

# TORAKS 2018

8. Kongres Hrvatskog  
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8<sup>th</sup> Congress of Croatian  
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## SINGLE CENTRE EXPERIENCE IN SAFETY AND DIAGNOSTIC YIELD OF CRYOBIOPSY WITHOUT FLUOROSCOPY

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**Objective:** Introduction: Transbronchial criobiopsy is less invasive diagnostic technique for interstitial lung disease. According to published paper is safe with good diagnostic yield.

Aim: to analyse safety and diagnostic yield of cryobiopsy in our centre.

Methods: Retrospective study which included 37 patients with clinical and radiographic features of interstitial lung disease who underwent transbronchial cryobiopsy without fluoroscopy.

Results: Safety: Pneumothorax occurred in 2 patients (5,4%). There was no severe bleeding. In 26 cases (70%) there was mild bleeding and in 2 cases no bleeding. The mean number of samples was 4 (1-5) and mean diameter was 5,4 mm (5,4+/-2,3). Definitive diagnosis by pathologist was obtained in 15 (40,5%) cases (NSIP in 6 cases, 2 granulomatosis, 1 DAD, 1 UIP, 1 hypersensitivity pneumonitis, 1 drug related, 1 adenocarcinoma, 1 aspiration pneumonitis, 1 pneumoconiosis). In 15 cases cryobiopsy was inconclusive, in 5 cases nonspecific fibrosing changes were found and in 3 cases normal lung tissue. After multidisciplinary team discussion definitive diagnosis was obtained in 26 (70,2%) cases (6 NSIP, 4 IPF, 3 pulmonary manifestations of connective tissue disease, 3 chronic hypersensitivity pneumonitis, 2 sarcoidosis, 2 RB ILD, 2 cryptogenic organising pneumonia, 1 drug induced interstitial lung disease, 1 adenocarcinoma, 1 aspiration pneumonitis, 1 pneumoconiosis).

Conclusion: Cryobiopsy is safe procedure with low incidence of serious complications (major bleeding or pneumothorax) even when it is performed without fluoroscopy. Results in our study showed lower proportion of

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definitive diagnosis established after cryobiopsy which can be partly explained with the lack of pathologist's experience when we started the study.