
Berichte

Poster-Abstracts des 20. Symposiums der DGfMM „Die Vielfalt der Musikermedizin“ 19.–20. November 2021, online

The role of genetic predisposition in musician's dystonia

JOHANNA DOLL-LEE¹, ANDRÉ LEE^{1,2}, ECKART ALTENMÜLLER²

¹Neurologische Klinik und Poliklinik, Klinikum rechts der Isar, Technische Universität München

²Institut für Musikphysiologie und Musikermedizin, Hochschule für Musik, Theater und Medien Hannover

E-mail: johanna.doll@tum.de

Objective: Musician's dystonia (MD) leads to involuntary cramping of the affected limb at the instrument. Risk factors include genetic predisposition and workload/practice time. We hypothesized that with genetic predisposition,

- less practice time is needed to elicit dystonia
- MD occurs earlier
- outcome of dystonia is worse
- gender differences exist

Methods: We sent a questionnaire to 663 patients with MD (369 answered) and assessed onset-age dystonia progression, practice time and family history. We applied t-tests, Wilcoxon rank-sum tests and chi-square tests. Level of significance was $\alpha=0.05$.

Results: Patients with genetic predisposition developed MD after less practice time, onset of symptoms was earlier and more often reported a deterioration of symptoms, confirming our first 3 hypotheses.

Male musicians were more commonly affected with MD (79% men). However, in the female group the relative proportion of patients with a positive family history was higher than in the male group.

Discussion: Our data show that genetic predisposition has a negative impact on onset-age, susceptibility and prognosis of dystonia. The higher proportion of patients with a positive family history in the female group might reflect behavioral differences between male and female musicians, with men being more prone to excessive practice and thus higher risk of MD.

Effekte eines hochintensiven Intervalltrainings (HIIT) bei Musiker:innen mit Auftrittsangst

ISABEL FERNHOLZ^{*1,2,6}, ANTONIA BENDAU^{*2,3}, JENNIFER MUMM^{*1,2,7}, PHILIPP DÜKER², DELIA SCHINKOREIT², KERSTIN WEINMÜLLER², ALBARA BANOUN², ANDREAS STRÖHLE^{1,2}, ALEXANDER SCHMIDT^{1,5,6}, JENS PLAG^{1,2}

¹ Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin and Humboldt Universität zu Berlin, Berlin Center for Musicians Medicine (BCMM), Klinik für Audiologie und Phoniatrie, Luisenstr. 13, 10117 Berlin