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Thoracic Manifestation of Myeloperoxidase-Antineutrophil Cytoplasmic Antibody (MPO-ANCA) -Related Disease: CT Findings in 51 Patients

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Thoracic Imaging

Abstract **Author Information** **Authors** **Article Metrics** **Metrics**

Objective To assess the pulmonary CT findings of patients with serum evidence of the myeloperoxidase-antineutrophil cytoplasmic antibody (MPO-ANCA).

Methods The pulmonary CT scans of 62 patients with serum evidence of MPO-ANCA (51 with microscopic polyangiitis, 11 with Churg-Strauss syndrome) were retrospectively assessed with regard to parenchymal, pleural, and mediastinal abnormalities.

Results On the CT scans, abnormal findings were seen in 51 of the patients (82%, n = 62). Of the patients, the CT findings consisted of ground-glass attenuation in 48 of the patients (94%, n = 51), consolidation in 40 (78%), and thickening of bronchovascular bundles in 26 (51%). Pathologically, these findings corresponded to alveolar hemorrhages, interstitial chronic inflammation in the alveolar septa, vasculitis, or fibrosis. These abnormalities were predominantly seen in peripheral lung parenchyma (n = 37).