**Supplementary Table S1.** Demographic and disease characteristics of the anti-MDA5-positive and anti-Jo1-positive cohorts.

Patient characteristics	anti-Jo1 patients (n=51) Median (IQR)	anti-MDA5 patients (n=51) Median (IQR)	<i>p</i> -value
Patient age at IIM symptom onset	47.2 (33.7-55.5)	47.3 (39.7-54.3)	0.401
Patient age at JH cohort entry	48.9 (34.4-58.0	48.8 (41.1-55.3)	0.824
Male sex	29%	27%	0.779
Race			0.510
White	63%	47%	
Black	28%	31%	
Asian	4%	6%	
Other	6%	10%	
Declined	0%	2%	
Unknown	0%	4%	
Ethnicity			0.692
Hispanic	0%	2%	
Non Hispanic	88%	86%	
Unknown	12%	12%	
Duration of follow-up	5.6 (3.0-7.6)	3.7 (1.4-5.9)	0.019
Ro52 positive	75%	42%	0.001
Gottrons sign or papules	28%	98%	< 0.00001
Heliotrope sign	28%	75%	< 0.00001
Synovitis	59%	57%	0.907
Calcinosis	4%	35%	< 0.00001
Elevated CPK	77%	15%	< 0.00001
Maximum CPK	720.0 (221.5-2162.0)	101.0 (52.0-160.0)	< 0.0001
Maximum aldolase	17.6 (10.0-32.3)	8.8 (6.9-10.8)	< 0.0001
History of malignancy	8%	12%	0.527
Interstitial lung disease	80%	80%	0.961
Proximal muscle weakness	94%	73%	0.004
Death	14%	10%	0.516







