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| **Airflow limitation in hypersensitivity pneumonitis** |
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| **Introduction/Aim:** Interstitial lung diseases (ILD) typically cause a restrictive pattern on pulmonary function tests (PFTs) and reduced diffusing capacity. Hypersensitivity pneumonitis (HP) is one of a small group of ILDs that can also cause airflow limitation on PFTs. A recent consensus statement divides HP into non-fibrotic and fibrotic phenotypes. The aim of this study was to evaluate the frequency of airflow limitation in HP, and assess whether it is associated with a non-fibrotic phenotype.**Methods:** A retrospective review was conducted of HP cases presented at the Concord Hospital ILD Multidisciplinary meeting from January 2016 to June 2023. Data extracted included age, sex, identified allergen, PFTs and radiological pattern (non-fibrotic or fibrotic) on chest high resolution computerized tomography (HRCT). Descriptive statistics and correlation between PFT and HRCT patterns were assessed using a chi-squared test.**Results:** 55 patients diagnosed with HP were identified. There were 26 patients with complete PFTs at Concord Hospital to date, 9 females and 17 males. The mean age was 75.8 years (range 57-90 years). An inciting allergen was identified in 17 cases (65%), including birds, mould, paint, hot tubs and agricultural dusts. Airflow limitation was found in 5 cases (19%) based on an FEV1/FVC less than lower limits of normal (LLN). Non-fibrotic HP was seen in 10 cases (38%). Radiological gas trapping was present in 15 cases (58%), 9 of which were non-fibrotic. There was not a significant association between the presence of airflow limitation and non-fibrotic HP (p=0.3).**Conclusion:** Airflow limitation is seen in a small number of cases of HP and was not associated with a non-fibrotic phenotype. Whether airflow limitation in HP is associated with particular allergen exposure or is associated with treatment response or prognosis require further investigation.**Grant Support:** Nil**Keywords:** airflow limitation, hypersensitivity pneumonitis, gas trapping |