

## Immune Dermatomyopathies: Comparative Features

		<b>IM + Perimysial Pathology (IMPP)</b>	<b>Dermatomyositis + Vascular pathology</b>	<b>Regional Ischemic Immune Myopathy</b>	<b>MDA5 antibody</b>
<b>CLINICAL</b>	<b>Age range</b>	Adult > Child	Child or Adult	Late Adult	Adult
	<b>Weakness:</b> Proximal > Distal	Common	Most	All	Rare
	<b>Skin</b>	Raynaud's Mechanic's hands	Heliotrope rash Calcification	Rash (70%)	Palmar Papules & Ulcers Alopecia
	<b>Interstitial lung disease</b>	Common	Uncommon	No	Common
	<b>Myalgias</b>	Common	Occasional	Common	Rare
	<b>Neoplasm association</b>	No	Some: Adults	72%	No
<b>SERUM</b>	<b>Myositis-associated antibody</b>	Jo-1 tRNA synthetase	Mi-2 p140; p155	No	MDA5 (CADM140)
	<b>CK &gt; 1,000</b>	Some	Few	Common	No
<b>MUSCLE PATHOLOGY</b>	<b>Inflammation</b> Focal Location Type	Some Perimysium Histiocytic	Yes Perivascular, Lymphocytic Often with CD20 cells	No	
	<b>Perimysium pathology</b> Fragmentation Cellularity Without myopathy Alkaline phosphatase staining	Common Histiocytic Some patients Some patients	Occasional Lymphocytic Never Unusual	In necrotic regions Histiocytic No Yes	
	<b>Muscle fiber pathology</b> <b>Perifascicular predominant</b> COX staining reduced Necrosis & Regeneration Internal architecture Caveolin-3 aggregates <b>Regional necrosis</b>	Often Never Common Regeneration Rare No	Yes Most patients Unusual Vacuoles & Aggregates Common No	No   Yes	
	<b>Capillaries</b> <b>Near myofiber pathology</b> Ulex staining C <sub>5b-9</sub> deposition Alkaline phosphatase staining <b>Amid myofiber pathology</b> Ulex staining C <sub>5b-9</sub> deposition Alkaline phosphatase staining	Normal Absent Absent  Normal Absent Absent	    Large Few Common  Absent Common Absent	    Large Common Common  Absent Absent Absent	
	<b>Large Vessel Pathology</b>	No	Perivascular inflammation	Veins	