and 25 (49%) paediatric patients had localised scleroderma (p<0.001). We studied the remaining patients (adults: n=137, juvenile: n=28) who had systemic pattern. Male/female ratio, median follow-up duration, familial history of chronic inflammatory diseases and the frequency of sclerodactyly, digital ulcers, Raynaud phenomenon, arrhythmia/heart failure and gastrointestinal involvement were similar between two groups (table 1). The frequency of interstitial lung disease, pulmonary artery hypertension, and serum ANA positivity were significantly more common in the adult onset group. Whereas joint and muscle involvements were significantly more common among juvenile onset patients. DMARD use was significantly more common in the juvenile group while the use of vasodilators was more frequent among adults.

Conclusions: Our results are online with previous reports: juvenile onset patients seem to have a milder form of disease. Major organ involvement as defined interstitial lung disease and pulmonary artery hypertension was more common among adult onset patients. On the other hand, as expected, joint involvement and myopathy were major causes of morbidity in the juvenile group. Contrary to that previously reported, cardiac involvement was not common in the juvenile group.

REFERENCES:

Disclosure of Interest: None declared

AB0765 DEVELOPMENT AND ASSESSMENT OF A STRUCTURED TRAINING PROGRAM FOR PATIENTS WITH SYSTEMIC SCLEROSIS
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Background: Structured patient education programs are a key element of patient care in many chronic diseases. They are often based on the Stanford University chronic disease self-management program and aim to empower patients and to improve compliance and coping abilities. However, compliance in every condition self-management education programs yield the expected benefit.1

Objectives: To develop a structured patient education program for SSc patients and to prove training-specific effects on patients’ quality of life and disability.

Methods: We developed a structured patient education program. The content of the program was created by a team of rheumatologists and dermatologists. The program consists of three modules focusing on general knowledge about the disease, gastrointestinal involvement, digital ulcers (DU), skin and wound care and a patient diary on disease symptoms. Patients were either included in the intervention or in the control group. Disease symptoms and severity as well as clinical parameters were assessed at baseline (intervention and control), at the follow-up visit at month 3 (intervention only) and at the final follow-up visit at month 6. In the intervention group satisfaction with the education program was analysed.

Primary outcome measures were SHAQ, SF-12, BFI, SHAQ DU. Secondary outcome measure was the satisfaction survey. For comparisons between different times analysis of variance for repeated measures was used. For description of cohorts Mann-Whitney Wilcoxon test was used.

Results: 58 SSc patients were included, 27 received the educational program (intervention group) and 31 patients served as a control group. Both groups were matched regarding demographics and disease subtype. Incidence of DUs was significantly higher in patients from intervention group resulting in a more frequent use of vasodilators. However, no significant effects on quality of life after the intervention were observed. One reason for this finding might be the disease duration (mean 11.5 years). This needs to be further analysed in a consecutive study considering patients with shorter disease duration.

REFERENCE:

Disclosure of Interest: None declared

AB0766 INITIAL CHARACTERISATION OF WOMEN WITH BREAST IMPLANTS IN A GROUP OF PATIENTS WITH SYSTEMIC SCLEROSIS REFERRED FOR AUTOLOGOUS HSCT
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Background: The causal relationship between breast implants (BI) and systemic sclerosis (SSc) is still strongly contested.

Objectives: To add further input to this medical controversy, we studied the initial clinical characteristics of patients with breast implants and systemic sclerosis that are referred to our centre for autologous hematopoietic stem cell transplant.

Methods: From 163 patients, with the diagnosis of systemic sclerosis (SSc), limited SSc, CREST. Morphea or scleroderma sine scleroderma, referred to our centre for autologous hematopoietic stem cell transplantation, 132 were found to be females. To identify those with breast implants (BI) or have a history of breast implants, we performed a systemic chart review for all patients. Once the patients with actual breast implant devices or have history of breast implants were identified, all patients were contacted to check the type of their breast implants (silicone vs saline), the year of insertion, the local complications, whether they were removed or replaced and the year of removal and replacement, and the type of replacement if applicable. Clinical and biological data were collected for all patients and were compared between those who have breast implants or history if breast implants and those who do not have.

Results: From 132 patients with SSc or SSc variants, thirteen had history of BI (9.8%). In 12 of the 13 breast augmentation therapy preceded the development of SSc, with median time between BI insertion and the emergence of initial symptoms of SSc of 12 years (range 7–29). The remaining patient showed acceleration of her disease after BI surgery. Surprisingly, in all 12 patients for whom we could know the type of initial implants, the prostheses were saline. When we compared the clinical characteristics of those with BI and those without. Patients with BI appeared to have higher age (mean 49.95 vs 44.42 years, p<0.012, shorter time from initial symptoms to diagnosis (mean 4.76 vs 12.24 months, p<0.001), more frequently positive ANA (13/13 vs 89/114, p=0.06) and more frequently positive anti RNA polymerase III (7/10 vs 20/78, p<0.004).

Conclusions: Our data may support the hypothesis of a possible association between BI and SSc. Furthermore, these results raise questions regarding the safety of saline breast prosthesis. Finally, our finding may indicate a possible difference in the initial characteristics of SSc patients with BI and those without.

Disclosure of Interest: None declared

AB0767 EFFICACY OF SUBCUTANEOUS TOCILIZUMAB IN PATIENTS WITH RHEUMATOID ARTHRITIS AND SYSTEMIC SCLEROSIS OVERLAP SYNDROME
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Background: Systemic sclerosis (SSc) is a connective tissue disease that develops sclerotic changes in the skin and visceral organs. SSc is a disease of uncertain etiology, characterized by fibrosis of skin, subcutaneous, cardiac, gastrointestinal, and renal complications contribute to patient morbidity and decreased survival.1 And patients present with stiffness of the limbs because of sclerosis and joint swelling in the skin and periartricular connective tissues. Interleukin-6 (IL-6) is a pleiotropic factor that plays a major role in inflammation; furthermore, IL-6 overexpression and pathogenicity in SSc have been demonstrated.2 IL-6 expression is reportedly high in both the skin and serum of SSc patients,3 and its elevation depends on the skin score. And it is a candidate factor that can reproduce the pathological conditions of SSc as well as RA.

Objectives: We report the cases of rheumatoid arthritis (RA) patients with SSc who was administered anti-interleukin-6 receptor antibody tocilizumab (TCZ).

Methods: Two RA with refractory SSc patients were administered tocilizumab at 162 mg/kg twice a month for 12 months. RA disease activity is evaluated by DAS28-ESR and CDAI. Skin condition of SSc is evaluated by pinching the skin according to the modified Rodnan total skin score (mRTSS).

Results: They were both female, and age at the time of SSc diagnosis was 74 (patient 1) and 51 (patient 2) years old. The time lapse since SSc diagnosis was at first visit and 14 years, respectively. And it since RA diagnosis was 14 years and 6 years, respectively. Tocilizumab was administered at 162 mg every 2 weeks, which is equal to the dosage used for RA. Administration of prednisolone at 5 mg/day and DMARDs were continued. Overall, TCZ was well tolerated, and both patients experienced a general improvement in coping with normal daily activities. During the 12 month tocilizumab therapy, both RA disease activity and mRTSS decreased. The patient global assessment improved by 70 (75 to 5) and 44 (48 to 24) in patients 1 and 2 in 12 months, respectively. In RA disease activity, DAS28 decreased from 5.66 to 1.73 in 12 months in patient 1 and 7.14 to 4.43 in