

MEETING ABSTRACT



P01-032 – Characterization of genetic-negative FMF

I Ben-Zvi^{1,2*}, C Herskovizh², Y Kassel³, A Livneh^{1,2}

From 7th Congress of International Society of Systemic Auto-Inflammatory Diseases (ISSAID) Lausanne, Switerland. 22-26 May 2013

Introduction

Up to 20 percent of FMF cohorts consist of patients fulfilling the diagnostic criteria of familial Mediterranean fever, yet carry no MEFV mutations (genetic-negative). The phenotype of these patients has been poorly characterized.

Objectives

To define clinical and demographic parameters of genetic negative FMF.

Methods

In this observational comparative study, 47 sequential genetic negative FMF patients and 78 sequential genetic positive (for at least one allele) FMF control patients were compared using a comprehensive questionnaire completed at the time of their routine clinic visit, using direct questioning and patients' files. The definition of FMF was based on our clinical tool, widely accepted for FMF diagnosis. Absence of the 5 most common MEFV mutations in routine genetic testing of FMF was considered genetic negative FMF. Disease severity was determined by Mor criteria.

Results

The mutation-negative and mutation positive cohorts differed respectively on the age of disease onset (19.6 vs. 10.1 years, p<0.001), family history of FMF (44% vs. 76.9%, p<0.001), rate of severe disease (23.4% vs. 64.1%, p<0.001), and rate of erysipelas-like erythema which was higher in the control group (p=0.024). There was a trend for diagnosis delay (9.95 years vs. 6.68 (p=0.08). There were no significant differences in gender and in a wide array of clinical manifestations. The average dose of colchicine, the

¹Heller Institute of Medical Research, Departemnt of Medicine F, SHEBA MEDICAL CENTER, Ramat-Gan, Tel Aviv, Israel

Full list of author information is available at the end of the article



Conclusion

The FMF specific phenotype manifested in mutationnegative FMF, together with low prevalence of family history, suggest the occurrence of a de-novo genetic event downstream the MEFV related pathway.

Disclosure of interest

None declared.

Authors' details

¹Heller Institute of Medical Research, Departemnt of Medicine F, SHEBA MEDICAL CENTER, Ramat-Gan, Tel Aviv, Israel. ²Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel. ³Departemnt of Medicine F, SHEBA MEDICAL CENTER, Ramat-Gan, Israel.

Published: 8 November 2013

doi:10.1186/1546-0096-11-S1-A36 Cite this article as: Ben-Zvi *et al*.: P01-032 – Characterization of geneticnegative FMF. *Pediatric Rheumatology* 2013 11(Suppl 1):A36.



© 2013 Ben-Zvi et al; licensee BioMed Central Ltd. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/2.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.