

Abstract

Effect of Non-Verbal Music on Vital Signs of Patient Before and After Impacted Third Molar Surgery (Semi Experimental)

Introduction: Music therapy does not have any complications in patients, moreover, it is simple, cheap and without risk, and it is more acceptable for patients than pharmaceutical methods. Therefore, the present study was conducted semi-experimentally with the aim of investigating the effect of Non-Verbal Music on the vital signs of patients before and after Impacted Third Molar Surgery.

Methods and Material: This semi-experimental study was conducted in two parallel groups of 35 people in the age range of 18 to 40 years. Patients who had tooth extraction surgery on even days were included in the test group and patients who had surgery on odd days were included in the control group and the Non-Verbal Music was played for 30 minutes to the patients of the experimental group, but the Non-Verbal Music was not played for the control group. To collect systolic and diastolic blood pressure data from a digital sphygmomanometer (EasyLife KD-556, China) and for heart rate and SPO2 from a pulse oximeter (Rossmax sb100, Switzerland) and for respiratory rate, the number of breaths per minute was counted. After collecting the data, they were analyzed using paired t-tests, independent t-tests, and Mann–Whitney U test, and a significance level of less than 5% was considered, and the software used was SPSS version 22.

Results: The results showed that there is a significant difference in the changes of the patients' vital signs before and after the Impacted Third Molar Surgery in the case and control groups ($P < 0.05$). So that the average systolic blood pressure, diastolic blood pressure, heart rate and respiratory rate in the case group are lower than the control group, but in the spo2 variable, the average of the control group was lower than the case group.

Conclusion: Listening to the music is a systematic intervention and adjunctive therapy for patients before surgery that can help control vital signs.

Keywords: Blood pressure, heart rate, respiratory rate, Spo2.