The Effects of Self-Selected Music on Exercise Performance

Brittany A. Benson, Paul T. Cuturufello, Michael J. Landram. The University of Scranton, Scranton, PA

Existing research has shown that listening to music may improve aerobic exercise performance, however, music’s effect on anaerobic exercise performance has not been fully investigated.

PURPOSE: The purpose of this study is to investigate the effects of self-selected music on anaerobic exercise performance. METHODS: Fifteen (8 men; 7 women) healthy college-aged students between 18-25 years old (20.1 ± 1.79 yrs) participated in this study. The testing consisted of three sessions: one initial familiarization trial followed by two testing trials [with music (M) and without music (NM)] completed in a randomized order. During the familiarization trial the participants’ body composition (bioelectrical impedance analysis) and one-repetition maximum (1RM) bench press were determined. Each participant also submitted five songs to be used during the music trial. These songs were reviewed to ensure an upbeat tempo (> 120 bpm). During each testing trial, the participants performed a warm-up at 50-60 % 1RM for 5-10 repetitions. Each participant then performed the bench press for a maximal number of repetitions using 70% 1RM for five sets with a 1 min and 15 sec rest period between sets. After a 10 min rest period, a 30 sec Wingate test was used to determine total work, and relative peak power. RESULTS: During the M condition there was a significant increase in total work (M: 16121.8 ± 4287.3 kJ; NM: 15021.7 ± 4370.6 kJ; p=.024), relative peak power (M: 44.6 ±8.4 W; NM: 41.4 ± 8.4 W; p=.014), and the total number of bench press repetitions (M: 41.7 ± 8.7 reps; NM: 38.3 ± 8.1 reps; p=.001). CONCLUSION: Overall, self-selected music had a positive effect on anaerobic exercise performance. The results from this study may help to enhance exercise performance by using self-selected music as a motivational tool.