

2ND ADVANCED NURSING SCIENCE & PRACTICE

April 20-21, 2018 | Las Vegas, USA

Effects of music therapy on anxiety and vital signs in lung cancer patients undergoing PICC placement procedure: A clinical randomized controlled trial

Qianqian Mou

West China Hospital of Sichuan University, China

Introduction: Lung cancer is the most common malignant tumor in China. 19%-78% lung cancer patients suffer from depression and anxiety. At present, PICC plays a fundamental role in the safe administration of chemotherapeutic agents. And patients frequently express a high degree of anxiety in anticipation of the procedure. Literature yielded that music therapy as a kind of psychological intervention methods can improve anxiety.

Objective: The objective of this study was to examine the effects of music therapy on anxiety and vital signs (blood pressure, heart rate and respiratory rate) in Chinese lung cancer patients during receiving the peripherally inserted central catheter (PICC).

Methods: A randomized controlled clinical trial was conducted in the cancer center of a hospital from May to December 2017. 304 lung cancer patients who met the inclusion and exclusion criteria were recruited and randomly assigned to either intervention or control group respectively. The control group only received standard care, while the intervention group received standard care and music therapy during receiving PICC (30-45 minutes). Measures include anxiety and vital signs.

Results: A general linear model with univariate analysis showed that the intervention group patients had significant improvement in anxiety during PICC placement in the effects of group ($F=68.55$, $P<0.001$), time ($F=938.86$, $P<0.001$) and group time interaction ($F=204.56$, $P<0.001$). The intervention group patients had lower diastolic blood pressure and heart rate than that of the control group with statistical significance ($F=4.07$, $P=0.045$; $F=7.35$, $P=0.007$).

Conclusion: Music therapy can effectively reduce anxiety of lung cancer patients during PICC placement. It also can lower the patient's diastolic blood pressure and slow down heart rate during PICC placement

Biography

Qianqian Mou has completed her MD from Sichuan University. She is the RN of Department of Abdominal Oncology, Cancer Center, West China Hospital of Sichuan University for two years. She has published six papers about Oncology Nursing in China and Italy journals.

muqian1024@126.com

Notes: