**[P3919] Vascular endothelialgrowth factor of poor prognosis of a new form of bronchopulmonary dysplasia**

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Study of the function and capacity of the lung interstitium is very important to determine the reasons for extrauterine lung ontogeny braking in order to prevent a decrease in lung volume and vital development of diffusion-perfusion disorders with a new form of bronchopulmonary displasia.
Purpose. Improving the efficiency of diagnosis of a new form of bronchopulmonary dysplasia by defining the role of cytokines and growth of the proteoglycans in the prognosis of the disease.
Patients and methods.Electrophoresis conducted with ELISA to determine the performance of vascular endothelialgrowth factor (VEGF) serum in 72 children with a new form of bronchopulmonary dysplasia corrected aged 1-36 months.
**Results.** Found that children with a new form of bronchopulmonary dysplasia characterized by reduced levels VEGF (p <0.05), which is an indicator of prolong fibrosis and delay of alveologenesis and angiogenesis during the first 3 years of life in children with new bronchopulmonary dysplasia. VEGF is an early marker of interstitial prediction of a new form of bronchopulmonary dysplasia by the absence of positive dynamics in the direction of decreasing severity (Wilks' lambda - 0,899; F-6, 8 (3.8), p <0,01).
**Conclusion.** Of great importance in assessing the state of the pulmonary interstitium in the alveolar lung ontogenetic stage in children with a new form of bronchopulmonary dysplasia is the level VEGF. The level of VEGF is possible to predict the absence of positive dynamics to reduce the severity of a new form of bronchopulmonary dysplasia within the first 3 years of life.

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