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J. Garcia Gonzalez, M.I. Ventura Miranda, M. Requena Mullor, T. T. Parron Carreño, R. Alarcon Rodriguez



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Garcia Gonzalez J.^{a1}, Ventura Miranda M.I.^b, Requena Mullor M.^c, T. Parron Carreño T.^{c,d}, Alarcon Rodriguez R^c

^aRafael Mendez Hospital, The University of Lorca, Lorca, Murcia, Spain.

^bNurse at Torrecardenas Hospital, Almeria, Spain.

^cDepartment of Nursing, Physiotherapy and Medicine. The University of Almeria, Almeria, Spain.

^dAndalusian Council of Health in Almeria Province, Almeria, Spain

jessykagg85@gmail.com

m_miranda70@hotmail.com

mrm047@ual.es

tesifon.parron@ono.com

ralarcon@ual.es

ABSTRACT**Background**

Research indicates that anxiety during pregnancy may be a risk factor for the development of alterations in the mental health of the pregnant woman and of obstetric complications.

Objective

to investigate the effect of music therapy on maternal anxiety, before and after a non-stress test (NST), and the effect of maternal anxiety on the birthing process and birth size.

Methods

409 nulliparous women coming for routine prenatal care were randomized in the third trimester to receive either music therapy (n=204) or no music therapy (n=205) during an NST. Maternal anxiety was assessed using the Spielberger State-Trait Anxiety Inventory before and after the NST.

Results

After the NST, the women from the music group showed significantly lower scores in state anxiety (OR=0.87; p<0.001) as well as trait anxiety (p<0.001) than the control

¹ JESSICA GARCIA GONZALEZ, C/PLAZA DEL BARRANCO, N° 46, C.P. 18850 CULLAR (GRANADA), SPAIN, Telephone number: (+34) 699635857.

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