SLEDAI) and this relation was statistically significant (r=0.84, p<0.001). There was significant negative correlation between disease activity (SLEDAI) and serum C3 (-r=0.35, p<0.001) and serum C4 (r=-0.4, p<0.001) level. There was a significant negative correlation between complement levels and serum calprotectin levels (r=-0.53, p<0.001).

Conclusion: We found a significant positive correlation between serum calprotectin level and disease activity with a significant negative correlation between complement level and disease activity in SLE patients. There was a significant negative correlation between serum complement and serum calprotectin levels. These findings suggest serum calprotectin levels could be a substantial addition in the existing diagnostic array of tools in assessing lupus disease activity.

REFERENCES:

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AB0840
DIAGNOSIS VALUE OF INTERLEUKIN 23 IN SPONDYLOARTHRITIS

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Background: Interleukin 23 (IL-23) is a pivotal pro-inflammatory cytokine in the Th17/IL-23 axis which became the center of attention in researches during these last decades, especially during spondyloarthritides (1).

Objectives: We aimed to study the diagnosis value of IL-23 serum in spondyloarthritides.

Methods: We conducted a case-control study, including 144 subjects divided into two groups: -G1: 72 patients meeting the Assessment of SpondyloArthritis International Society (ASAS) criteria for spondyloarthritis (SA) and -G2: 72 healthy controls matched for age and sex.

For each SA patient we collected the following parameters: BASDAI (Bath Ankylosing Spondylitis Disease Activity Index), ASDAS (Ankylosing Spondylitis Disease Activity Score), BASFI (Bath Ankylosing Spondylitis Functional Index), and BASRI (Bath Ankylosing Spondylitis Radiology Index).

The IL-23 level was measured using Enzyme-linked immunosorbent assay (ELISA).

Erythrocyte Sedimentation rate (ESR) and C-reactive protein (CRP) were also measured.

We performed a ROC analysis and computed the area under the curve (AUC) at IL-23 to diagnose SA patients.

Statistical analysis was performed using “IBM SPSS Statistics” software version 25.

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