

**MEETING ABSTRACT**

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# EHMTI-0074. Excessive daytime sleepiness in migraineurs is associated with anxiety and depression: a population-based study

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## Introduction

Excessive daytime sleepiness is a major clinical and health concern that can have harmful consequences and has shown an association with anxiety and depression. A close relationship between EDS and migraine has been reported in case-control studies. Case-control study may be affected by confounding factors.

## Aims

To examine whether excessive daytime sleepiness (EDS) in migraineurs is associated with anxiety and depression in a population-based sample.

## Methods

We selected a stratified random population sample of Koreans aged 19-69 and evaluated them with a 60-item semi-structured interview designed to identify headache type, anxiety, depression and EDS. Subjects with EDS were identified if a subject's Epworth Sleepiness Scale (ESS) was 10 or more. Anxiety and depression symptoms were evaluated using Goldberg Anxiety Scale questions and Patient Health Questionnaire-9, respectively.

## Results

The 1-year prevalences of EDS and migraine were 16.8% and 5.4%, respectively. Migraineurs reported more commonly reported EDS compared to non-migraine subjects (25.2% vs. 16.3%, p = 0.005). Migraineurs with EDS reported higher attack frequency per month ( $6.0 \pm 8.5$  vs.  $3.5 \pm 5.8$ , p = 0.010), higher HIT-6 score ( $60.0 \pm 10.1$  vs.  $52.6 \pm 8.3$ , p < 0.001) compared to migraineurs without EDS. Logistic regression analysis revealed that migraine

showed an odds ratio (OR) for EDS compared to non-migraineurs (OR [CI]) = 1.7 [1.2-2.6]). After adjusting anxiety and depression, migraine was not associated with EDS (OR [CI]) = 1.3 [0.8-1.9]).

## Conclusions

Approximately 1/4 of migraineurs experienced EDS. Excessive daytime sleepiness in migraineurs was associated with anxiety and depression.

No conflict of interest.

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