14. Tagung der Österreichischen Gesellschaft für Psychologie



Contribution ID: 175 Type: Vortrag

The effects of the music listening style on pain reactions and activity of stress-responsive systems: An experimental approach

Monday, 5 September 2022 10:40 (20 minutes)

Objective: Music listening affects pain and stress. Music listening styles (MLS: music empathizers (ME) focus on emotional aspects of music, music systemizers (MS) on structural aspects) might affect pain and stress when listening to different music, depending on gender.

Method: 61 healthy male/female ME/MS (age: M=24.2, SD=3.89) listened to stimuli during a cold pressor test on 3 days (1 condition per day: researcher-selected or participant-selected music, sound of lapping water; random order). Pain intensity and tolerance, subjective stress, heart rate (HR), parameter RMSSD, salivary alpha-amylase (sAA) and cortisol (sCort) were repeatedly measured.

Results: Multilevel analyses showed sig. 4-way interactions (MLS, Gender, Condition, Time) for pain intensity (p=.001), subjective stress (p=.002), HR (p<.001), RMSSD (p=.01). Post-hoc tests revealed sig. differences for pain intensity and HR. The 4-way interactions were not sig. for sAA or sCort.

Conclusion: The study provides new insight into the role of MLS on pain and stress. The MLS can affect pain intensity and HR, depending on gender, and should be considered as a modulator for individualized pain and stress management.

Primary authors: MAIDHOF, Rosa M. (Department of Clinical and Health Psychology, Faculty of Psychology, University of Vienna, Austria; The Stress of Life (SOLE) – Processes and Mechanisms Underlying Everyday Life Stress, University of Vienna, Austria); WUTTKE-LINNEMANN, Alexandra (University Medical Hospital Mainz, Germany; Center for Mental Health in Old Age, Landeskrankenhaus, Mainz, Germany); KAPPERT, Mattes B. (Department of Psychosomatic Medicine, Asklepios Clinic Bad Wildungen, Germany); SCHWERDTFEGER, Andreas (Department of Health Psychology, University of Graz, Austria); KREUTZ, Gunter (Department of Music, Carl von Ossietzky University of Oldenburg, Germany); NATER, Urs M. (Department of Clinical and Health Psychology, Faculty of Psychology, University of Vienna, Austria; The Stress of Life (SOLE) – Processes and Mechanisms Underlying Everyday Life Stress, University of Vienna, Austria)

Presenters: MAIDHOF, Rosa M. (Department of Clinical and Health Psychology, Faculty of Psychology, University of Vienna, Austria; The Stress of Life (SOLE) – Processes and Mechanisms Underlying Everyday Life Stress, University of Vienna, Austria); WUTTKE-LINNEMANN, Alexandra (University Medical Hospital Mainz, Germany; Center for Mental Health in Old Age, Landeskrankenhaus, Mainz, Germany); KAPPERT, Mattes B. (Department of Psychosomatic Medicine, Asklepios Clinic Bad Wildungen, Germany); SCHWERDTFEGER, Andreas (Department of Health Psychology, University of Graz, Austria); KREUTZ, Gunter (Department of Music, Carl von Ossietzky University of Oldenburg, Germany); NATER, Urs M. (Department of Clinical and Health Psychology, Faculty of Psychology, University of Vienna, Austria; The Stress of Life (SOLE) – Processes and Mechanisms Underlying Everyday Life Stress, University of Vienna, Austria)

Session Classification: RG Stress und Stressbewältigung

Track Classification: Gesundheitspsychologie