Validation of outcome measures and biomarkers

**AB1358 INFEKTIONSGERICHTE REPERTOIRE IN RHEUMATOID ARTHRITIS**

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Background: The incidence of infectious diseases in the RA ADAPThERA study by ELISA antibody screening and the differences in infectious distribution in active or low active disease patients was explored.

Methods: Sera from 88 naïve RA patients out of the ADAPThERA study cohort, disease duration <6 months, were tested for antibody titers against: Herpes simplex virus 1 and 2 (HSV1 +2 IgG and IgM), Helicobacter pylori (HP, IgG and IgG), Cytomegalovirus (CMV, IgG and IgM), Toxoplasmigaondi (Toxo, IgG), Adenovirus (IgG and IgM), Epstein Barr virus (EBV, IgG and IgM), and Parvovirus B19 (P-B19, IgG) were determined by using NovoLisa from NovaTec Immunodiagnostica GmbH, GERMANY. Borrelia (IgG and IgM) titers were determined by AESKULISA and confirmed by Western blot (AESKULBLOTS) by AESKU.DIAGNOSTICS GmbH and Co. KG, GERMANY.

Results: 82% RA patients were found to be positive for HSV1 +2 IgG (2% IgM positive), 8% for Adenovirus (IgG), 77% (IgG), and 1% (IgM). 99% for EBV-IgG (no IgM positive), 53% (IgG), and 26% (IgM) for CMV, 38% for HP-IgG and 15% for IgG and 79% for P-B19-IgG (3% IgM). 6% for Borrelia-IgM and 14% for IgG. A slightly increase was found for EBV sera positivity (99% IgG), compared to the normal population.

Conclusions: Limited evidence exists regarding the impact of the disease activity on the susceptibility for infections, possibly due to the close association of RA disease activity and therapy dependent dosage of immunosuppressive treatment. Still, some infections may present memory contact, presenting an epiphemeron. On the contrary, they might play an active role in RA pathophysiology.

Disclose of Interest: None declared


**AB1359 TRANSLATION, CULTURAL ADAPTATION AND VALIDATION OF THE ITALIAN VERSION OF THE BILD: THE BILDIT**


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Background: Evaluation of organ damage is one of the most important assessments in SLE patients; the SLICC/CDI is a physician-driven instrument widely used to assess organ damage in SLE. Patient-reported outcomes (PROs), self-assessments that are not being interpreted by a clinician, are gaining a central role as outcome measures. Among these, the Brief Index of Lupus Damage (BILD) is a patient-reported instrument for the assessment of organ damage in SLE.

Objectives: The aims of the present study are translation, cultural adaptation and validation of an Italian version of the BILD.

Methods: The process of translation and cultural adaptation followed published guidelines. The final version of the questionnaire (BILDit) was pretested in a group of 30 SLE patients to evaluate acceptability, comprehension and feasibility. The validity of the BILDit was evaluated by its administering to consecutive patients attending the outpatients clinic or the inpatients wards. The external validity was tested toward the SLICC/CDI scored by a physician blinded to the BILDit results. Correlation with other PROMs (FACIT, SF-36) was also tested. In a subgroup of 30 patients the questionnaire was administered twice at 2 weeks interval to assess their reliability.

Conclusions: While no CMV reactivation occurred in CMV-IgG negative cases, treatment regimen and low lymphocyte count were associated with CMV reactivation in CMV-IgG positive CTD cases.

Disclose of Interest: None declared


**AB1357 RISK FACTORS FOR CYTOMEGALOVIRUS REACTIVATION IN PATIENTS WITH CONNECTIVE-TISSUE DISEASE: SINGLE-CENTREPROSPECTIVE COHORT STUDY**

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Background: Cytomegalovirus (CMV) reactivation is one of serious opportunistic infections for immunosuppressed patients, therefore, identifying patients at risk for CMV reactivation is of importance. However, no prospective study about CMV reactivation in connective tissue disease (CTD) has been reported.

Objectives: To identify risk factors relevant with CMV reactivation in patients with CTD during remission-induction therapy.

Methods: Consecutive CTD cases who started immunosuppressive therapy from February until December 2017 were enrolled. Serum CMV-IgG was measured before the induction therapy, and subsequently, CMV pp65 antigen was monitored weekly. Patients were divided into 2 groups according to the presence or absence of CMV reactivation, and risk factors for CMV reactivation were analysed.

Results: Sixty six cases were enrolled. Mean age was 59.9±17.9 y/o, and female was 68.2%. The underlying diseases were following: anti-neutrophil cytoplasmic antibody-associated vasculitis 18, systemic rheumatoid arthritis 9, polyomyositis/dermatomyositis 9, IgG4-related disease 7, giant cell arteritis 6, and others 15. The antibody-associated vasculitis 18, systemic erythematosus 11, polymyositis/dermatomyositis and confirmed by Western blot (AESKULBLOTS) by AESKU.DIAGNOSTICS GmbH and Co. KG, GERMANY. Rheumatoid (IgG and IgM) titers were determined by AESKULISA and confirmed by Western blot (AESKULBLOTS) by AESKU.DIAGNOSTICS GmbH and Co. KG, GERMANY.

Results: 82% RA patients were found to be positive for HSV1 +2 IgG (2% IgM positive), 8% for Adenovirus (IgG), 77% (IgG), and 1% (IgM). 99% for EBV-IgG (no IgM positive), 53% (IgG), and 26% (IgM) for CMV, 38% for HP-IgG and 15% for IgG and 79% for P-B19-IgG (3% IgM). 6% for Borrelia-IgM and 14% for IgG. A slightly increase was found for EBV sera positivity (99% IgG), compared to the normal population.

Conclusions: Limited evidence exists regarding the impact of the disease activity on the susceptibility for infections, possibly due to the close association of RA disease activity and therapy dependent dosage of immunosuppressive treatment. Still, some infections may present memory contact, presenting an epiphemeron. On the contrary, they might play an active role in RA pathophysiology.

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