The Role of Progressive Muscle Relaxation (PMR) on Subjective Pain Perception & Music Performance Anxiety



Intro

Making music at a high level requires an equally high level of physical and mental commitment. Often, due to the constant performance demands, the regenerative aspect falls by the wayside and manifests itself, i.e. in

- physical pain [1] or in
- increasing music performance anxiety [2].

PMR

is already widely used in the medical field to treat pain [3] and anxiety symptoms [4], and this relaxation method is also recommended for professional musicians and conservatoire music students in music medicine and music psychology

RQ

Does the use of PMR have an impact on the subjective perception of pain and perceived stage fright in music students?



in Music Students

Wait list control group design

Online-Intervention

6 weeks audio files à 20-30 min. 1x per week



measurement after week 6



PMRmeasurement intervention weeks 1-6

ethods

Musculosceletal Pain Intensity and Interference Questionnaire for Musicians (MPIIQM-G) (Möller, Ballenberger & Zalpour, 2018)

Kenny Music Performance **Anxiety** Inventory (K-MPAI) (Kenny, 2017)

week 1

Expected Outcomes

- Significantly lower scores in the experimental group on both constructs, assuming a medium effect size
- Positive impact of PMR on subjective pain perception and stage fright
- · Effectiveness of the investigated six-week program

References

- [1] Ackermann, Driscoll & Kenny, 2012; Fishbein, Middlestadt, Ottati, Straus & Ellis, 1988; Gembris, Heye & Seifert, 2018; Spahn, & Möller, 2011
- [2] Kopitzki, 2008; Osborne & Kirsner, 2022; Spahn, Krampe & Nusseck, 2021
- [3] Bernstein & Carlson, 1992; Deepika, Thenmozhi & Kalabarathi, 2020; Meyer, Keller, Müller, Wöhlbier & Kropp, 2018
- [4] Cougle et al., 2020; Deepika et al., 2020; Pawlow & Jones, 2002; Rankin, Gilner, Gfeller & Katz, 1993
- [5] Spahn, C., Richter, B. & Altenmüller, E. (2010)