

**Methods** The frequencies of Th22, Th17, Th1 cells were determined by flow cytometry of peripheral blood by the chemokine receptors or/and the intracellular cytokine from a total of 25 patients with freshly diagnosed SLE and 13 age-/gender-matched healthy controls, and the values were compared with disease activity as determined by the Systemic Lupus Erythematosus Disease Activity (SLEDAI), serum complement factors (C3, C4), C-reactive protein (CRP), Erythrocyte sedimentation rate (ESR), Immunoglobulin (Ig), anti-double stranded (ds) DNA and anti-Smith (Sm) antibodies were measured.

**Results** We found increased Th22, Th17 cells in SLE patients compared with those in healthy controls. The elevated Th22 positive correlated with SLEDAI, ESR, IgG and IgA. Higher frequencies of Th22 and positive correlations between the percentage of Th22 cells and Revised Cutaneous Lupus Erythematosus Disease Area and Severity Index (RCLASI) were observed in patients with lupus skin disease.

**Conclusions** Our data suggests that both Th22 and Th17 may participate in the pathogenesis of SLE and Th22 may migrate to skin and promote inflammation in the lupus skin impairment.

#### 58 ALTERED PROPORTION OF TFH17 SUBSETS IN BRONCHOLALVEOLAR LAVAGE FLUID OF PATIENTS WITH INTERSTITIAL LUNG DISEASE CAUSED BY SYSTEMIC LUPUS ERYTHEMATOSUS

<sup>1</sup>Q Zhou\*, <sup>1</sup>J Su, <sup>2</sup>J Tian, <sup>3</sup>G Tang, <sup>1</sup>B Zhou. <sup>1</sup>Sichuan Academy of Medical Sciences Sichuan Provincial People's Hospital, Rheumatology and Immunology, Chengdu, China; <sup>2</sup>North Sichuan Medical College, Institute of Rheumatology, Nanchong, China; <sup>3</sup>Zunyi Medical University, Institute of Rheumatology, Zunyi, China

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**Background and aims** Interstitial lung disease (ILD) is common in systemic lupus erythematosus (SLE) patients. These patients tend to have large amounts of autoantibodies. Blood memory Tfh17 cells represent efficient B cell helper cells with distinct capacities to induce IgG and IgA secretion and to regulate immunoglobulin isotope switching. Recent study found overall Tfh17 cells are highly presented in peripheral blood of SLE patients. However, it is not clear how different subsets of Tfh17 cell are distributed in bronchialalveolar lavage fluid (BAL) and peripheral blood of SLE-ILD patients. The study is to determine the proportion of different Tfh17 cell subsets (activated Tfh17: CXCR3-CCR6+ICOS+PD-1++CCR7<sup>lo</sup>, quiescent: CXCR3-CCR6+ICOS-PD-1+CCR7<sup>int</sup> and CXCR3-CCR6+ICOS-PD-1-CCR7<sup>hi</sup>) among CD4+ T cells and levels of immunoglobulins in BAL and peripheral blood of SLE-ILD patients.

**Methods** 30 SLE-ILD patients were included. The lung disease were proved by high resolution CT scan. Patients underwent bronchoscopy and BAL were collected. Tfh17 cell profiles were determined using flow cytometry. Levels of immunoglobulins were detected by ELISA. Statistics were analysed by SPSS 22.0.

**Results** IgA and IgG levels were significantly higher in BAL than in blood. Activated Tfh17 in BAL was increased significantly ( $p=0.011$ ) and both subsets of quiescent Tfh17 cells were decreased ( $p<0.05$ ) compared to those in the blood. The activated Tfh17 was positively correlated with IgA level ( $r=0.871$ ,  $p=0.039$ ) in BAL and with IgG level ( $r=0.714$ ,  $p=0.047$ ) in blood.

**Conclusions** Activated Tfh17 is more abundant in BAL than in blood and switches from IgG correlation to IgA correlation, suggesting its role in the pathogenesis of SLE-ILD.

## Antiphospholipid syndrome

### 59 ANTIPHOSPHOLIPID SYNDROME: ABOUT 62 CASES

Z Aydi\*, Z Hadj Ali, I Rachdi, F Daoud, H Zoubeidi, B BenDhaou, F Boussema. *hôpital Habib Thameur, internal medicine, Tunis, Tunisia*

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**Background and aims** The antiphospholipid syndrome (SAPL) is an autoimmune and thrombogenic pathology that the diagnosis is based on clinical and biological criteria. It can be isolated (primary SAPL) or associated with another auto-immune disease (secondary SAPL). The purpose of this work is to finalise the epidemiological, clinical, biological, characteristic.

**Methods** We led a retrospective and descriptive study of the patients followed in the service of internal medicine for SAPL between January 1990 and April 2014.

**Results** We brought together 62 cases ( 61 women and 1 man). The average age was 41 years. The peripheral thromboses were observed in 51.6%. The obstetric accidents were found at 26 patients dominated by repeated abortion (35.5%) and fetal death in uterus (16.1%). The cardiac infringement was dominated by valvular disease in 9.6%. The lung demonstrations were represented by a pulmonary embolism in 32.25% and a lung arterial high blood pressure in 19.3%. The neurological infringement was present in 29%. The SAPL was primary in 32% and secondary in 68%. The CAPS was found in 2 cases. The SLE was present in 59.7%. The immunological balance sheet revealed aCL in 77.4%, anti- $\beta$  2GPI in 24.2% and anti-PT in 17.7%. a statistically significant correlation between the obstetric and vascular sign with the presence of aCL.

**Conclusions** The SAPL is an entity among which the knowledge and the understanding are in permanent evolution. It is necessary to think of it in front of any vascular recurrent thrombosis to a young subject.

### 60 SUBCLINICAL MYOCARDIAL DYSFUNCTION BY TISSUE DOPPLER ECHOCARDIOGRAPHY IN PRIMARY ANTIPHOSPHOLIPID SYNDROME: PRELIMINARY RESULTS

<sup>1</sup>J Carvalho\*, <sup>2</sup>A Lianza. <sup>1</sup>Brazil; <sup>2</sup>Hospital das Clinicas da Faculdade de Medicina da USP, Echocardiography, Sao Paulo, Brazil

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**Background and aims** To evaluate cardiac function in primary antiphospholipid syndrome (PAPS) patients using the echocardiogram with conventional and tissue Doppler evaluations.

**Methods** Nine PAPS patients (Sapporo criteria) were enrolled. Demographic and clinical data, co-morbidities, medication use and antiphospholipid antibodies were evaluated. All were asymptomatic regarding cardiovascular system. Exclusion criteria were history of heart failure, coronary artery disease, arrhythmia, valve abnormalities, age >70 years old, renal failure and severe hypertension. Seven age-, sex- and race-matched healthy subjects were included as control group.