POSTER PRESENTATION

Open Access

Is ischemic stroke more severe in patients with migraine vs. other headache types?

V Maticiuc*, I Moldovanu, S Odobescu, O Grosu

From The European Headache and Migraine Trust International Congress London, UK. 20-23 September 2012

Background

Migraine (Mg) is recognized as a cardiovascular risk factor and connection with stroke (S) is well known, especially for Mg with aura.

Objectives

To evaluate the influence of Mg on the severity of S compared to other types of headache and the relationship between Mg and S (according to Welsh criteria).

Material and methods

The study included 134 pts with S and headache. After statistical adjustment for age, gender and affected vascular brain system, 2 groups were formed: I - 15 pts with S and Mg, II- 16 pts with S and other types of headache. All patients had confirmation of S on the cerebral CT or IRM 1,5T. Headache was assessed according to ICHD-II (2004), Welch criteria were applied for the relationship between Mg and S. The Rankin score for S disability was preformed.

Results

The I group (8 women and 7 men) mean age 49, 53 \pm 11.59 years: 9 pts had Mg with aura (MA) and 6 pts - without aura (MO). The second group (8 women and 8 men) mean age 53.87 \pm 6.8 years, 12 pts- tension type headache, 3 pts - headache attributed to HTA and 1 pts - unclassified. There were no differences between groups on main vascular risk factors (blood pressure, cholesterol level and ischemic cardiopathy). According to Welch criteria 2 pts (13.3%) had class I category of relationship between Mg and S – "coexisting migraine and stroke"- S occurs in a patient with Mg, but not during an attack, 9 pts (60%) had class IIIB " migraine-induced stroke; with risk factors" - MA produces S in the presence of another

risk factor and 4 pts (26.6%) had the class IV - "uncertain" history of MO and S during a Mg attack. The Rankin disability scale was significantly worse in S and Mg group (3.0 \pm 1.0 vs. 2. 18 $\pm1.11,$ p<0.02) compared to S with other headaches types.

Conclusions

A patient with Mg had a high probability to have a more severe S with increased degree of motor deficit on Rankin disability scale than patients with other types of headache. The relationship between Mg and S is complex and difficult to evaluate and future studies are needed.

Published: 21 February 2013

Reference

 Bousser M-G, Welch MA: Relation between migraine and stroke. Lancet Neurol 2005. 4:533-542.

doi:10.1186/1129-2377-14-S1-P144

Cite this article as: Maticiuc et al.: Is ischemic stroke more severe in patients with migraine vs. other headache types? The Journal of Headache and Pain 2013 14(Suppl 1):P144.

Submit your manuscript to a SpringerOpen journal and benefit from:

- ► Convenient online submission
- ► Rigorous peer review
- ▶ Immediate publication on acceptance
- ▶ Open access: articles freely available online
- ► High visibility within the field
- ► Retaining the copyright to your article

Submit your next manuscript at ▶ springeropen.com

National Institute of Neurology and Neurosurgery, Moldova, Republic of

