

Radiological features of interstitial lung disease associated with collagen vascular disease in Fayoum University Hospital

Abstract:

Objective: Collagen vascular diseases (CVD) are a varied group of immune-mediated disorders that affect multiple organs, such as affection of interstitium in the form of interstitial lung disease (ILD).

High-resolution computed tomography is the cornerstone for appropriate diagnosis of ILD.

Aim: This study aimed to study the radiological features of ILD associated with CVD in Fayoum University Hospital.

Design: This was a cross-sectional study.

Setting: The study was conducted at Fayoum University Hospital in Egypt during January 2018 to June 2018.

Patients and methods: This study included 100 patients with diagnosis of CVD who were referred from Rheumatological Department of Fayoum University Hospital complaining of chest symptoms. For the diagnosis of these cases, we needed a full medical history, a detailed clinical examination, spirometry, 6-min walk test, and high-resolution computed tomography.

Results: The most important radiologic pattern for ILD-CVD was the nonspecific interstitial pneumonia pattern, representing 50% of cases, followed by the usual interstitial pneumonia pattern, representing 13% of cases.

Conclusion: Nonspecific interstitial pneumonia is the most common radiological pattern among patients of CVD in Fayoum University Hospital.

Keywords: collagen vascular diseases, Fayoum University Hospital, interstitial lung disease