P43 The Association of Irritable Affective Temperament with 24-Hour Brachial and Central Blood Pressure and Hemodynamic Parameters in Untreated Hypertensive Men

Beáta Kőrösi¹, Dóra Batta², Milan Vecsey-Nagy³, Xenia Gonda⁴, Zoltán Rhimer⁴, Zsófia Nemcsik-Bencze⁵, Andrea László⁶, János Nemcsik⁷

¹Semmelweis University, Budapest, Hungary
²Department of Family Medicine, Semmelweis University, Budapest, Hungary
³MTA-SE Cardiovascular Imaging Research Group, Semmelweis University, Budapest, Hungary
⁴Department of Psychiatry and Psychotherapy, Semmelweis University, Budapest, Hungary
⁵Magnetic Resonance Research Center, Semmelweis University, Budapest, Hungary
⁶First German Hospital for Traditional Chinese Medicine, Bad Kötzting, Germany
⁷Health Service of Zugló (ZESZ), Budapest, Hungary

ABSTRACT

Background: Affective temperaments (depressive, irritable, hyperthymic, anxious, cyclothymic) have an important role in psychopathology, but accumulating data support their involvement in vascular pathology, especially in hypertension as well. The aim of our study was to evaluate their associations with 24-hour brachial and central hemodynamic parameters in untreated patients who were studied because of elevated office blood pressure.

Methods: Mobil-O-Graph was used to measure the 24-hour brachial and central parameters. Affective temperaments, depression and anxiety were evaluated with TEMPS-A, Beck and HAMA questionnaires, respectively.

Results: 84 patients were involved into the study (49 men). Irritable temperament score was associated with nighttime brachial systolic blood pressure ($r = 0.279$, $p = 0.010$), with nighttime brachial mean arterial pressure ($r = 0.239$, $p = 0.028$), with nighttime central systolic blood pressure ($r = 0.288$, $p = 0.008$), with nighttime central diastolic blood pressure ($r = 0.238$, $p = 0.029$), with 24-hour cardiac output ($r = 0.298$, $p = 0.006$) and inversely with 24-hour reflection magnitude ($r = -0.297$, $p = 0.006$). These associations were attenuated after the adjustment of age, depression and anxiety and were absent in women.

Conclusion: In conclusion, affective temperaments, especially irritable temperament can have an impact on 24-hour brachial and central hemodynamics in untreated hypertensive men.

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