

SUPPLEMENTARY MATERIAL

Nailfold videocapillaroscopy as a diagnostic clue in interstitial lung disease: differentiating idiopathic from autoimmune patterns in a Caucasian cohort

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Supplementary Table 1. Serological data according to interstitial lung disease subgroups. Values are expressed as n (%) unless otherwise specified.

ANA titer					
<1/160, n° (%)	13 (81.2)	1 (7.7)	5 (29.4)	2 (9.5)	<0.0001
1/160, n (%)	2 (12.5)	3 (23.1)	2 (11.8)	1 (4.8)	0.463
1/320, n° (%)	1 (6.2)	3 (23.1)	7 (41.2)	5 (23.8)	0.136
>1/320, n° (%)	0 (0)	6 (46.2)	3 (17.6)	13 (61.9)	0.0003
ANA pattern					
Homogeneous, n° (%)	3 (18.8)	1 (7.7)	1 (5.9)	6 (28.6)	0.037
Centromere, n° (%)	0 (0)	0 (0)	0 (0)	1 (4.8)	0.297
Speckled, n° (%)	0 (0)	9 (69.2)	9 (52.9)	11 (52.4)	<0.0001
Cytoplasmic, n° (%)	0 (0)	2 (15.4)	0 (0)	0 (0)	0.036
Nucleolar, n° (%)	1 (6.25)	1 (7.7)	3 (17.6)	2 (9.5)	0.094
None, n° (%)	12 (75)	0 (0)	4 (23.5)	1 (4.8)	<0.0001
Serology					
Anti-dsDNA, n° (%)	0 (0)	0 (0)	0 (0)	1 (4.8)	0.527
Anti-Ro/SSA, n° (%)	0 (0)	7 (53.8)	8 (47.1)	2 (9.5)	0.00044
Anti-La/SSB, n° (%)	1 (6.3)	0 (0)	1 (5.9)	0 (0)	0.546
Anti-Scl70, n° (%)	0 (0)	1 (7.7)	0 (0)	14 (66.7)	<0.0001
ACA, n° (%)	0 (0)	0 (0)	1 (5.9)	1 (4.8)	0.656
Anti-Sm, n° (%)	0 (0)	0 (0)	0 (0)	1 (4.8)	0.527
Anti-RNP/U1RNP, n° (%)	0 (0)	0 (0)	0 (0)	2 (9.5)	1.000
Anti-Jo1, n° (%)	0 (0)	0 (0)	7 (41.2)	0 (0)	<0.0001
Other ASy (Ku, KS, PL7-12), n° (%)	0 (0)	0 (0)	5 (29.4)	0 (0)	<0.0001
Anti-MDA5, n° (%)	0 (0)	2 (15.4)	2 (11.8)	0 (0)	0.144
Anti-TIF1gamma, n° (%)	0 (0)	0 (0)	1 (5.9)	0 (0)	0.394
RF, n° (%)	1 (6.3)	1 (7.7)	2 (11.8)	1 (4.8)	0.870
ACPA, n° (%)	0 (0)	1 (7.7)	0 (0)	1 (4.8)	0.524
Other (Th-To, PM-Scl)	0 (0)	1 (7.7)	4 (23.5)	3 (14.3)	0.197
Seronegative, n° (%)	14 (87.5)	5 (38.5)	0 (0)	2 (9.5)	<0.0001

ANA, antinuclear antibodies; anti-dsDNA, double-stranded DNA autoantibodies; anti-Ro/SSA, anti-Sjögren's-syndrome-related antigen A autoantibodies; anti-La/SSB, anti-Sjögren's-syndrome-related antigen B autoantibodies; anti-Scl70, scleroderma 70 autoantibodies; ACA, anti-centromere autoantibodies; Anti-Sm, anti Smith autoantibodies; anti-RNP/U1 RNP, anti Ribonucleoprotein/U1 Small Nuclear Ribonucleoprotein autoantibodies; anti-Jo1, histidyl-tRNA synthetase autoantibodies; ASy, antisynthetase autoantibodies; Ku, Ku antigen; KS, anti-asparaginyl-tRNA synthetase antibodies; PL7/PL12, Anti-threonyl-tRNA synthetase; anti-MDA5, Anti-melanoma differentiation-associated protein 5 autoantibodie; TIF1gamma, anti-transcription intermediary factor 1-gamma autoantibodies; RF, rheumatoid factor; aCPA, anti-citrullinated proteins autoantibodies; Th-To, 7-2 (Th) and 8-2 (To) ribonucleoprotein complex autoantibodies; PM-Scl: anti-polymyositis/scleroderma antibodies. ANA positivity was assessed by indirect immunofluorescence on HEp-2 cells. RF and ACPA were recorded as positive/negative variables. Percentages refer to the number of patients within each diagnostic subgroup.

Supplementary Table 2. Nailfold videocapillaroscopy scores and patterns.

Variable (total 67 patients)	IPF (16)	IPAF (13)	Non-SSc-ILD (17)	SSc-ILD (21)	p-value
Nailfold Videocapillaroscopy scores and percentages					
Dilated capillaries, score (mean $\pm$ SD)	1.1 $\pm$ 0.7	1.4 $\pm$ 1.2	1.5 $\pm$ 0.9	2.0 $\pm$ 1.0	0.076
Dilated capillaries, n° (%)	14 (87.5)	10 (76.9)	16 (94.1)	20 (95.2)	0.335
Megacapillaries, score (mean $\pm$ SD)	0.1 $\pm$ 0.3	0.2 $\pm$ 0.8	0.3 $\pm$ 0.7	0.5 $\pm$ 0.7	0.218
Megacapillaries, n° (%)	1 (6.3)	1 (7.7)	4 (23.5)	9 (42.9)	0.028
Microhemorrhages, score (mean $\pm$ SD)	0.3 $\pm$ 0.6	0.4 $\pm$ 0.9	0.5 $\pm$ 0.9	0.8 $\pm$ 1.0	0.338
Microhemorrhages, n° (%)	3 (18.8)	3 (23.1)	4 (23.5)	10 (47.6)	0.194
Loss of capillaries, score (mean $\pm$ SD)	0.1 $\pm$ 0.3	0.3 $\pm$ 0.6	0.4 $\pm$ 0.7	1.5 $\pm$ 1.3	<0.0001
Loss of capillaries, n° (%)	2 (12.5)	3 (23.1)	5 (29.4)	14 (66.7)	0.003
Array disorganization, score (mean $\pm$ SD)	1.3 $\pm$ 0.8	1.7 $\pm$ 1.0	1.8 $\pm$ 1.0	1.9 $\pm$ 1.0	0.228
Array disorganization, n° (%)	14 (87.5)	11 (84.6)	15 (88.2)	19 (90.5)	0.966
Ramified/neoangiogenic loops, score (mean $\pm$ SD)	0.3 $\pm$ 0.5	0.5 $\pm$ 0.9	0.8 $\pm$ 1.2	0.8 $\pm$ 0.9	0.295
Ramified/neoangiogenic loops, n° (%)	5 (31.3)	5 (38.5)	7 (41.2)	12 (57.1)	0.433
Total score (mean $\pm$ SD)	3.2 $\pm$ 1.4	4.5 $\pm$ 3.2	5.3 $\pm$ 3.2	7.5 $\pm$ 2.8	<0.0001
Nailfold Videocapillaroscopy patterns					
Normal, n° (%)	2 (12.5)	0 (0)	0 (0)	0 (0)	0.087
Nonspecific, n° (%)	13 (81.3)	10 (76.9)	12 (70.6)	1 (4.8)	<0.0001
Early, n° (%)	1 (6.3)	1 (7.7)	1 (5.9)	3 (14.3)	0.778
Active, n° (%)	0 (0)	1 (7.7)	4 (23.5)	7 (33.3)	0.042
Late, n° (%)	0 (0)	1 (7.7)	0 (0)	10 (47.6)	<0.0001

IPF, idiopathic pulmonary fibrosis; IPAF, interstitial pneumonia with autoimmune features; SSc-ILD, systemic sclerosis-associated interstitial lung disease; SD, standard deviation.