Research Article

Effect of Narrative Nursing Intervention Based on Targeted Nursing Intervention on Anxiety and Nursing Satisfaction of Patients with Malignant Tumors Undergoing Chemotherapy

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Objective. To explore the effect of narrative nursing intervention based on targeted nursing intervention on anxiety and nursing satisfaction of patients with malignant tumors undergoing chemotherapy. Methods. 120 malignant tumor patients treated with chemotherapy in our hospital from January 2019 to January 2020 were selected as the research objects and randomly divided into group A and group B, with 60 cases in each group. The targeted nursing intervention was performed to group B, and the targeted nursing intervention centering on narrative nursing was performed to group A, so as to compare their distress thermometer (DT) scale scores, depression and anxiety scale scores, Medical Coping Modes Questionnaire (MCMQ) scores, and Functional Assessment of Cancer Therapy-General (FACT-G) scores for quality of life and nursing satisfaction. Results. After nursing intervention, group A obtained 5.00 ± 1.20 points in the DT score, which were significantly lower than group B (P < 0.05); and group A achieved significantly lower depression and anxiety scale scores (P < 0.001), better MCMQ scores (P < 0.05), and higher FACT-G scores (P < 0.05) and nursing satisfaction (P < 0.05) than group B. Conclusion. The targeted nursing intervention based primarily on narrative nursing can greatly reduce negative emotions, alleviate anxiety, and improve confidence in treatment and quality of life for malignant tumor patients undergoing chemotherapy, with higher nursing satisfaction, which should be promoted and applied in the practice.

1. Introduction

The pathogenic factors of tumors are complicated. With the changing environment nowadays, the number of patients suffering from malignant tumors worldwide is increasing year by year, and most of them have an insidious onset and are often at the end stage of the disease when diagnosed, at which time chemotherapy has become the first choice to prolong the survival time of patients [1–3]. Chemotherapy, although it suppresses the condition, leads to corresponding adverse reactions and toxic side effects in patients. During the long-term course of chemotherapy, patients tend to have serious psychological burden and negative emotions such as hopelessness, depression, and anxiety that seriously affect their physical and mental health because of body function decline, increasing economic pressure, self-cognitive disorder, and reduced self-efficacy [4–7]. In current practice, the routine chemotherapy nursing mode usually oriented to the completion of a chemotherapy task is often adopted, but its application effect needs to be improved because it is not individually different and the nursing personnel cannot evaluate and intervene on the psychological status of patients. With the increasing attention paid to humanistic nursing, narrative nursing has been gradually applied to the clinic, which mainly refers to the nursing mode that the nursing personnel physically carry themselves into the patient’s place by communicating and listening, deeply grasp the actual problems faced by the patient, propose targeted responses to resolve the patient’s dilemma, and then alleviate their negative emotions [8–11]. Applying narrative nursing
2. Materials and Methods

2.1. General Information. 120 malignant tumor patients undergoing chemotherapy treated in our hospital from January 2019 to January 2020 were selected for the study and randomly divided into group A and group B, with 60 cases in each group and no statistical difference in their general information \((P > 0.05)\); see Table 1. The study was approved by the Hospital Ethics Committee.

2.2. Inclusion Criteria. The inclusion criteria of the study were as follows. (1) The patients or their family members fully understood the study process and signed informed consent; (2) the patients were diagnosed as malignant tumor after examination and had the need for chemotherapy \([12]\); (3) the DT scores of the patients were more than 4 points \([13]\); and (4) the estimated survival time of the patients was more than 6 months.

2.3. Exclusion Criteria. The exclusion criteria of the study were as follows. (1) The patients had mental problems or were unable to communicate with others; (2) the patients had other organic diseases; (3) the functional status scores of the patients were less than 3 points \([14]\); and (4) the patients were unclear about their condition \([15]\).

2.4. Methods. Targeted nursing intervention was performed to group B with the following specific steps. (1) The nursing personnel should master the detailed personal information of patients, so as to give careful targeted nursing and intervention on routine medication to patients. (2) Malignant tumor patients undergoing chemotherapy usually had a low tolerance, and after multiple times of chemotherapy, they were prone to have unhealthy psychological state because of the decreased body condition and economic status. At this time, the nursing personnel should increase the frequency of communication with patients during chemotherapy, tell patients about the need of chemotherapy, and inform patients about common adverse reactions, thus alleviating the patients’ confusion and enhancing their beliefs about treatment; for the patients with more serious negative emotions or a tendency to experience major anxiety or depression, special psychotherapy should be conducted immediately. (3) The targeted diet during chemotherapy for patients was proposed according to their dietary preferences, e.g., more fresh fruits and no durian for breast cancer patients; patients should eat more food such as eggs and fish everyday while reducing the intake of spicy food to avoid CNS irritation. (4) The nursing personnel should carry out environment-targeted care to reduce the effect of noise, smell, temperature, and other factors on patients and encourage patients to maintain a regular pattern of rest to reduce their mental stress.

Targeted nursing intervention centering on narrative nursing was performed to group A, with the following specific steps. (1) Before treatment, the nursing personnel should comprehensively memorize the patients’ information and have a one-on-one communication in the form of personal intervention with the patients in a private place, so as to lay a good foundation for targeted nursing. (2) In each chemotherapy cycle, the nursing personnel should communicate with the patients in private three times, of which the content should be proposed according to the actual situation of the patients and in combination with the personal care details, and each communication should not be less than 1 hour and should follow the will of the patients. Instead of enforcing interference with patients who have a low desire for private communication, communication should be transferred to routine nursing in a subconscious manner, thereby elevating the frequency of daily communication with patients. (3) At the first communication, the nursing personnel must combine the psychological characteristics of the patients to establish a good trusting relationship with them, analyze the patients’ anxiety and carry out corresponding communication by interpreting the personal data, guide the patients to pour out his or her true thoughts, and encourage the patients to speak up the inner pain and uneasiness. And for the shy patients, the nursing personnel should proactively ask about their living situation in daily chat; the nursing personnel should not be critical to the responses of patients and should only be empathetic by putting themselves in the benefit of patients so that patients would feel that they could rely on the nursing personnel. (4) The nursing personnel should explore and express the problem with the patients and analyze the impact that the problem has on the patients’ mind and life; during communication, the nursing personnel should make clear what factors will enhance and weaken the psychological anxiety and the key points that affect the problem, thereby drawing up the targeted nursing programs that suit the remedy to the case. (5) In the communication process, the nursing personnel should discover the good side of the patients’ lives and bring the best in life to therapy so that the patients could take control of their own lives again, build up confidence in the treatment, and hold hope for the future. (6) The nursing personnel should extract the information obtained in the communication and apply it in targeted nursing to provide patients with individually different nursing regimens.

2.5. Observation Criteria. When issuing questionnaires, the study group gave only simple instructions about the questionnaires and made no other hints. The questionnaires were taken back after filling out by the patients, and the integrity was verified.
DT: based on the screening tool for assessing psychological distress, the distress thermometer (DT) was selected to measure distress in patients on a scale of 0–10, with higher levels indicating more distress [16]. Its reliability of the screening tool has been confirmed by the domestic and foreign literature.

Depression and anxiety scale scores: the Self-Rating Anxiety Scale (SAS) and Self-Rating Depression Scale (SDS) were selected as the scoring basis, with 20 items each and the total maximum score of 100 points. Higher scores indicated that the negative emotion of patients was more serious [17]. Its reliability of the scales has been confirmed by the domestic and foreign literature.

Medical Coping Modes Questionnaire (MCMQ): it included three coping modes, namely, confrontation, avoidance, and acceptance-resignation, which consisted of different items. The questions for the confrontation worded toward increasing levels, and the questions for the other two dimensions worded toward decreasing levels. The Chinese version of the MCMQ included 20 items and should be filled in by the patients themselves [18]. The reliability of the MCMQ has been confirmed by the domestic and foreign literature.

Functional Assessment of Cancer Therapy-General (FACT-G): it stood for the quality of life in cancer patients for the past 7 days, including physical, social/familial, emotional, and functional well-being. On a scale of 0–180 points, the higher scores indicated better quality of life in patients [19]. The reliability of FACT-G has been confirmed by the domestic and foreign literature.

Nursing satisfaction: the nursing satisfaction of patients was investigated by the self-proposed scale of our hospital, and the items included the nursing error rate, attitude toward patients, and nursing service quality. On a scale of 0–5 stars, 5 stars indicated fully satisfied, 3–4 stars indicated satisfied, and 2 stars and less indicated dissatisfied. The number of satisfied patients was counted.

2.6. Statistical Processing. In this study, data processing software was SPSS 20.0, picture drawing software was GraphPad Prism 7 (GraphPad Software, San Diego, USA), items included were enumeration data and measurement data, methods used were $X^2$ test and $t$-test, and differences were considered statistically significant at $P < 0.05$.

3. Results

3.1. Comparison of DT, SAS, and SDS Scores. After nursing intervention, the DT, SAS, and SDS scores of group A were significantly lower than those of group B ($P < 0.05$); see Figure 1.

### Table 1: Comparison of general information.

| Group | Group A ($n = 60$) | Group B ($n = 60$) | $X^2/t$ | $P$ |
|-------|-------------------|-------------------|--------|-----|
| Gender |                   |                   | 0.034  | 0.853 |
| Male   | 25                | 26                |        |      |
| Female | 35                | 34                |        |      |
| Age (years) | 32–74  | 33–74  | 0.018  | 0.986 |
| Mean age | 41.21 ± 6.20 | 41.23 ± 6.21 |        |      |
| Tumor category |       |       |        |      |
| Lung cancer | 10  | 11    | 0.058  | 0.810 |
| Breast cancer | 12  | 11    | 0.054  | 0.817 |
| Digestive tract malignant tumor | 12  | 13    | 0.051  | 0.822 |
| Others | 26                | 25                | 0.034  | 0.853 |
| Disease stage |       |       |        |      |
| I      | 12                | 11                | 0.054  | 0.817 |
| II     | 30                | 30                | 0.000  | 1.000 |
| III    | 18                | 19                | 0.039  | 0.843 |
| Basic diseases |       |       |        |      |
| Diabetes | 12  | 11    | 0.054  | 0.817 |
| Hypertension | 15  | 14    | 0.046  | 0.831 |
| Coronary heart disease | 8   | 9     | 0.069  | 0.793 |
| Lung disease | 8   | 10    | 0.261  | 0.609 |
| Educational level |       |       |        |      |
| Junior high school or lower | 12  | 10    | 0.223  | 0.637 |
| Senior high school | 28  | 30    | 0.134  | 0.715 |
| College or higher | 20  | 20    | 0.000  | 1.000 |
| Monthly income (yuan) |       |       |        |      |
| >3000  | 24                | 23                | 0.058  | 0.810 |
| ≤3000  | 36                | 37                | 0.035  | 0.852 |
Figure 1(a) indicates that the DTscores of both groups before intervention were not statistically different (6.30 ± 1.56 vs. 6.32 ± 1.54, P > 0.05); and after intervention, group A obtained significantly lower DT scores than group B (5.00 ± 1.20 vs. 5.89 ± 1.52, P < 0.05).

Figure 1(b) indicates that the SDS scores of both groups before intervention were not statistically different (59.65 ± 6.65 vs. 59.54 ± 6.52, P > 0.05); and after intervention, group A obtained significantly lower SDS scores than group B (45.11 ± 65.32 vs. 51.21 ± 66.35, P < 0.05).

Figure 1(c) indicates that the SAS scores of both groups before intervention were not statistically different (55.98 ± 5.98 vs. 55.48 ± 5.68, P > 0.05); and after intervention, group A obtained significantly lower SAS scores than group B (40.12 ± 5.69 vs. 50.12 ± 5.65, P < 0.05).

3.2. Comparison of MCMQ Scores. After nursing intervention, the MCMQ scores of group A were significantly better than those of group B (P < 0.05); see Table 2.

3.3. Comparison of FACT-G Scores. After nursing intervention, the FACT-G scores of group A were significantly higher than those of group B (P < 0.05); see Table 3.

3.4. Comparison of Nursing Satisfaction. The nursing satisfaction of group A was significantly higher than that of group B (P < 0.05); see Figure 2.

The number of fully satisfied patients in group A and group B was 28 and 18, respectively. The number of satisfied patients in group A and group B was 30 and 32, respectively. The number of dissatisfied patients in group A and group B was 2 and 10, respectively (X² = 5.926, P = 0.015).

4. Discussion

Humanity care is the core spirit of the nursing discipline, and empathy is necessary for nursing personnel to perform nursing interventions. Narrative nursing refers to the way in which nursing personnel view the problem through the
that targeted nursing can reduce patients' hostility and enable the patients to experience targeted psychological nursing, promote their trust in nursing personnel, and increase their positivity over treatment [24]. The study results showed that, after intervention, group A achieved 22.65 ± 2.68 points in the MCMQ score, which were significantly better than group B ($P < 0.05$), proving that such nursing mode could change the anxious state of malignant tumor patients undergoing chemotherapy for them to take control of their own lives again and fully activate their positive quality; hence, patients in group A faced their difficulties with a more positive attitude.

Compared with group B after nursing intervention, group A obtained a significantly higher score in FACT-G ($P < 0.05$), a scale to evaluate the quality of life of cancer patients, which was consistent with the findings of Beesley and others. In their study, patients in the experimental group received the targeted nursing intervention centering on narrative nursing, and patients in the control group were given the targeted nursing intervention, and it was concluded that the total FACT-G scores of the experimental group were 74.12 ± 12.56 points, which were remarkably higher than those of the control group ($P < 0.001$) [25], verifying the fact that the targeted nursing intervention focused on narrative nursing had a positive effect on improving the quality of life in patients and comprehensively promoting the daily life status. With better psychological status and quality of life, the anxiety would be alleviated; hence, the nursing satisfaction of group A was significantly higher than that of group B ($P < 0.05$), indicating that such nursing mode could effectively lower the possibility of nurse-patient dispute and improve the nursing quality.

In conclusion, the targeted nursing intervention based primarily on narrative nursing can greatly reduce negative emotions, alleviate anxiety, and improve confidence in treatment and quality of life for malignant tumor patients undergoing chemotherapy, with higher nursing satisfaction, which should be promoted and applied in the practice.

### Data Availability

The data used to support the findings of this study are available from the corresponding author upon reasonable request.

### Conflicts of Interest

The authors declare no conflicts of interest.

### Authors’ Contributions

Huixia Xu and Guoping Xu contributed equally to this article.
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