

- 1088 **Markers of resistance to corticosteroids therapy in patients with pulmonary sarcoidosis**
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Kseniia Ostrovska
- 1089 **The value of urinary calcium as biomarker in chronic sarcoidosis**
Paolo Cameli (Siena (SI), Italy), Stefano Gonnelli, Elena Bargagli, Miriana D'Alessandro, Laura Bergantini, Dea Tomai Pitinca, Rosa Metella Refini, Maria Pieroni, Piersante Sestini, Carla Caffarelli
- 1090 **An association between sarcoidosis and serum immunoglobulin levels**
Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Denis Konovalov, Eugene Stambolsky, Laine Francuzeviča, Marina Lebedeva, Leonid Strigakov, Larisa Samohodskaya, Tatyana Krasnova, Sergey Moiseev
- 1091 **Serum markers of acute sarcoidosis.**
Evgeniya Adamovskaya (Moscow, Russian Federation), Vladimir Evstifeev, Evgenia Adamovskaya, Galina Shepelkova, Anna Zaytseva, Evgeniy Shmelev, Vladimir Yermeev
- 1092 **The importance of cortisol level in differential diagnostic between lung tuberculosis and sarcoidosis**
Mariya Banyonis (Smolensk, Russian Federation), Mariya Listopadova, Marina Karuk

Pre-congress content **Session 91** 00:00 - 23:59

E-poster session: Asthma management: role of biomarkers and comorbidities

Disease(s) : **Airway diseases**

Method(s) : Pulmonary function testing General respiratory patient care Epidemiology Cell and molecular biology

Chairs : Daniel Doberer (Wien, Austria), Chair to be confirmed

- 1093 **Evaluation of IL-17 and FEF25-75 in patients with uncontrolled moderate asthma**
Elena Jovanovska Janeva (Skopje, North Macedonia), Dejan Dokic, Gorica Breskovska, Biserka Kaeva, Zlatica Goseva, Zoran Arsovski, Dejan Trajkov, Olgica Sibirnovska, Magdalena Genadieva Dimitrova
- 1094 **Exploring the association between Socioeconomic status and asthma exacerbations: a real-world prospective cohort study in Chinese adults**
Gang Wang (Chengdu (Sichuan), China), Xin Zhang, Li Zhang, Erik Melén, Lei Wang
- 1095 **Associations between inflammatory endotypes and phenotypes of obesity at young patients with bronchial asthma**
Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Nataliya Gordeeva, Marina Mamaeva, Dmitriy Anikin
- 1096 **Effect of mepolizumab on chronic rhinosinusitis symptoms and nasal hypersensitivity in patients with or without nasal polyps**
Nikoletta Rovina (Athens, Greece), Mairi Tsami, Marios Panagiotou, Ekaterini Syrigou, Nikolaos Koulouris
- 1097 **Predictive factors of uncontrolled allergic asthma in developing countries**
Imen Bachouch (Ariana, Tunisia), Smaoui Hbaieb Racha, Jarraya D, Mousli Amina, Belloumi Nidhal, Chermiti Fatma, Fenniche Soraya
- 1098 **Allergy Testing in Asthmatics and Severe Asthmatics in Belgium : Role of Comorbidities**
Sandra Gurdain (Kraainem, Belgium), Jan Vanschoor, Stefaan Vancayzeele, Bram Flahou
- 1099 **Asthma control status and lung function in relation to vitamin D level in children with bronchial asthma.**
Lali Bugadze (Sachkhere, Georgia)

Pre-congress content **Session 92** 00:00 - 23:59

E-poster session: Phenotypes of asthma and COPD

Disease(s) : **Airway diseases**

Method(s) : General respiratory patient care Public health Cell and molecular biology Physiology Epidemiology Pulmonary function testing

Chairs : Apostolos Bossios (Stockholm, Sweden), Vibeke Backer (Copenhagen, Denmark)

- 1100 **Frequencies of Regulatory CD8TIGIT T Cells Reflect Disease Status in COPD**
Jia Hou (Yinchuan, China), Hui Li, Zhigang Tian, Xiwei Zheng
- 1101 **Serum G-CSF is a non-invasive biomarker classifying bacterial/neutrophilic COPD exacerbations**
Arindam Chakrabarti (San Ramon, United States of America), David Choy, Xiaoying Yang, Yi Cao, Wei Tew, Jordan Mar, Nisha Rathore, Olga Li, Michele Grimaldeston, Christopher Brightling, Mona Bafadhel, Carrie Rosenberger



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v i r t u a l

Evaluation of IL-17 and FEF25-75 in patients with uncontrolled moderate asthma

E. Jovanovska Janeva (Skopje), D. Dokic (Skopje), G. Breskovska (Skopje), B. Kaeva (Skopje), Z. Goseva (Skopje), Z. Arsovski (Skopje), D. Trajkov (Skopje), O. Sibinovska (Skopje), M. Genadieva Dimitrova (Skopje)

Introduction: Th17 cytokines, secrete IL-17A which are an important regulators of inflammation in asthma. Recent studies demonstrate that patients with moderate and severe uncontrolled asthma phenotypes have been associated with increased IL-17A production.

The purpose of this study is to determine the effect of combined therapy of ICSs/LABAs in patients with uncontrolled moderate asthma by analyzing of IL-17 and FEF25-75 at the beginning and after 6 months of therapy.

Material and Methods: In study we included 28 patients with uncontrolled moderate asthma. In each of them were measured serum levels of IL-17A by the ELISA method and spirometry parameter FEF 25-75 which are indicated for small airways obstruction. They were treated with combined therapy of ICSs/LABAs in duration of 6 months

Results: were statistically elaborated according to the Mann-Whitney test and T-test for Dependent Samples. The obtained results showed that the level of IL-17 before the start of therapy were much higher and that treatment significantly reduces their value (before th: $N = 28$; mean \pm SD = 6.01 ± 12.5 ; median (IQR) min-max = $3.18 (3.01-3.55)$; after th: mean \pm SD = 3.01 ± 6.1 ; median (IQR) min-max = $1.75 (1.65-1.88)$ $p = 0,000004$ sig. The difference in the average value of FEF 25-75 before and after therapy was statistically significant ($t = 2.24$, $p = 0.033$ sig $p < 0.05$).

Conclusion: The concentration of IL-17 is closely related with airway obstruction in patients with uncontrolled moderate asthma and may serve as a marker for evaluating the severity of airway inflammation. The therapy with ICSs/LABAs can prevent progression and reduce airway remodeling.

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