P92 The Association of Agreeableness and Conscientiousness with 24-Hour Brachial Blood Pressure and Hemodynamic Parameters in Untreated Hypertensive Patients

Milán Vecsey-Nagy¹, Beáta Kőrösi², Dóra Batta², Xénia Gonda³, Zoltán Rihmer³, Zsófia Nemcsik-Bencze⁴, Andrea László⁵, János Nemcsik⁶

¹Semmelweis University, Budapest, Hungary
²Department of Family Medicine, Semmelweis University, Budapest
³Department of Psychiatry and Psychotherapy, Semmelweis University, Budapest
⁴Magnetic Resonance Research Center, Semmelweis University, Budapest
⁵MD Office Jula/Schindler, Nürnberg, Germany
⁶Department of Family Medicine, Semmelweis University, Budapest; Health Service of Zugló (ZESZ), Budapest, Hungary

ABSTRACT

Background: There is growing evidence that Five Factor Model personality traits (extraversion agreeableness, conscientiousness, neuroticism, and openness) have an impact on cardiovascular (CV) risk. The aim of our study was to evaluate their associations with 24-hour brachial and central hemodynamic parameters and arterial stiffness 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. The Big Five Dimensions were evaluated with the BFI questionnaire. 68 patients were involved into the study (45 men).

Results: Agreeableness was inversely associated with nighttime brachial systolic blood pressure ($r = -0.255, p = 0.036$), 24-hour heart rate ($r = -0.243, p = 0.046$), 24-hour cardiac output ($r = -0.314, p = 0.009$) and with daytime cardiac output ($r = -0.341, p = 0.004$). Conscientiousness was inversely associated with 24-hour heart rate ($r = -0.276, p = 0.023$) and daytime heart rate ($r = -0.283, p = 0.019$).

Conclusion: In conclusions, agreeableness and conscientiousness can have an impact on 24-hour hemodynamic parameters in untreated hypertensive patients.

© 2019 Association for Research into Arterial Structure and Physiology. Publishing services by Atlantis Press International B.V.

This is an open access article distributed under the CC BY-NC 4.0 license (http://creativecommons.org/licenses/by-nc/4.0/).