The Conflict Status of Fertility Preservation Decision-Making and Their Impacts on Decision Results in Childbearing-Age Female Patients with Cancer: A Cross-Sectional Study

Carmen Chan

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

KC Choi

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

Ka Ming Chow

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

Can Gu

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

Inda Soong

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

Winnie Yeo

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

Khanh Nguyen

The Nethersole School of Nursing, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong

Abstract:

Introduction: Female cancer patients have conflicting decisions on fertility preservation. However, clinical discussions or relevant studies conducted in this area are few in mainland China and Hong Kong.

Aims: To explore the current conflict status of fertility preservation decision-making and their impacts on decision results in childbearing-age female patients with cancer.

Methods: A cross-sectional study was conducted involving 200 reproductive-age female patients with cancer from regional hospitals in Hong Kong. The participants were asked to complete a demographic and clinical information sheet, Decision Conflict Scale (DCS), Comprehensive Score for financial Toxicity -Functional Assessment of Chronic Illness Therapy (COST-FACIT), The Preparation

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for decision-making scale (Prep-DM), The Scale for Patient Satisfaction with Medical Decision Making (PSMDM), and European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire Core 30 (EORTCQLQ-C30). Data were analysed using univariate analyses, multiple regression, and moderation analysis.

Results: The mean total DCS score was 41.3 ± 25.5, indicating a considerably high level of decisional conflict in the study population. Participants with higher education levels reported significantly lower decisional conflict (P=.021). Multiple regression analyses indicated that decisional conflict was negatively associated with decision quality (regression coefficient = -0.24, 95%CI -0.40 to -0.08, P=.003). Moderation analysis showed that while decision support significantly impacted decision quality, it might not moderate the impact of decision conflict on this outcome.

Conclusions: The findings of this study build the foundation for further programmes promoting fertility preservation. The programme should put more effort into supporting the decision-making process for women with lower education levels. Moreover, to improve decision quality, the programmes should not only address decisional conflict but also focus on enhancing decision support.

Keywords:

Cancer; fertility preservation; childbearing age; decisional conflict; decision quality.