

# European Respiratory Society Annual Congress 2012

**Abstract Number:** 4370

**Publication Number:** P3629

**Abstract Group:** 1.5. Diffuse Parenchymal Lung Disease

**Keyword 1:** Bronchoalveolar lavage **Keyword 2:** Idiopathic pulmonary fibrosis **Keyword 3:** Biomarkers

**Title:** The markers of inflammatory process activity and fibrogenesis activity in patients with idiopathic pulmonary fibrosis

Dr. O.V. 27093 Karas'ova sana911@ukr. , Ms. E.S. 27094 Khmel nethenessy\_xs@mail.ru MD , Dr. E.N. 27095 Kovalenko e.n.kovalenko@meta.ua MD and Prof. Dr V.V. 27096 Rodionova v.rodionova@i.ua MD .<sup>1</sup> Hospital therapy and Profpathology, Dnepropetrovsk Medical Academy, Dnepropetrovsk, Ukraine, 49010 .

**Body:** Purpose: to define the inflammatory markers and severity of idiopathic pulmonary fibrosis (IPF). Design: There were examined 29 patients with IPF (men - 21, women - 8) in the age of 35 - 57 years. Duration of disease was from 2-3 months till 2-3 years. Control group included 10 practically healthy persons (donors). Methods: common clinical methods, X-ray examination, definition of hemostasis parameters. The hardphase method of immune analysis was used for measuring level of plasma fibronectin (PFN) and lavage fibronectin (LFN). Patients had been examined during the period of disease aggravation. Results: Patients with IPF had increased level of PFN and decreased activated blood recalcification time (ABRT) ( $p < 0,05$ ). The level of PFN was  $319,211 \pm 14,769$  mkg/ml, LFN -  $0,055 \pm 0,011$  mkg/ml and didn't depend on both sex and age. There existed straight connection between level of PFN and ABRT ( $r = 0,4335$ ;  $p < 0,05$ ) and reverse connections between levels of PFN and LFN and level of plasma fibrin ( $r = -0,5482$  and  $r = -0,4969$ ;  $p < 0,05$ ). Severity of patients condition correlated with increased level of PFN. Conclusions: Revealed inflammatory markers and changes in hemostasis system testify about activation of fibrogenesis and forming of chronic disseminated intravascular coagulation.