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DYSREGULATED IMMUNE SYSTEM IN MDA5-POSITIVE DERMATOMYOSITIS PATIENTS

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Dermatomyositis, a subgroup of idiopathic inflammatory myopathy, is characterized by inflammation of muscles and skin. In Asian cohorts, the presence of anti-melanoma differentiation-associated gene-5 (MDA5) autoantibody in dermatomyositis patients is often associated with rapidly progressive interstitial lung disease (RP-ILD). Here we examined the immune system of MDA5-positive dermatomyositis patients (n=9) and compared with healthy controls (n=10). The percentages of Th17 and Treg cells in the peripheral bloods from MDA5-positive dermatomyositis patients were higher than those from healthy controls. Furthermore, circulating proinflammatory levels of IFN γ , IL-17, TNF α , IL-6, CCL18, and IP-10 from MDA5-positive dermatomyositis patients were significant increase compared with healthy controls. These data suggest that MDA5-positive dermatomyositis patients had the dysregulated immune system and the exacerbated inflammation response. In addition, plasma surfactant protein D and Krebs von den Lungen-6 levels in MDA5-positive dermatomyositis patients were markedly higher than those in healthy controls, supporting that the presence of anti-MDA5 autoantibody in dermatomyositis patients usually had lung fibrosis phenomena.

Biography

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