respectively, of RA patients, without significant differences between mono and combination therapy. Considering baseline biomarkers predictive of LDA at 12 months FU, IL23 plasma levels ≥ 43.6 pg/ml arose as potent predictor [OR(95%CI):20.0(1.9-211.2)], whereas the best predictors of DAS-R were baseline BAFF plasma levels ≥ 563.3 pg/ml [OR(95%CI):3.9(1.1-14.3)] and IL23 plasma levels ≥ 43.6 pg/ml [OR(95%CI):4.1(1.1-15.2)]. In addition, Albumin levels ≥ 4.25 g/dl at 3 months FU, arose as a biochemical parameter predicting DAS-R [OR(95%CI):26.0(3.9-173.1)] and SDAI-R [OR(95%CI):5.3(1.2-22.9)] at 12 months FU.

Conclusion: IL23 and BAFF related inflammation are targets of IL6 blockade that significantly increases Albumin levels. High plasma levels of IL23 and BAFF at baseline represent biomarkers for LDA and DAS-R achievement in RA inflammation driven by IL6. Albumin after three months of therapy represents the strongest predictor of remission at 12 months.

Disclosure of Interests: Gianfranco Ferraccioli Speakers bureau: BMS, Roche, Barbara Tolusso: None declared, Florenzo Iannone Consultant for: F Iannone has received consultancy fees and/or speaker honoraria from Pfizer, AbbVie, MSD, BMS, Novartis, Lilly, UCB outside this work, Speakers bureau: F Iannone has received consultancy fees and/or speaker honoraria from Pfizer, AbbVie, MSD, BMS, Novartis, Lilly, UCB outside this work, Maurizio Rossini: None declared, Piercarlo Sarzi-Puttini Speakers bureau: Novartis, Marcello Govoni Paid instructor for: Pfizer, Roche, Speakers bureau: Pfizer, AbbVie, MSD, Roche, Eli-Lilly, Celgene, Sanofi, Janssen, Rosario Foti: None declared, Andrea Doria: None declared, Francesco Paolo Cantatore Speakers bureau: PFIZER, ROCHE, Giovanni Francesco Miceli: None declared, oscar massimiliano epis: None declared, Anna Laura Fedele: None declared, Antonio Carletto: None declared, Nicola Maruotti: None declared, Elena De Stefani: None declared, Giorgio Amato: None declared, Elisa Gremese Consultant for: AbbVie, BMS, Celgene, Janssen, Lilly, MSD, Novartis, Sanofi, UCB, Roche, and Pfizer, Speakers bureau: BMS, Speakers bureau: Roche, Speakers bureau: AbbVie, BMS, Celgene, Janssen, Lilly, MSD, Novartis, Sanofi, UCB, Roche, and Pfizer, Giovanni Lapadula: None declared

DOI: 10.1136/annrheumdis-2019-eular.5822

AB0254

NEUTROPHIL-LYMPHOCYTE RATIO AND PLATELET-LYMPHOCYTE RATIO IN PATIENTS RECEIVING ANTIRHEUMATIC THERAPY: RELATIONSHIP TO CLINICAL AND LABORATORY MARKERS OF DISEASE ACTIVITY

Iris Paola Guzmán-Guzmán¹, Oscar Zaragoza-García¹, José Eduardo Navarro-Zarza², Isela Parra-Rojas¹. ¹Universidad Autónoma de Guerrero, Facultad de Ciencias Químico Biológicas, Chilpancingo, Guerrero, Mexico; ²Hospital General de Chilpancingo, Departamento de Reumatología y Medicina Interna, Chilpancingo, Guerrero, Mexico

Background: The use of antirheumatic drugs is key to limit or prevent inflammation and joint damage in rheumatoid arthritis (RA). Recently, neutrophil-lymphocyte ratio (NLR) and platelet-lymphocyte ratio (PLR) has been considered markers of clinical activity in RA¹, however its relationship with serological and clinical parameters in patients receiving disease modifying drugs (DMARDs) therapy has been poorly evaluated.

Objectives: To analyze the association of NLR and PLR with serological and clinical parameters related to the clinical prognosis in RA patients with antirheumatic treatment.

Methods: A cross-sectional study was carried out in 150 women with RA (mean age of 45.5 years, and mean duration of disease of 8 years) all diagnosed according to ACR/EULAR 2010 criteria and receiving DMARDs and corticosteroids (Cs) therapy. The clinical features and DAS-28 score were analyzed by a rheumatologist professional. The NLR and PLR, as well as the erythrocyte sedimentation rate (ESR), high sensitivity C reactive protein (hsCRP) levels, rheumatoid factor (RF) and anti-cyclic citrullinated peptides (anti-CCPs) antibodies, were determined in the laboratory.

Results: The medical schemes prescribed commonly were: Methotrexate (MTX) monotherapy and MTX combination with chloroquine, sulfasalazine, leflunomide and Cs. The NLR was correlated with DAS28-ESR and DAS28-hsCRP scores. The values of NLR >2.2 (percent neutrophil/percent lymphocyte) were associated with hsCRP >12 mg/L (OR=2.45, $p=0.036$), DAS28-hsCRP >5.1 (OR=2.69, $p=0.07$) and with anti-CCPs-positive (>5 U/mL) (OR=1.57, $p=0.41$). While, PLR >10.4 (platelet count $\times 10^3$ /mm³/percent lymphocyte) was too associated (OR=3.72, $p=0.004$; OR=2.51, $p=0.08$; OR=2.96, $p=0.07$, respectively). Serological autoantibodies, when was considered in combination, the anti-CCPs/RF-positive patients showed a higher correlation between NLR and PLR with the parameters of clinical activity [tender joints count ($r=0.19$, $p=0.036$; $r=0.16$, $p=0.07$), swollen joints count ($r=0.15$, $p=0.08$; $r=0.14$, $p=0.11$) and DAS28-hsCRP score

($r=0.16$, $p=0.06$; $r=0.17$, $p=0.05$), however this correlation was higher in anti-CCPs-positive but RF-negative patients. In addition, was observed that patients with DMARDs combination and a greater number of drugs had increased NLR and PLR.

Conclusion: NLR and PLR could be considered markers for the evaluation of the clinical course and response to therapy DMARDs in RA patients.

REFERENCE

- [1] Sargin G, Senturk T, Yavasoglu I, et al. Relationship between neutrophil-lymphocyte, platelet-lymphocyte ratio and disease activity in rheumatoid arthritis treated with rituximab. *Int J Rheum Dis*. 2018. doi.org/10.1111/1756-185X.13400

Disclosure of Interests: None declared

DOI: 10.1136/annrheumdis-2019-eular.7762

AB0255

CLINICO- BIOLOGICAL PROFILE OF RHEUMATOID ARTHRITIS WITH PERIODONTITIS AND PORPHYROMONAS GINGIVALIS

Farida Mechid¹, Houde Hafirassou¹, Malika Meddad², Samir Salah³, Saïda Merad⁴, Nawel Bliidi¹, Chafia Makhloufi-Dahou¹. ¹Rheumatology, Mohamed Lamine Debaghine hospital, ALGIERS, Algeria; ²Periodontology, Mustapha Bacha Hospital, ALGIERS, Algeria; ³Immunology, Dely brahim, institut Pasteur, ALGIERS, Algeria; ⁴Bacteriology, Dely brahim, institut Pasteur, Algiers, Algeria, ALGIERS, Algeria

Background: The Periodontitis (PD) is currently recognized as a risk factor of occurrence of the rheumatoid arthritis (RA). The porphyromonas gingivalis (P.gingivalis) figure among the main germs incriminated in the occurrence of the PD. Previous studies have shown that antibodies to P. gingivalis are associated with anti-CCP antibody in patients with RA. However others studies have not demonstrated this association.

Objectives: The aim of this study was to seek for a possible association between clinico-biological parameters of the RA and the presence of the P.gingivalis.

Methods: We conducted a prospective study of 69 patients with early rheumatoid arthritis (≤ 2 years), naive of biotherapy. Smokers, diabetics, and subjects who received dental care and those who used antibiotics in the previous 6 months were not included. Periodontal status, demographic, clinical activity, and anticyclic citrullinated peptide antibodies (anti-CCP) parameters were determined. The P. gingivalis has been searched in patients with a PD. We sought to investigate an association between Rheumatoid disease activity (DAS28), anticyclic citrullinated peptide antibodies (anti-CCP) and P.gingivalis.

Results: The mean age of our patients was 40.75 ± 12.04 , the mean duration of the illness was 14.30 ± 6.76 months (extremes: 1-24 months). ACPA was detected in 88% of patients and the mean titre was 255.57 ± 409.78 .

43% of patients have presented a PD. The P.gingivalis has been detected in 59% of PD. The means DAS28 of patient with and without P.gingivalis is respectively 4.40 ± 1.32 and 4.15 ± 1.45 , and there was no significant difference ($p=0.65$). There was also no association observed between anti CCP and the presence of P.gingivalis (the mean titre of anti CCP was 249.47 ± 294.58 with P.gingivalis and 258.67 ± 93.48 without P.gingivalis, $p=0.74$).

Conclusion: This study showed that periodontitis is frequent in rheumatoid arthritis. More than half of our patients suffering of periodontitis were infected by porphyromonas gingivalis. Rheumatoid disease activity does not seem to be related to porphyromonas gingivalis. In addition there was no association between anti-CCP antibody and the presence of porphyromonas gingivalis.

REFERENCES

- [1] Johansson L, Sherina N, Kharlamova N, Potempa B, Larsson B, Israelsson L, Potempa J, Rantapää-Dahlqvist S, Lundberg K. Concentration of antibodies against *Porphyromonas gingivalis* is increased before the onset of symptoms of rheumatoid arthritis. *Arthritis Research* 18: 201.
- [2] Bello-Gualtero JM, Lafaurie GI, Hoyos LX et al. Periodontal Disease in Individuals With a Genetic Risk of Developing Arthritis and Early Rheumatoid Arthritis: A Cross-Sectional Study. *J Periodontol*. 2016;87(4):346-56.
- [3] Fisher BA, Cartwright AJ, Quirke AM, de Pablo P, Romaguera D, Panico S et al. Smoking, *Porphyromonas gingivalis* and the immune response to citrullinated autoantigens before the clinical onset of rheumatoid arthritis in a Southern European nested case-control study. *BMC Musculoskeletal Disord*. 2015;16:331.
- [4] Cheng Z, Meade J, Mankia K, Emery P, Devine DA. Periodontal disease and periodontal bacteria as triggers for rheumatoid arthritis. *Best Pract Res Clin Rheumatol*. 2017;31(1):19-30.

Disclosure of Interests: None declared

DOI: 10.1136/annrheumdis-2019-eular.3342