



# Effect of psychological nursing intervention on the quality of life of breast cancer patients based on meta-analysis

Hanbing Li<sup>1</sup>, Junfeng Li<sup>2</sup>, Xiaoqing Wang<sup>1</sup>, Shuai Lin<sup>1</sup>, Wen Yang<sup>1</sup>, Hui Cai<sup>1</sup>, Xiaofen Feng<sup>3</sup>

<sup>1</sup>The Thyroid and Breast Surgery Department, The Affiliated Hospital of North Sichuan Medical College, Nanchong, China; <sup>2</sup>Cardiothoracic Surgery, Nanchong City Central Hospital, Nanchong, China; <sup>3</sup>Burn Plastic Surgery Department, The Affiliated Hospital of North Sichuan Medical College, Nanchong, China

*Correspondence to:* Xiaofen Feng, Burn Plastic Surgery Department, The Affiliated Hospital of North Sichuan Medical College, Nanchong, China. Email: 1823237062@qq.com.

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We thank Dr. Feng and others for their comments on systematic review and meta-analysis of the efficiency and safety of psychological intervention nursing on the quality of life of breast cancer patients published in *Gland Surgery* (1). In this paper, the literature search chapter supplements Scopus, Web of Science and Cochrane Library and other electronic databases. Looking carefully at *Fig. 2* and *Fig. 3*, it is found that allocation concealment is mentioned in five documents, so this part is explained again.

In a meta-analysis, the heterogeneity among studies has to be analyzed and its possible source has to be explored in detail, which are essential. Meta-regression analysis (MRA) is an extension of subgroup analysis (SGA) by combining the effects of different factors (2,3). If there are more than 10 studies included, the MRA and SGA are necessary to be performed (4). However, there are less than 10 studies in which each observation index is included in this paper, failing to satisfying the basic requirement on number of studies of MRA and SGA, so heterogeneity results are not performed with the MRA and SGA further. We hope you can understand this point. The heterogeneity of this paper may come from the fact that the sample size of the study is generally small, the nursing methods implemented by different research centers are different, and the follow-up time of patients included in the literature is relatively short. At the end of the discussion chapter, the heterogeneous sources of this paper are supplemented clearly, hoping it can

meet the related requirement.

In a meta-analysis, the publication bias can be determined by many different methods, such as the funnel plot method, safety loss method, Begg rank correlation method, and Egger regression method (5). In this paper, the funnel circles are found to be distributed near the midline symmetrically, which meant high accuracy and no publication bias of the enrolled studies. However, due to the relatively small space of the included literature, the reasons for possible bias are added in the discussion part. There may be potential selection bias, loss of visit bias, information bias, confounding bias, and recall bias in this paper. Please check the revised manuscript.

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*Ethical Statement:* The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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