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Title: A retrospective clinical and radiological review of 20 Castleman's disease cases

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Body: [RATIONALE] Castleman's disease is one of the rare lymph proliferative diseases, which usually involves lung. There is still no established standard therapy at the moment. We have examined the clinical findings including therapies and prognoses. [METHODS] On the cases of Castleman's disease consulted in our hospital in the past 10 years until 2011, we retrospectively examined based on the medical records. [RESULTS] The study comprised 20 patients (70% male) with a mean age of 55 (25-70) years old. As complications, 6 cases had POEMS syndrome (2 with PH), 3 had hematologic diseases (DLBCL, ITP, MDS). By chest CT, mediastinal adenopathy was confirmed in all cases, 10 were confirmed with lung involvement (5: nodular shadow; 2: reticulonodular shadow; 4: GGO; 5: interlobular septal thickening), 6 with pleural effusion, and 3 with cardiac effusion. The diagnostic methods were 13 cases of surgical lymph node biopsy, 6 cases of lung biopsy (2: TBLB; 2: VATS lung biopsy; 1: open lung biopsy; 1: CT-guided lung biopsy), 1 case of lachrymal gland biopsy. Histopathologically, there were 4 cases of hyaline vascular type and 16 cases of plasma cell type. 4 cases were prioritized on the treatment for complications (3: POEMS syndrome; 1: ITP), and 2 were left untreated for a follow-up. Treatment was started for 14 cases using PSL at the time of diagnosis or exacerbation of symptom. [CONCLUSIONS] In this study, lung biopsies are useful as diagnostic method in the cases with pulmonary involvement. Few cases were confirmed with reduction of lymph node and improvement of lung involvement by treatment. But in many cases symptomatic improvement or suppression of the progress of the disease by the treatment were observed.