Conclusion: Our study showed a high risk for misdiagnosis for patients with MCTD. Phenotype conversion was a very rare event. As a multi-organ disease, MCTD required prolonged (combined) immunosuppressive therapy to achieve remission. The establishment of an international registry with longitudinal data from observational multi-centre cohorts might represent a first step to address the many unmet needs of MCTD.

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AB0412

LIPID PROFILE IN IIM PATIENTS AND ITS ASSOCIATION WITH DISEASE ACTIVITY, DURATION, AND GLUCOCORTICOID TREATMENT

S. Oreska^{1,2}, H. Štorkánová^{1,2}, M. Špiritović^{1,3}, B. Heřmáňková³, M. Vrablík⁴, K. Pavelka^{1,2}, L. Šenolt^{1,2}, H. Mann^{1,2}, J. Vencovsky^{1,2}, M. Tomčík^{1,2}. ¹Institute of Rheumatology, Department of Rheumatology, Prague, Czech Republic; ²1st Faculty of Medicine, Charles University, Department of Rheumatology, Prague, Czech Republic; ³Faculty of Physical Education and Sport, Charles University, Department of Physiotherapy, Prague, Czech Republic; ⁴General University Hospital and 1st Faculty of Medicine, Charles University, 3rd Department of Internal Medicine, Prague, Czech Republic

Background: Systemic inflammation, limited mobility, and glucocorticoid treatment in idiopathic inflammatory myopathies (IIM) can have a negative impact on intermediate metabolic pathways, especially on lipid metabolism.

Objectives: The aim of this study was to assess the differences in the lipid profile of IIM patients and healthy controls (HC) and the association with disease-specific features.

Methods: 133 patients with IIM (106 females; mean age 60.3; disease duration 2.2 years; DM 47 / PM 41 / IMNM 45) and 133 age-/sex-matched HC (106 females, mean age 60.2) were included. Patients with DM and PM fulfilled the Bohan/Peter criteria for PM/DM; patients with IMNM fulfilled the ENMC criteria. Levels of selected parameters of lipid metabolism were measured in sera. In IIM patients, disease activity, damage, and muscle involvement were evaluated (MITAX, MDI, MMT-8); comorbidities and current treatment were recorded. Data are presented as median.

Results: Several differences in disease activity, the dose of glucocorticoids, prevalence of comorbidities, and serum lipid levels were observed in IIM compared to HC, and among the three subtypes of IIM; the most significant changes were observed in IMNM. All the differences in lipid profile between IIM and HC, as well as the correlations of lipid profile parameters with disease-specific features in IIM patients, are demonstrated in the table 1.

Conclusion: We have observed significant alterations in serum lipid parameters in our IIM patients compared to healthy age-/sex-matched individuals. Differences were also found among the three subtypes of IIM. These alterations

were associated with laboratory parameters of disease activity and the current dose of corticosteroids.

Table 1. Lipidogram in IIM patients compared to healthy controls

Parameter of lipidogram, median	IIM (n = 133)	DM (n = 47)	PM (n = 41)	IMNM (n = 45)	HC (n = 133)	p-value IM-HC; DM-HC; PM-HC; IMNM-HC
TC (mmol/L);	5.79	5.36	5.65	6.3	5.14	<0.001; 0.135; 0.040; <0.001
TG (mmol/L);	2.02	1.91	1.88	2.27	1.28	<0.001; <0.001; 0.002; <0.001
LDL-C (mmol/L);	3.13	2.95	3.12	3.58	2.82	0.005; 0.436; 0.131; <0.001
Apo-B (g/L);	1.06	1.02	0.98	1.26	0.91	<0.001; 0.160; 0.017; <0.001
Non-HDL-C (mmol/L);	4.4	4.25	4.15	5.1	3.9	<0.001; 0.262; 0.040; <0.001
Lp(a) (g/L);	0.1	0.1	0.1	0.12	0.15	0.098; 0.733; 0.242; 0.032
HDL-C (mmol/L);	1.122	1.13	1.18	1.36	1.2	0.913; 0.917; 0.503; 0.928
Apo-A (g/L);	1.7	1.76	1.75	1.68	1.8	0.073; 0.782; 0.267; 0.025
AI (log(TG/ HDL-C));	3.85	3.9	3.85	3.7	3.15	0.003; 0.425; 0.071; 0.002

Significant correlations of lipid profile parameters and disease-specific features in all IIM patients (n=133)

Correlated parameters	Spearman's r	p-value	Correlated parameters	Spearman's r	p-value
TC: Disease duration; LD; PED; Age; CK; Myoglobin	-0.322; 0.343; 0.292; 0.193; 0.198; 0.249	<0.001; <0.001; <0.001; 0.027; 0.025; 0.007	non-HDL-C: Disease duration; LD; BMI; CK; Myoglobin; PED	-0.303; 0.322; 0.202; 0.214; 0.270; 0.275	<0.001; <0.001; 0.027; 0.015; 0.003; 0.002
TG: Disease duration; PED; BMI	-0.326; 0.316; 0.271	<0.001; <0.001; 0.003	HDL-C: CRP	-0.230	0.010
LDL-C: Disease duration; LD; Age; CK; Myoglobin;	-0.310; 0.359; 0.212; 0.257; 0.289	<0.001; <0.001; 0.015; 0.003; 0.002	Apo-A: CRP; CK; Myoglobin	-0.293; - 0.214; -0.258	<0.001; 0.016; 0.005
Apo-B: Disease duration; LD; PED; Age; BMI; MMT-8; CK; Myoglobin; Glycemia	-0.311; 0.348; 0.307; 0.220; 0.239; -0.214; 0.256; 0.307; 0.201	<0.001; <0.001; <0.001; 0.012; 0.009; 0.017; 0.004; <0.001; 0.031	AI: BMI	0.209	0.021

Acronyms: TC, total cholesterol; TG, triglycerides; LDL-C, low-density lipoprotein; Apo-B, apolipoprotein B; non-HDL-C, non-high-density lipoprotein (TC minus measured HDL-C); Lp(a), lipoprotein A; HDL-C, high-density lipoprotein; Apo-A, apolipoprotein A; AI, atherogenic index of plasma = $\log(TG/ HDL-C)$; LD, lactate dehydrogenase; PED, current prednisolone equivalent dose; CK, creatine kinase; BMI, body mass index; MMT-8, manual muscle testing-8; CRP, C-reactive protein

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AB0413

HIGH-RESOLUTION COMPUTED TOMOGRAPHY FOR THE SCREENING, RE-SCREENING AND FOLLOW-UP OF SYSTEMIC SCLEROSIS RELATED INTERSTITIAL LUNG DISEASE: RESULTS OF A EUSTAR-SCTC SURVEY

C. Bruni^{1,2}, L. Chung³, A. M. Hoffmann-Vold⁴, S. Assassi⁵, A. Gabrielli⁶, D. Khanna⁷, E. Bernstein⁸, O. Distler² on behalf of European Scleroderma Trials and Research (EUSTAR) group and Scleroderma Clinical Trial Consortium (SCTC). ¹Careggi University Hospital, Experimental and Clinical Medicine, Division of Rheumatology, Firenze, Italy; ²University Hospital of Zürich, University of Zurich - Department of Rheumatology, Zürich, Switzerland; ³Stanford University School of Medicine and Palo Alto VA Health Care System, Department of Medicine and Dermatology, Division of Immunology and Rheumatology, Palo Alto (CA), United States of America; ⁴Oslo University hospital, Rheumatology, Oslo, Norway; ⁵The University of Texas Health Science Center at Houston, Division of Rheumatology, Houston, United States of America; ⁶Marche Polytechnic University Faculty of Medicine, Clinical and Molecular sciences, Ancona, Italy; ⁷University of Michigan, Scleroderma Program, Ann Arbor, United States of America; ⁸Columbia University Irving Medical Center, Division of Rheumatology, Department of Medicine, New York, United States of America

Background: High-resolution computed tomography (HRCT) is the gold standard diagnostic test for Interstitial lung disease (ILD), a significant cause of morbidity and mortality in systemic sclerosis (SSc). Different algorithms have been proposed for the screening of SSc-ILD, including the use of pulmonary function tests (Forced Vital Capacity - FVC, Lung Diffusion of Carbone Monoxide - DLCO). A prior survey reported that 50-66% of general rheumatologists and SSc experts ordered HRCT for ILD screening in newly diagnosed SSc patients (1).

Objectives: Given the recent availability of on-label treatment for SSc-ILD (2), the publication of consensus recommendations for the identification of SSc-ILD (3) and recent awareness programs for the use of HRCT to detect SSc-ILD, we aimed to re-evaluate the use of HRCT for screening, re-screening and follow-up of SSc-ILD.

Methods: An invitation was sent to the European Scleroderma Trials and Research (EUSTAR) and Scleroderma Clinical Trials Consortium (SCTC) members, also advertised through social media. Answers were recorded between Nov 25th and Dec 31st 2020. Questions were asked on the use of chest HRCT at baseline, the re-screening of patients with a negative baseline HRCT and the follow-up of HRCT positive SSc-ILD patients. When HRCT was not routinely requested, additional details were collected about the parameters guiding its use. The results of the survey were tested for association with geographical origin, medical specialty, working environment, SSc referral institute and scientific group membership of the responders, using Chi-squared test.

Results: 205/630 (32.5%) physicians replied to the survey. Participants were widely distributed in terms of geographical origin (130 Europe, 23 Asia, 23 North America, 31 other continents), medical specialty (156 rheumatology, 17 internal medicine, 14 clinical immunology, 14 other), working environment (176 University Hospital, 12 community hospital, 17 other), SSc dedicated clinic (179 referral and 26 non-referral) and scientific group membership (98 EUSTAR, 42 SCTC, 42 EUSTAR and SCTC, 23 not declared).

At SSc diagnosis, 95.7% of responders would perform HRCT: 66.7% as routine screening for ILD (67.4% of SSc referral and 62% for non-referral physicians) and 29% for diagnostic purposes (among the latter, if crackles on auscultation - 92.5%, FVC<80% predicted - 86.6%, FVC±DLCO relative decline reaching the current definition of ILD progression, 86.6% or dyspnea at rest/exercise - 85.1/83.3%).

During follow-up, 78.8% of responders would repeat an HRCT in baseline negative cases: 20.3% as a yearly routine screening and 64.5% for diagnostic aims (decision on the latter group was more frequently driven by FVC±DLCO relative decline indicative of ILD progression- 90.6%, new onset or worsening of dyspnea at rest/exercise - 80.5/86.6%, new onset or worsening of lung crackles on auscultation - 82.6%).

Finally, 94.5% of responders would repeat a chest HRCT after SSc-ILD diagnosis: 36.8% as a yearly routine and 56.7% according to clinical evaluation (driven by new FVC±DLCO relative decline based ILD progression - 90.8%, new onset or worsening of dyspnea at rest/exercise - 83.2/81.7%; 5.2% to evaluate treatment effects). We found no difference in the distribution of answers among groups.

Conclusion: The use of baseline HRCT for the screening of SSc-ILD has slightly increased in non-referral and remained stable in referral centers compared to previous surveys, indicating that the implementation of guidelines might be successful and awareness programs should be continued. In addition, we provide new data on use of HRCT in re-screening and follow-up. The development of validated algorithms to further support the appropriate application of HRCT at follow-up is highly needed.

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AB0414

CROSS-CULTURAL ADAPTATION, CONVERGENT VALIDITY, AND RELIABILITY OF THE TURKISH VERSION OF THE COCHIN 17-ITEM SCLERODERMA FUNCTIONAL SCALE

N. G. Tore¹, D. Oskay¹, A. Avanoglu Guler², A. Tufan². ¹Gazi University, Physiotherapy and Rehabilitation, Ankara, Turkey; ²Gazi University, Internal Medicine, Ankara, Turkey

Background: The Cochin 17-item Scleroderma Functional (CSF-17) Scale is a patient-reported outcome measure evaluating activities and participation in patients with systemic sclerosis (SSc).

Objectives: The aim of the present study was to translate and cross-culturally adapt the CSF-17 into the Turkish language and investigate its convergent validity and reliability in Turkish-speaking patients with SSc.

Methods: The CSF-17 was cross-culturally adapted according to Beaton's guideline. Participants completed CSF-17 Scale, Scleroderma Health Assessment Questionnaire (SHAQ), Short Form-12 (SF-12) Health Survey and Hospital Anxiety and Depression Scale (HADS). Internal consistency and test-retest reliability were determined interpreting Cronbach's alpha and Intraclass Correlation Coefficient (ICC) values, respectively. Convergent validity was tested using Pearson's correlation coefficient.

Results: Fifty-six patients with SSc were enrolled in the study. Cronbach's alpha and ICC values of the CSF-17 total score were found to be as 0.963 and 0.958, respectively, indicating excellent reliability. As for the convergent validity, it was determined that CSF-17 total score has a good correlation with SHAQ. Correlations of subscales of CSF-17 with subscales of SF-12 and HADS ranged from poor to moderate (Table 1).

Conclusion: Turkish version of CSF-17 met the set criteria of reliability and convergent validity. According to the results of the analysis, it was concluded that the Turkish version of the CSF-17 is a reliable and valid tool for Turkish-speaking SSc patients.

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Table 1. Convergent validity of the CSF-17

Scales	CSF-17		
	Section A	Section B	Total
SHAQ	0.680**	0.640**	0.702**
HADS-A	0.405*	0.472**	
HADS-D	0.460**	0.605**	
SF-12 MCS	-0.482**	-0.491**	
SF-12 PCS	-0.745**	-0.700**	

CSF-17: Cochin 17-item Scleroderma Functional scale, SHAQ: Scleroderma Health Assessment Questionnaire, HADS-A: Hospital Anxiety and Depression Scale-Anxiety, HADS-D: Hospital Anxiety and Depression Scale-Depression, SF 12 MCS: Short Form-12 Mental Component Score, SF-12 PCS: Short Form-12 Physical Component Score. *p<0.05, **p<0.001

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