

**130 THE EFFECT OF MUSIC IN OPERATING ROOM:  
A SYSTEMATIC REVIEW**

Nafiseh Vahed,<sup>1,2</sup> Neda Kabiri,<sup>2,3</sup> Mina Mahami Oskouei,<sup>4</sup> Vahideh Zarea Gavvani,<sup>5</sup> Azam Asghari Khatooni,<sup>6</sup> Nahid Sadooghi<sup>7</sup>. <sup>1</sup>M.Sc. Medical Library & Information Science, Iranian Center of Excellence in Health Management; School of Management and Medical Informatics, Tabriz University of Medical Sciences, Tabriz, Iran; <sup>2</sup>Research Center for Evidence Based Medicine, Tabriz University of Medical Sciences, Tabriz Iran; <sup>3</sup>Ph.D Student in Health Policy, Iranian Center of Excellence in Health Management; School of Management and Medical Informatics, Tabriz University of Medical Sciences, Tabriz, Iran; <sup>4</sup>M.Sc. of Medical Library & Information Science, Iranian Center of Excellence in Health Management; Department of Medical Library & Information Science, Faculty of Management and Medical Informatics, University of Medical Sciences, Tabriz- Iran; <sup>5</sup>Associate Professor of Medical Library & Information Science, Iranian Center of Excellence in Health Management; Department of Medical Library & Information Science, Faculty of Management and Medical Informatics, University of Medical Sciences, Tabriz- Iran; <sup>6</sup>M.Sc. of Midwifery, Alzahra Hospital, Tabriz University of Medical Sciences, Tabriz, Iran; <sup>7</sup>M.Sc. Student of Medical Library & Information Science, School of Management and Medical Informatics, Tabriz University of Medical Sciences, Tabriz, Iran.

10.1136/bmjopen-2016-015415.130

**Background and aims:** Operating room is a quiet place and serious that there will be any extra noise to the distraction and interfere with verbal communication between people. However, numerous studies have shown that a significant relaxation in the operating room does not establish silence and may be used to achieve this purpose; the quiet sound of music. This study is a systematic review about the effects of music on the healing process of patients in the operating room.

**Methods:** We systematically reviewed the literature from Medline (PubMed), The Cochrane Library, Ovid, Scopus, Embase, ProQuest and Google Scholar published between 2000 and 2016. The search strategy included a combination of Mesh and Free Keywords, “Music”, “Music Therapy”, “Operating room”, “operating theatre”, “surgery room”, in all fields. Also the publication types of review and articles were included and meetings abstract, editorials, brief commentaries, letters, errata and papers that Subtopics were also excluded.

**Results:** Our initial search identified 480 abstracts. Application of the inclusion/exclusion criteria resulted in 17 articles for review. Findings indicated that music has a positive effect on patient perception of anxiety, pain and satisfaction some times, but it was relatively ineffective when there is a severe pain. Also findings showed that loud music played in operating theatres hinders the ability of nurses to hear instructions. On the other hand surgeons speed increase with music played in operating theaters.

**Discussion:** Music is a free way to improve patients stress and pain before and during surgery. Although there isn't enough evidence in order to draw a net conclusion about the effect of music in operating rooms.