SAT0472
ULNAR OCCLUSION IS A MARKER OF GLOBAL VASCULAR DAMAGE IN SYSTEMIC SCLEROSIS: RESULTS FROM A MONOCENTRIC PROSPECTIVE STUDY OF 99 PATIENTS
C.M. Yelnik1, D. Eloide2, G. Lamotte1, V. Sobanski1, S. Morel-Dubois1, H. Maillard3, M. Lambert1, P.-Y. Hatron1, D. Launay1, E. Hachulla1. 1Département de Médecine Interne et d'Immunologie Clinique, Centre National de Référence Maladies Systématiques et Auto-immunes Rares, European Reference Network on Rare Connective Tissue and Musculoskeletal Diseases Network, Univ. Lille, CHU Lille, 2Université Lille, CHU Lille, EA 2694 – Santé publique: épidémiologie et qualité des soins, Département de Biostatistique, Lille, France

Background: Macrovascular damages of systemic sclerosis (SSc) were poorly investigated, and the link between macrovasculopathy and microvasculopathy of SSc, cardiovascular disease, and mortality remain unclear.

Objectives: To evaluate if macrovascular damage in SSc predicts the occurrence of new digital ulcers (DU), cardiovascular events and mortality, and to further assess the relationship between micro and macrovascular damages in SSc.

Methods: All consecutive SSc patients followed in our SSc National Reference Centre, who underwent an arterial doppler ultrasonography (aDUS) of the upper limbs, were included and prospectively followed up until October 2017. Inclusion criteria were: 1) adults; 2) a diagnosis of SSc according to 2013 ACR/EULAR criteria; 3) aDUS performed in our vascular exploration department.

Results: Ninety-nine SSc patients were included. Median follow-up duration was 35 (IQR, 21 to 39) months. Macrovascular damages mainly affected ulnar arteries, with ulnar artery occlusion (UAO) in 28 (28.3%) patients. DU occurred in 26 (27.1%) patients, new cardiovascular event in 10 (10.4%) with ulnar artery occlusion (UAO) in 28 (28.3%) patients (bilateral 60.7%). New limbs, were included and prospectively followed up until October 2017. Inclusion criteria were: 1) adults; 2) diagnosis of SSc according to 2013 ACR/EULAR criteria; 3) aDUS performed in our vascular exploration department.

Results: Ninety-nine SSc patients were included. Median follow-up duration was 35 (IQR, 21 to 39) months. Macrovascular damages mainly affected ulnar arteries, with ulnar artery occlusion (UAO) in 28 (28.3%) patients. DU occurred in 26 (27.1%) patients, new cardiovascular event in 10 (10.4%) with ulnar artery occlusion (UAO) in 28 (28.3%) patients (bilateral 60.7%). New cardiovascular events included: heart failure, cardiac infarction, coronary artery disease (CAD), pulmonary arterial hypertension (PAH), acute coronary artery disease (CAD), pulmonary arterial hypertension (PAH), acute respiratory distress syndrome, acute coronary artery disease (CAD), pulmonary arterial hypertension (PAH), acute respiratory distress syndrome, acute respiratory distress syndrome, and pulmonary arterial hypertension (PAH).

Conclusions: Our study confirms that macrovascular damages are frequent in SSc patients and mainly affect ulnar arteries. Interestingly, UAO was associated with markers of microvascular diseases, but not with markers of cardiovascular diseases.

Disclosure of Interest: None declared


SAT0473
CLINICAL AND ECHOCARDIOGRAPHIC ASSOCIATES OF ALL-CAUSE MORTALITY AND CARDIOVASCULAR OUTCOMES IN PATIENTS WITH SYSTEMIC SCLEROSIS
S.E. van Wijngaarden1, M. Boonstra1, B. Bloem1, D. Cassandi2, F.C. Tanner2, S. Jordan3, O. Distler4, V. Delgado5, J.J. Bax1, J.K. de Vries-Bouwstra2, N. Ajmone Marsan1, V.K. Jager1, E. Siegert4, E. Hachulla5, P. Airò4, G. Valentini4, M. Matsu- Cesareo2, O. Distler4, F. Cozza2, Y. Alianore2, M. Li11, M. Tiley11, U.A. Walker11 on behalf of EUSTAR co-authors. 1University Hospital Basel, Basel, Switzerland; 2University Hospital Charité, Berlin, Germany; 3Université de Lille, Lille, France; 4Spezialklinik, Brescia; 5University of Campania, Naples; 6University of Florence, Firenze, Italy; 7University Hospital Zurich, Zurich, Switzerland; 8University of Padova, Padova, Italy; 9Santé publique: épidémiologie et qualité des soins, Centre, who underwent an arterial doppler ultrasonography (aDUS) of the upper limbs, were included and prospectively followed up until October 2017. Inclusion criteria were: 1) adults; 2) diagnosis of SSc according to 2013 ACR/EULAR criteria; 3) aDUS performed in our vascular exploration department.

Results: Ninety-nine SSc patients were included. Median follow-up duration was 35 (IQR, 21 to 39) months. Macrovascular damages mainly affected ulnar arteries, with ulnar artery occlusion (UAO) in 28 (28.3%) patients. DU occurred in 26 (27.1%) patients, new cardiovascular event in 10 (10.4%) with ulnar artery occlusion (UAO) in 28 (28.3%) patients (bilateral 60.7%).

Conclusions: Our study confirms that macrovascular damages are frequent in SSc patients and mainly affect ulnar arteries. Interestingly, UAO was associated with markers of microvascular damages, but not with markers of cardiovascular diseases.

Disclosure of Interest: None declared


SAT0474
RACIAL DIFFERENCES IN SSc DISEASE PRESENTATION: A EUROPEAN SCLERODERMA TRIALS AND RESEARCH GROUP STUDY
V.K. Jager1, E. Siegert2, E. Hachulla3, P. Airò4, G. Valentini2, M. Matsu-Cesarèo2, O. Distler4, F. Cozza2, Y. Alianore2, M. Li1, M. Tiley1, U.A. Walker1 on behalf of EUSTAR co-authors. 1University Hospital Basel, Basel, Switzerland; 2University Hospital Charité, Berlin, Germany; 3Université de Lille, Lille, France; 4Spezialklinik, Brescia; 5University of Campania, Naples; 6University of Florence, Firenze, Italy; 7University Hospital Zurich, Zurich, Switzerland; 8University of Padova, Padova, Italy; 9Santé publique: épidémiologie et qualité des soins, Centre, who underwent an arterial doppler ultrasonography (aDUS) of the upper limbs, were included and prospectively followed up until October 2017. Inclusion criteria were: 1) adults; 2) diagnosis of SSc according to 2013 ACR/EULAR criteria; 3) aDUS performed in our vascular exploration department.

Results: Ninety-nine SSc patients were included. Median follow-up duration was 35 (IQR, 21 to 39) months. Macrovascular damages mainly affected ulnar arteries, with ulnar artery occlusion (UAO) in 28 (28.3%) patients. DU occurred in 26 (27.1%) patients, new cardiovascular event in 10 (10.4%) with ulnar artery occlusion (UAO) in 28 (28.3%) patients (bilateral 60.7%).

Conclusions: Our study confirms that macrovascular damages are frequent in SSc patients and mainly affect ulnar arteries. Interestingly, UAO was associated with markers of microvascular damages, but not with markers of cardiovascular diseases.

Disclosure of Interest: None declared

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Background: Genetic and environmental factors play a significant role in systemic sclerosis (SSc). African Americans are known for a higher SSc incidence, an earlier age of onset, and a greater frequency of interstitial lung disease and pulmonary hypertension (PH) compared to white patients. Data on blacks mostly stem from African American studies and SSc studies in Asians are mostly from outside Asia and lack direct comparison with other racial groups.

Objectives: We aimed to evaluate differences of SSc presentations between white, Asian and black patients.

Methods: Characteristics of self-reported white, Asian or black SSc patients from the EUSTAR cohort were compared across racial groups; survival and multivariable regression analyses were used to adjust for age, sex, disease duration and antibody status.

Results: 9162 white, 341 Asian and 161 black patients were included. Of the Asian patients 208 stem from within Asia and 133 from 34 centres outside Asia; of the black patients 65 stem from within Africa and 116 from 35 centres outside Africa.

Asian and black patients were on average 10 years younger than white patients (p<0.001). Black patients developed the first non-Raynaud’s phenomenon (RP) feature of SSc faster than Asian and white patients (all p<0.01; figure 1) also after adjustment for hazard ratio (HR) [blacks] 1.4, p<0.001; HR[Asians] 1.1, p=0.13 vs whites). Among ANA specificities, ACA predominated in white patients (whites: 40%, Asians: 16%, blacks: 10%; p<0.001) and Scl-70 in Asian patients (whites: 34%, Asians: 46%, blacks: 32%; p<0.001). The prevalence of diffuse skin involvement was similar in Asian (28%) and white patients (27%), but more common in black patients univariately (59%; p<0.001); however in multivariable analysis Asian patients were less likely to have diffuse SSc than white patients (OR 0.6, p=0.001) while black patients were more likely (OR 2.9, p<0.001).

The prevalence of PH (defined as PAPsys >40 mmHg as estimated by echocardiography) was similar in the three groups (whites: 13%, Asians: 17%, blacks: 14%; p=0.10); however multivariately, Asians were more likely to have PH (OR [Asians] 2.5, p=0.001, OR[black] 1.5, p=0.13 vs whites). Asians had a higher prevalence of an impaired diffusing capacity for carbon monoxide (DLCO<80% of predicted; 84%) than black (72%) or white patients (69%, p<0.001) also in multivariable analysis (OR [Asians] 3.0, p<0.001, OR [blacks] 1.2, p=0.36 vs whites). Both, Asians (43%) and black patients (58%), had a higher prevalence of a reduced forced vital capacity (FVC<80% of predicted) compared to white patients (23%, p<0.001) univariately and multivariably (OR [Asians] 2.4, p<0.001, OR [blacks] 4.0, p<0.001 vs whites).