Supplementary Figure S1. Representative chest CT images and their score evaluation examples.

Each of the six lung zones was assessed for the degree of involvement of lesions and classified as none (0%, score 0), minimal (1–25%, score 1), mild (26%–50%, score 2), moderate (51%–75%, score 3), or severe (76%–100%, score 4). The chest CT score is expressed as the sum of the scores of the six lung zones indicated in the middle.

Supplementary Figure S2. Flowchart of the study participants.

PM, polymyositis; DM, dermatomyositis; IIM, idiopathic inflammatory myopathies; EULAR/ACR, European Alliance of Associations for Rheumatology/American College of Rheumatology; MDA5, differentiation-associated gene 5; MRI, magnetic resonance imaging; ADM, amyopathic dermatomyositis.

Supplementary Figure S3. MR image and pathological image of en bloc biopsy.

MR (STIR sequence) and pathological images of patient 9 in the right triceps (R-TB). The muscle contains both the fascial pattern (arrow) and intramuscular pattern (arrowhead) and is classified as ‘FI.’ An en bloc biopsy is performed at the fascial pattern indicated by the dotted squares. A representative example of the pathology in the fascial and adjacent muscular layers is shown. Scale bars = 100 μm.