

MEETING ABSTRACT

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# EHMTI-0135. Migraine outcomes and cortical excitability: analysis of pattern-reversal visual evoked potentials (PR-VEP)

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From 4th European Headache and Migraine Trust International Congress: EHMTIC 2014  
Copenhagen, Denmark. 18-21 September 2014

## Introduction

Outcomes of migraine (M) in the elderly as well as age-related neurophysiological changes are poorly studied.

Aim of study was to evaluate cortical excitability changes in M patients depending on patient's age and M outcome.

## Methods

Study groups comprised: 20 young (aged 20-49, YM) and 35 elderly pts (aged 50-70, EM) with ongoing typical M attacks; 11 elderly pts (aged 50-70) with complete M cessation by now and typical M course in the past (No more M) and 7 pts of any age with partial M cessation (preservation of M aura without headache) - Late Life Migraine Equivalents (LLME). Diagnosis was based on ICHD-2, 2004. Control groups: healthy subjects without headache (n=15 aged 20-49, n=15 aged 50-70). The RP-VEP test was carried out in a period free from migraine attacks.

## Results

Significant increase in total N75-P100 ( $p < 0,05$ ) and more marked dyshabituation were obtained in YM ( $7,74 \pm 2,7$  and  $-8.1\%$ ), EM ( $7,85 \pm 3,9$  and  $-2.3\%$ ) and LLME groups ( $8.7 \pm 2.5$  and  $-0.76\%$ ) compared to group no more M ( $5.6 \pm 1,5$ ) and both control groups without M anamnesis ( $6,85 \pm 2,6$  and  $-14.4\%$ ;  $6,24 \pm 2,6$  and  $-15.1\%$ ).

## Conclusions

Our study has shown that patients with active M and those keeping M aura but shedding headache phase (LLME) demonstrate neurophysiological pattern typical for M reflecting cortical hyperexcitability which could be

the basis for M preservation in any age. On the contrary, in patients of any age with complete M cessation we revealed complete normalization of both indexes which appeared comparable to subjects who never suffered from M.

No conflict of interest.

Published: 18 September 2014

doi:10.1186/1129-2377-15-S1-E34

Cite this article as: Sergeev et al.: EHMTI-0135. Migraine outcomes and cortical excitability: analysis of pattern-reversal visual evoked potentials (PR-VEP). *The Journal of Headache and Pain* 2014 **15**(Suppl 1):E34.

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