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Effects of music therapy on physiological outcomes for post-operative total knee arthroplasty (TKA) patients (Article)

Aris, A.^a, Sulaiman, S.^{a,b}, Che Hasan, M.K.^c

^aDepartment of Nursing, Universiti Kebangsaan Malaysia, Cheras, Kuala Lumpur, Malaysia

^bInstitut Latihan Kementerian Kesihatan Malaysia (ILKMM) Melaka (Kejururawatan), Melaka, Malaysia

^cDepartment of Medical-Surgical Nursing, Kulliyah of Nursing, International Islamic University Malaysia, Kuantan, Pahang, Malaysia

Abstract

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This study aimed to investigate the effects of music on physiological outcomes for post-operative TKA patients in the recovery unit. Fifty-six patients from Hospital Melaka were randomized equally into intervention (IG) and control groups (CG). IG received the usual care and listened to selected music for 60 min, while the CG received only the usual care. Systolic blood pressure (SBP), diastolic blood pressure (DBP), heart rate (HR), respiration rate (RR) and oxygen saturation (SpO₂) were measured on arrival and after 10, 20, 30, and 60 min in the recovery unit. A significant difference between groups was observed in RR upon arrival ($U = 276.5$, $p = 0.029$) and after 10 min ($U = 291$, $p = 0.45$). Meanwhile, there were significant differences in DBP ($F = 3.158$, $p = 0.032$), RR ($\chi^2 = 15.956$, $p = 0.003$) and SpO₂ ($\chi^2 = 14.084$, $p = 0.007$) over time in the IG. Overall, listening to music immediately after TKA has an effect on DBP, RR, and SpO₂. © 2020 Elsevier España, S.L.U.

SciVal Topic Prominence ⓘ

Topic: Music Therapy | Headphones | Heavy Metal Music

Prominence percentile: 94.106 ⓘ

Author keywords

Music therapy Physiological outcomes Post-operative Recovery Total knee arthroplasty

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EMTREE medical terms:

adult article breathing rate controlled study diastolic blood pressure female heart rate human major clinical study male Melaka music therapy oxygen saturation randomized controlled trial remission systolic blood pressure total knee arthroplasty

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🔍 Sulaiman, S.; Department of Nursing, Universiti Kebangsaan Malaysia, Cheras, Kuala Lumpur, Malaysia;
email:suliza.bal@gmail.com

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