

Music and Sound-Based Intervention in Autism Spectrum Disorder: A Scoping Review

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Volume: 19 Issue: 8 Page: 626-636
DOI: 10.30773/pi.2021.0382

Published AUG 2022

Indexed 2022-09-08

Document Type Review

Abstract To map the evidence from the relevant studies regarding the use of music and sound-based intervention for autism spectrum disorder (ASD) using a scoping review study design. Scoping review was conducted according to the inclusion criteria using Google Scholar, PubMed, CINAHL, MEDLINE, and Scopus. The review was accomplished in five steps: 1) identify the inclusion criteria, 2) search for relevant studies, 3) studies selection, 4) data extraction and charting, and 5) data analysis and presentation. Four major themes emerged from 39 studies that matched the inclusion criteria as follows: 1) forms of sound therapy discussing methods of sound therapy and stim-ulus used, 2) duration of the intervention explain in terms of listening time and total listening sessions, 3) clinical characteristics of the intervention exploring the main interest of sound therapy study in ASD, and 4) evidence for the intervention effectiveness looking into the positive, negative, and mixed findings of previous studies. Each theme was explored to identify the knowledge gaps in sound -inter-vention therapy. This review demonstrated the need for further studies to address several issues including identifying the effectiveness of sound-therapy intervention for ASD according to the individual sound types, the minimum duration for ASD sound-therapy interven-tion and more details on the use of technology, and clinical features of the sound-therapy intervention. These elements are important to further demonstrate the effectiveness of sound therapy intervention for ASD children. Psychiatry Investig 2022;19(8):626-636

Keywords **Author Keywords:** [Keywords Autism](#); [Music therapy](#); [Early medical intervention](#); [Autism spectrum disorder](#); [Autistic disorder](#); [Acoustic stimulation](#)
Keywords Plus: [CHILDREN](#); [EDUCATION](#); [THERAPY](#); [IMPROVE](#)

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Categories/ Classification

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Funding agency	Grant number
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Ministry of Higher Edu- cation (MoHE) of Malaysia	

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Journal information

[PSYCHIATRY INVESTIGATION](#) ▾

eISSN 1976-3026

Current Publisher KOREAN NEUROPSYCHIATRIC ASSOC, RN 522, G-FIVE CENTRAL PLAZA 1685-8 SEOCHO 4-DONG, SEOCHO-GU, SEOUL 137-882, SOUTH KOREA

Research Areas Psychiatry

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