

European Respiratory Society Annual Congress 2013

Abstract Number: 3323

Publication Number: P3791

Abstract Group: 1.5. Diffuse Parenchymal Lung Disease

Keyword 1: Chronic disease **Keyword 2:** Sarcoidosis **Keyword 3:** Interstitial lung disease

Title: The utility of 18F-FDG PET/CT in chronic sarcoidosis

Dr. Jelica 19924 Videnovic-Ivanov jelicavi@gmail.com MD ¹, Prof. Dr Dragana 19925 Sobic-Saranovic jelicavi@gmail.com MD ², Prof. Dr Violeta 19926 Vucinic jelicavi@gmail.com MD ¹, Dr. Isidora 19927 Grozdic jelicavi@gmail.com MD ², Dr. Snezana 19928 Filipovic jelicavi@gmail.com MD ¹, Dr. Mihailo 19929 Stjepanovic jelicavi@gmail.com MD ¹ and Dr. Maja 19934 Omcikus jelicavi@gmail.com MD ¹. ¹ Pulmology, Clinic for Lung Disease, Belgrade, Serbia, 11000 and ² Nuclear, Institute for Nuclear Medicine, Belgrade, Serbia, 11000 .

Body: The analysis was performed in chronic sarcoidosis patients with persistent clinical symptoms due to assess the utility of 18F-FDG PET/CT. The analysis were performed before and after the period of specific therapy for sarcoidosis due to clinical-radiographic-functional findings. Methods: We analyzed 51 patients with chronic sarcoidosis (mean age \pm SD: 47 \pm 12 year; 38 F/13M). After the follow up (12 \pm 5 months), the clinical status,functional findings and therapy modalities were analyzed. Results: 18F-FDG PET CT detected activity s.inflammation in 37 patients (82%) (SUV: 8.1 \pm 3.9).MDCT was positive in 5 additional patients (89%). The difference between this two methods was not significant.Correlation between ACE levels and 18F-FDG PET/CT results were obtaine in 25 (49%) patients (P = 0.002,Mann–Whitney test). In 26 patients (51%) with positive 18F-FDG PET/CT findings, the ACE levels were in physiological levels. The therapies were initiated or even changed in 43 (81%). Significante correlation were find out between the positive 18F-FDG PET/CT results and changes in therapies. Conclusion: the results from our study indicate that 18F-FDG PET/CT is the important diagnostic method in chronic sarcoidosis due to obtaine the activity of sarcoidosis granulomas.