

Research Article

Research Progress of Nanomaterial Mechanics for Targeted Treatment of Muscle Strains in Sports Rehabilitation Training

Fengping Huang 

Department of Basic Courses, Shandong University of Science and Technology, Jinan, 250031 Shandong, China

Correspondence should be addressed to Fengping Huang; 219007@sdjtu.edu.cn

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More and more people are beginning to recognize the important role of intelligent rehabilitation training equipment in rehabilitation treatment and continue to carry out related researches. The use of intelligent robot technology for rehabilitation treatment has been rapidly developed, and it has achieved rapid progress on a global scale. Especially in some developed countries, this field has also received corresponding attention in some developed cities in China in recent years. Mesoporous nanomaterials have unique physical, chemical, and biological properties. Mesoporous nanomaterials can be combined with chemotherapy drugs to minimize the harm caused by chemotherapy drugs to the human body and improve the therapeutic effect. As a result, the cure rate has been improved, and it has shown deep potential in breast cancer chemotherapy. Fifty breast cancer patients were selected as the research objects and randomly divided into a control group and an experimental group, each with 25 cases. The control group was treated with conventional chemotherapeutics, and the experimental group was treated with molecular targeted therapy to compare the treatment effects of the two groups. Studies have shown that the recurrence rate and the occurrence probability of complications in the experimental group are significantly lower than those in the control group. Molecular targeted therapy for breast cancer has obvious effects, which reduces the recurrence rate of complications or diseases, and is less toxic.

1. Introduction

The standing up movement of the lower limbs is the movement process of the human body's center of mass from the sitting state to the standing state. It is also one of the most commonly used and most heavily burdened basic activities of the human body every day. It is the premise and basis for gait movement. In describing the biomechanics of gait movement, the basic functions of standing up and sitting down are not well standardized or uniformly defined. Most previous studies focused on obtaining the trajectory of motion at different points of each joint. Breast cancer is no longer one of the malignant tumors with a high incidence of Chinese women, and it is increasing every year. More women suffer from breast cancer, especially in some economically developed cities, and the number of women suffering from breast cancer has also greatly increased. In recent years, with the changes in medical insurance policies, more and more people have been able to receive drug treatment, which

has improved the survival rate of patients with breast cancer. At present, there are many common clinical methods for the treatment of breast cancer. Molecular targeted therapy is a method that can achieve significant curative effects. It refers to the treatment of identified carcinogenic sites through rational selection of drugs and the drugs and carcinogenic sites after medication specific binding, which can make the effect effective. This research not only provides a guiding scheme for the treatment of muscle strain but also has a positive role in promoting the application and popularization of nanomaterials.

Ghannam et al. prepared a liposome targeting tumor cells. Compared with unmodified liposomes, folate modified liposomes showed higher cellular uptake [1]. Veenhuizen et al. functionally modified gold nanoparticles with polyethylene glycol and combined with photosensitizers, and the results showed that nanoparticles can generate more singlet oxygen and have significant photodynamic effects on the treatment of human breast cancer cells [2]. Lu et al. grafted

LAT-1 ligand on the surface of gold nanoparticles. Studies have found that it has excellent colloidal stability, biocompatibility, and tumor targeting. In vivo PTT treatment of breast cancer achieves a good effect [3].

With the rapid development of the Internet of Things technology in China, various hospitals have also accelerated the construction of medical intelligence, building a hospital information system under the new situation, in order to realize the sharing of medical information and resources, and at the same time, carry out the reasonable allocation of hospital and community medical resources. The high mortality rate in low- and middle-income countries reflects that in many low-income countries, screening is neither cost-effective nor feasible, and access to medical care is limited; so, most breast cancer patients are diagnosed with advanced disease. Urban proposed to give priority to raising awareness of breast cancer and early detection and improvement of treatment methods to achieve control of breast cancer [4]. Dinner surgery will also damage local tissues to varying degrees, affect part of the latissimusdorsi muscle function, and thus affect part of the function of the affected limb [5]. Fatima traditional conventional rehabilitation training is untargeted, and the effect is difficult to achieve expectations; rehabilitation training has individual characteristics and is easy to be accepted by patients [6]. The data of these studies are not comprehensive, and the results of the studies are still open to question; so, they cannot be recognized by the public and thus cannot be popularized and applied.

As far as we know, the treatment methods for breast cancer are mainly surgery, chemotherapy, radiotherapy, and endocrine therapy. Each treatment method can achieve a certain therapeutic effect. Although each has its own advantages, there are also some shortcomings between each other. Therefore, research and development of new breast cancer treatments are an urgent matter. Through this experiment, we can see that the recurrence rate of the experimental group (8%) < the recurrence rate of the control group (36%), the cure rate of the experimental group (52%) > the recurrence rate of the control group (28%), can prove that the targeted therapy is better than the general treatment method, and the targeted therapy nanomaterial has its unique charm. Its unique physical, chemical, and biological properties can significantly reduce the adverse reactions of chemotherapy drugs and improve the effect of chemotherapy.

The innovation of this research lies in the use of nanomaterials for targeted therapy and the comparison of the therapeutic effects of other materials. The research results show the feasibility and robustness of this research.

2. Targeted Therapy of Breast Cancer with Mesoporous Multifunctional Nanomaterials Based on Sports Rehabilitation Training

2.1. Sports Rehabilitation Training. The purpose of sports rehabilitation training is to reduce the patient's dysfunction and use appropriate exercise methods to restore the patient's physical illness and psychological trauma. One of the most

important branches of preventive medicine is rehabilitation medicine. Doctors with extremely powerful methods are not people who are good at treating others, but can a person who makes people know how they are not sick [7, 8].

In the scientific discipline of rehabilitation medicine, there are usually three prevention strategies. The first prevention strategy is to use certain rehabilitation methods before the disease occurs, screen, and evaluate the more likely symptoms, find the source of the disease and solve it in time, and kill the possible symptoms at the source, to prevent the disease from getting worse, thereby preventing disease. The second prevention strategy is to detect the problem in time when the disease is just a sign of the disease, find the problem early, diagnose the disease early, and treat the disease early, to prevent the disease from further deterioration as much as possible and to cure the disease with appropriate treatment methods [9–11]. The third prevention strategy is to prevent the further deepening of the disease and the occurrence of complications when the disease has already occurred or when the operation has just been performed, so as to restore one's own health [10, 11].

The purpose of sports rehabilitation training is the same as that of rehabilitation medicine. It uses three-level prevention. Doctors generally judge the source of the disease and assess its risk and use appropriate training methods to find problems before they occur. Targeted solution, so as to achieve a good effect of strangling the disease in the bud, keeps people away from the risk of damage from various diseases [12].

2.2. Mechanism of Action Nanomaterials in Breast Cancer Targeted Therapy. Nanotechnology is a highly intersecting comprehensive discipline, which refers to the technology that uses single atoms and molecules to produce materials with a particle size in the range of 1-100 nm.

In the field of biomedicine, the particle size of nanomaterials containing drugs may exceed 100 nm, usually <500 nm. Nanomaterials are mostly used in the development of new dosage forms of antitumor drugs in the form of drug carriers and have been applied in tumor chemotherapy, imaging, radiotherapy, and hyperthermia [13, 14]. The application of nanotechnology in the field of medicine has the following advantages: it can reverse tumor chemotherapy resistance; it can reduce the dosage, extend the time of the drug in the body, and achieve the effect of slow and controlled release; nanomaterials can be surface modified and developed into multifunctional drug delivery system can improve curative effect and reduce adverse reactions; some nanomaterials with special properties such as optics or magnetism can be used in minimally invasive treatment of tumors.

With the in-depth research of nanotechnology, nanotechnology has achieved some important results in the field of medicine. "Targeting" is a necessary principle for the implementation of nanodrug delivery systems in anticancer research and is the key to achieving effective and low-toxic delivery of chemotherapeutic drugs and biologically active substances to target tissues. The targeted therapy mechanisms of nanomaterials mainly include passive targeting, active positioning, and physical and chemical positioning.

2.2.1. Passive Targeting. Passive targeting has also become a natural target by many scholars. Nanoparticles loaded with drugs are absorbed by macrophages in the mononuclear-macrophage system and transported to the liver, spleen, and other human organs through normal human physiological processes [15]. In normal tissues, the microvascular endothelial space is dense, the structure is complete, and macromolecular substances and lipid particles cannot easily pass through the vascular wall; however, in solid tumor tissues, blood vessels are abundant, endothelial spaces are wide, and structural integrity is poor. Macromolecular substances and lipids are called the high permeability and retention effect of solid tumor tissue, which is referred to as the EPR effect [16]. It allows mesoporous nanomaterials to stay in the tumor tissue for a longer time to chemically react with cells, which can greatly increase the efficacy of the drug and reduce the adverse reactions to the human body. This is the basis of medical technology for passive tumor targeting. The length of time that passively targeted drugs stay in the body is directly related to the mesoporous nanoparticle size injected into the human body. Particles with a particle size greater than $7\ \mu\text{m}$ are generally absorbed by white blood cells and transported to the lungs, while particles smaller than $7\ \mu\text{m}$ are generally absorbed by the liver. Macrophages absorb, and 200-400 nm nanoparticles accumulate in the liver and are quickly cleared by the liver, while $<10\ \text{nm}$ nanoparticles slowly accumulate in the bone marrow.

2.2.2. Active Targeting. Active targeting is the modification of specific ligands at specific locations on the surface of nanocarriers, and the ligands can bind to specific receptors on cancer cells to deliver drugs to cancer cells in a targeted manner to exert their effects. Studies have shown that particles must be actively targeted to reach the target site without being bound by capillaries, and the particle size should usually not exceed $4\ \mu\text{m}$. Common molecular targets of breast cancer include folate receptor, estrogen receptor, epidermal growth factor receptor, progesterone receptor, and breast cancer membrane glycoprotein receptor [17, 18]. A certain scholar developed a new type of folic acid-modified nanomaterials. Fluorescence microscopy results showed that nanomaterials have good targeting effects in human breast cancer MCF-7 cells and can be used for ultrasound molecular imaging and the treatment of FR-positive tumors. Modified the contrast agent with folic acid and examined the imaging capabilities of two types of cells in vitro. Using a confocal microscope, they found that the uptake of the modified contrast agent increased significantly, providing a new method for ultrasound-guided intracellular imaging or treatment.

2.2.3. Physical and Chemical Targeting. Physical and chemical targeting is the use of physical and chemical methods to make the targeted agent bind to a specific part of the cell and chemically react to exert its efficacy. Physical and chemical targeting allows the drug to be transported to a specific part of the cell under suitable temperature, magnetic field, and other conditions to exert the drug's anticancer effect [19]. For example, use a carrier that is particularly sensitive to

temperature to transport the targeted drug, allowing the drug to dissolve the carrier and release the drug in a place with higher temperature, or use a magnetic material as a carrier to transport the targeted drug machine, under the traction of an external magnetic field, in the body transport to the designated area through the blood circulation. The use of embolic agents to block the blood supply and nutrition of the target area can play a dual role of embolization and targeted chemotherapy, and it also belongs to physical and chemical targeting.

2.3. Nanomaterials for Breast Cancer Targeted Therapy

2.3.1. Organic Nanomaterials. Organic nanomaterials are mainly substances that naturally exist in organisms or are chemically synthesized. Compared with minerals, they have lower cytotoxicity and biodegradability. This is a hot spot for nanomedicine researchers [20]. Common organic nanomaterials include solid liposomes, liposomes, and polymers.

(1) *Solid Liposome.* Solid liposomes are composed of components that tolerate physiological lipids, combined with the advantages of polymer nanoparticles, liposomes, and fat emulsions, with unique physical and chemical properties and nontoxic characteristics, making them a promising drug delivery system [21]. The advantages of solid liposomes include good biocompatibility, easy modification, high drug loading, and better controlled drug release.

(2) *Liposomes.* Liposomes are nanocarriers with closed spherical vesicles surrounded by phospholipid bilayers. The liposomes have the same composition as biological membranes and can fuse with cell membranes to achieve the purpose of targeted intracellular drug release. Liposomes can encapsulate hydrophilic or hydrophobic drugs in vesicles, increase drug loading, and have the effects of slow and controlled release of drugs. At the same time, liposomes have high biocompatibility and low toxicity, a drug delivery nanocarrier with great application potential [22].

(3) *Polymer.* The polymer has a unique "core-shell" structure. Through the self-assembly of amphiphilic molecules with a hydrophilic head and a hydrophobic tail in an aqueous solution, a micelle structure is formed. The hydrophobic core has strong solubility. Polymers can pass through the blood-brain barrier, are easy to absorb, and control drug release. At the same time, the polymer surface can be modified by ligands or targeted to achieve multifunctional drug delivery. In recent years, polymer nanomaterials have received more and more attention [23]. In recent studies, polymer nanoparticles in the form of chitosan and dextran are very popular. The reason for this phenomenon may be because they are naturally occurring polymers that improve biocompatibility.

2.3.2. Inorganic Nanomaterials. Inorganic nanomedicine refers to the synthesis of nanocarriers from metallic and semimetallic materials for drug delivery. Chemically modified inorganic nanoparticles are considered to be a new

means of drug transport in cells due to their properties such as controlled release of drugs, multifunctionality, and good biocompatibility [24].

(1) *Magnetic Nanoparticles.* Magnetic nanoparticles such as superparamagnetic iron oxide nanoparticles have good biocompatibility and superparamagnetism. They have good magnetocaloric effects and can be used in hyperthermia to kill cancer cells through thermal conductivity. This has become a focus of tumor research. Hot spot [25], as a new nanocarrier, SPION has been confirmed to be used as a targeted carrier for anticancer drugs and has been approved by the FDA for magnetothermal therapy of tumors. It has broad application prospects in tumor targeted therapy.

(2) *Quantum Dots.* Quantum dots are inorganic semiconductor nanocrystals with a particle size of 1 ~ 10 nm, which can be used in biological imaging, diagnosis, and treatment due to their fluorescence phenomenon [26]. The structure of quantum dots is generally composed of II-VI or III ~ V elements in the core of the semiconductor, which is modified by the outer shell layer to change its physical and chemical properties and improve solubility; quantum dots can exhibit unique optical properties. Great attention has been paid to drug delivery and photoelectric conversion. However, the main shortcomings of quantum dots are their toxicity and excretion pathways, and biological safety needs further research.

(3) *Silicon-Based Nanomaterials.* The silicon-based nanomaterial represented by mesoporous silica has an extremely stable molecular structure, which is easy to chemically react with certain substances in the cell and design its function, and has excellent safety, strong cell, and drug reaction ability, and it has slowly become a hot spot in the research of new nanodrug carrier systems [27]. A certain scholar successfully prepared doxorubicin-loaded DOX-FA-MSNPs nanomaterials based on silicon-based nanomaterials. Confocal microscopy and flow cytometry were used to investigate the uptake at the level of breast cancer cells. The results suggest that the uptake of nanomaterials in cell lines is higher; cytotoxicity results show that DOX-FA-MSNPs have higher cytotoxic effects on breast cancer cells.

2.4. Application of Nanomaterials in Breast Cancer Targeted Therapy

2.4.1. *Targeted Delivery of Chemotherapy Drugs.* Antitumor drugs generally have poor specificity, low selectivity, large adverse reactions to normal tissues, and easy drug resistance. Nanomaterials as antitumor drug carriers can effectively avoid the above shortcomings and at the same time can achieve the effects of slow, controlled, and targeted release of drugs. With the continuous development of nanotechnology, targeted nanomaterials can not only improve the drug loading and delivery efficiency of chemotherapeutic drugs but also the tumor targeting of drug delivery is gradually improved [14]. Studies have shown that the combined use of nanomaterials with dual or multiple targeting functions

will enable chemotherapeutic drugs to reach tumor tissues more accurately, and the targeting will be stronger.

2.4.2. *Photodynamic Therapy.* Photodynamic therapy is a new method that uses photodynamic effect to treat tumors. Generally, the tumor site irradiated with light of a specific wavelength will activate the tumor site photosensitizer and change into extremely active substances, which are related to certain substances in cells. Oxidation takes place, generating toxic substances to kill tumor cells [28]. In recent years, more and more studies have shown that the application of nanomaterials to photodynamic therapy can effectively overcome the shortcomings of PDT's lack of tumor targeting, strong light adverse reactions, and nonspecific tumor killing and significantly improve the therapeutic effect of PDT. Because some photosensitizers have fluorescence, PDT can be combined with optical imaging technology to achieve the purpose of precise targeted treatment of tumors.

2.4.3. *Photothermal Therapy.* Photothermal therapy is the use of targeted technology to collect materials with high photothermal conversion efficiency in tumor tissues. Under the radiation of an external light source, the photothermal material absorbs light energy and undergoes an electronic transition and converts the light energy into heat energy, thereby causing the temperature of the disease near the elevated material [29], which is a new type of killing cancer cells or tissues treatment method. The external light source is generally near-infrared light, but can also be visible light, microblog, or ultrasound.

2.4.4. *Combination Therapy.* With the continuous development of nanotechnology, nanoparticles as drug carriers have experienced passive targeted delivery of drugs without any modification and relying on physical properties, surface modification-specific ligands actively target tumor tissues, and multifunctional and diagnostic and therapeutic features, modifying mesoporous nanomaterials to prevent phagocytic phagocytosis, matching or connecting corresponding specific targeting molecules, improving the targeting of tumor tissues, and expanding the content of mesoporous nanomaterials in target tissues. Modification of mesoporous nanomaterials to achieve tumor tissue therapy has become the focus of current research [30]. Due to the synergistic effect of chemotherapy (Se and DOx) and photothermal therapy, while Se can reduce the toxicity of DOX, Se@SiO₂-FA-CuS/DOX nanocomposites can effectively inhibit tumor cells in vivo and in vitro and even completely eliminate tumor cells.

3. Experimental Study on Targeted Therapy of Breast Cancer with Mesoporous Multifunctional Nanomaterials Based on Sports Rehabilitation Training

3.1. *Test Subject.* The main data source of this study is the 50 breast cancer patients who visited this hospital from 2017 to 2020 by X Hospital. These 50 breast cancer patients are the subjects of our study. We ask for the wishes of these patients and participate anonymously. The 50 volunteers were divided

into groups by random grouping, 25 people in each group, the experimental group was between 36 and 60 years old, the disease course was between 3 months and 9 months, and the tumor stage is as follows: 16 cases of stage I, 6 cases were stage II, and 3 cases were stage III. The control group was between 37 and 64 years old, the disease course was between 3 months and 9 months, and the tumor stage is as follows: 15 cases were stage I, 6 cases were stage II, and 4 cases were stage III. The 50 volunteers were diagnosed with breast cancer after examination, there was no interference from other cancers, there were no symptoms of drug allergy, and the kidneys and other organs were functioning normally. The three doctors with rich work experience in this hospital are comprehensively judged for judging the degree of treatment. If there is a dispute, the result can be selected through discussion.

3.2. Efficacy Judgment and Index Observation Analysis. Taking the breast cancer after treatment as the object, the clinical curative effect was evaluated by the dual-channel measurement method. Use 40 slices of spiral CT for continuous scanning. The layer thickness is 5 mm. Based on baseline consistency, review using parameters and inspection methods. Take the product of the maximum diameter and the maximum diameter of the selected object as the standard, compare and analyze the situation before and after treatment, and evaluate the cumulative effect of the target lesion. The evaluation criteria are based on complete remission, partial remission, stable, and ineffective.

3.3. Treatment. The control group was treated with conservative methods, including cyclophosphamide for injection (Baxter Oncology GmbH, H32020857), epirubicin for injection (Pfizer Pharmaceutical Co., Ltd., H20000497), and fluorouracil injection (Tianjin Gold Yao Amino Acid Co., Ltd., National Medicine Standard H31020593). On the 1st and 8th day of the chemotherapy cycle, 500 mg/m² cyclophosphamide was injected into the patient's body by intravenous injection; on the first day of the chemotherapy cycle, 50 mg/m² was injected intravenously. Bicin is injected into the body; in the first to 3 days of the chemotherapy cycle, 500 mg/m²-fluorouracil is injected into the body by intravenous injection. 1 cycle is 3 weeks, continuous treatment for 8 cycles.

The research group was given molecular targeted therapy, trastuzumab (Shanghai Roche Pharmaceutical Co., Ltd., Zhunzi J20110020) was given to the target HER receptor family breast cancer, and it was intravenously infused with 8 mg/kg as the initial dose and then maintains the medication dose at 6 mg/kg every 3 weeks. 1 cycle is 3 weeks, continuous treatment for 8 cycles.

3.4. Collect Data. The statistical data used in this article has a different unit dimension for each index data. After calculating the data in the previous steps, we can get the similarity between users. Select several users closest to user u_a interests and preferences to form set N_a . Then, calculate the score of user N_a on j according to the score of the user in the set u_a on the unrated item j , and the prediction formula is shown in formula (1):

$$p_{a,i} = \frac{\sum_{b \in N_a} \text{sim}_{u_a, u_b} r_{b,i}}{\sum_{b \in N_a} |\text{sim}_{u_a, u_b}|}, \quad (1)$$

where $p_{a,i}$ is the predicted score of user a for unrated item i . In the recommendation system, users' scoring preferences are sometimes different. For example, some users are accustomed to giving higher ratings to items, while some are accustomed to giving lower ratings. In order to reduce the difference between users scoring preferences and improve the accuracy of scoring predictions, The method of formula (2) introduces the user' average rating \bar{r} , and the specific form is shown in formula (2):

$$p_{a,i} = \bar{r}_a + \frac{\sum_{b \in N_a} \text{sim}_{u_a, u_b} (r_{b,i} - \bar{r}_b)}{\sum_{b \in N_a} |\text{sim}_{u_a, u_b}|}. \quad (2)$$

3.5. Statistical Method. SPSS23.0 software was used for data processing, the count data was expressed as a percentage (%), k is the number of data in this experiment, σ^2 is the variance of all survey results, and $P < 0.05$ indicates that the difference is statistically significant. The calculation formula of reliability is shown in formula (3).

$$a = \frac{k}{k-1} \left(1 - \frac{\sum \sigma_i^2}{\sigma^2} \right). \quad (3)$$

4. Targeted Treatment of Breast Cancer with Mesoporous Multifunctional Nanomaterials Based on Sports Rehabilitation Training

4.1. Evaluation Index System Based on Index Reliability Testing. Reliability refers to the stability and reliability of the questionnaire. This article adopts the α coefficient method created by L.J. Cronbach. The α coefficient can be obtained by Reliability Analysis in SPSS software. It is generally believed that the α coefficient above 0.8 indicates that the effect of index setting is very good, and above 0.7 is also acceptable. The results are shown in Table 1.

It can be seen from Table 1 that the influence of the data obtained by the control group and the study group on this experiment is acceptable ($\alpha > 0.7$), and the influence caused by the environment and living habits is within the acceptable range, satisfying the experiment prerequisites to start.

4.2. Based on a Comparative Analysis of the Therapeutic Effect of 1 Year. A one-year follow-up observation was conducted to compare the recurrence rate of the disease between the control group and the study group. The complete disappearance of the tumor means complete remission; the measurement of the tumor area shows a reduction of $>50\%$, and the measurement of the longest diameter of the tumor shows a reduction of $>30\%$, which means partial remission, between partial remission and ineffectiveness means stable; the measurement of the tumor area shows an enlargement of $>25\%$, the maximum diameter of the tumor was measured, and it was found that the enlargement $>20\%$ was

TABLE 1: Summary table of reliability test results.

Class	Index combination	Alpha coefficient (α)
Control group	Complete relief	0.8832
	Partial relief	
	Stable	
	Invalid	
Test group	Complete relief	0.7764
	Partial relief	
	Stable	
	Invalid	

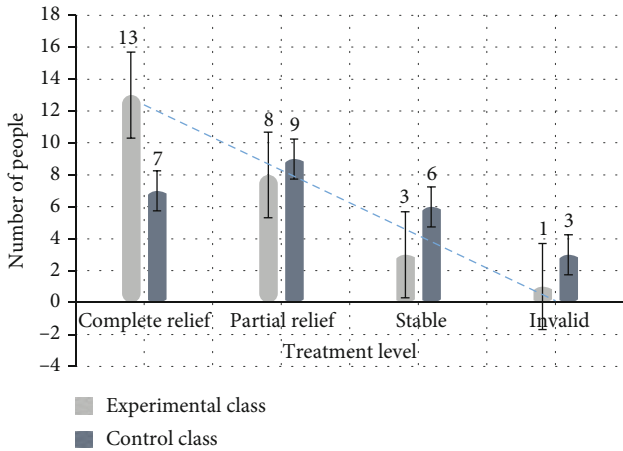


FIGURE 1: Comparison chart of curative effect during one year of treatment.

invalid. We analyze and compare the total effective rate, and the results are shown in Figure 1.

We can get from Figure 1 that during the 1-year follow-up observation, the disease recurrence rate in the control group was 36%; in the experimental group, it was 8%. In the comparison between the two groups, the experimental group is far less than the control group, the cure rate of the control group is 28%, the experimental group is 52%, and the experimental group is much greater than the control group, which can prove that the experimental group has much better efficacy than the control group.

4.3. Based on the Quality of Life and Complications of the Two Groups of Patients during Treatment

4.3.1. *The Quality of Life of the Two Groups of Patients.* We first compare and analyze the quality of life of the two groups of patients, choose to use one course of treatment before treatment, and process the data for analysis. When we conduct data collection and analysis, let the three participants in this experiment have rich work experience the doctors of the patients comprehensively score the overall quality of life to calculate the significant difference, and the results are shown in Figure 2.

It can be seen from Figure 2 that the overall quality of life of the two groups of patients before the first use of targeted drugs and at the end of the third course of treatment was not

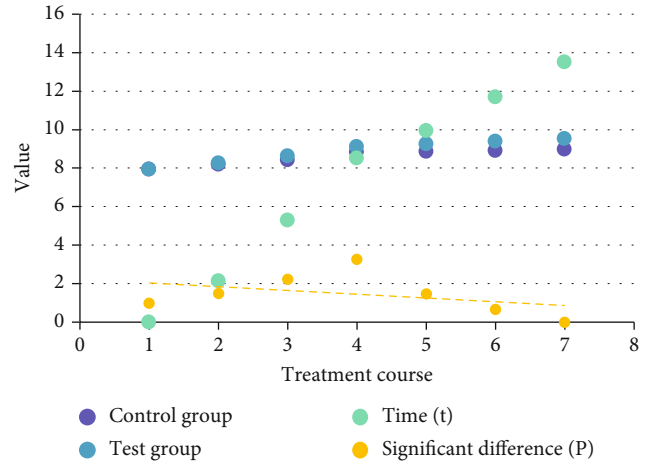


FIGURE 2: Comparison of the overall quality of life between the two groups of patients before and after intervention.

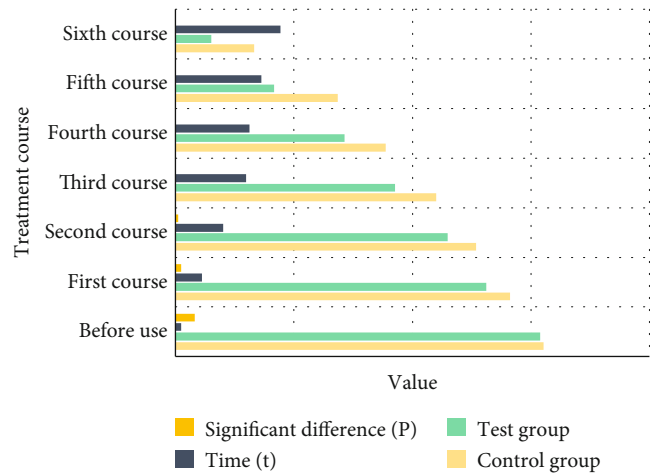


FIGURE 3: Comparison of anxiety between the two groups of patients before and after intervention.

different ($P > 0.05$), and until the end of the sixth course of treatment, the overall quality of life of the experimental group was higher than that of the control group ($P < 0.05$). That is to say, when the treatment is completed, the overall life treatment of the experimental group is higher than that of the control group. This conclusion is reliable, and there is no significant difference.

4.3.2. *Anxiety Degree between Two Groups of Patients.* We then compare and analyze the anxiety of the two groups of patients. We choose to use one course of treatment before treatment and process the data for analysis. When we collect and analyze the data, we let the 3 participants in this experiment have rich work experience the doctors of doctors calculated the significant difference by comprehensively scoring the patient's anxiety. The results are shown in Figure 3.

It can be seen from Figure 3 that there was no difference in anxiety between the two groups of patients before using targeted drugs for the first time ($P > 0.05$). Compared with the anxiety of the two groups at the end of the third course

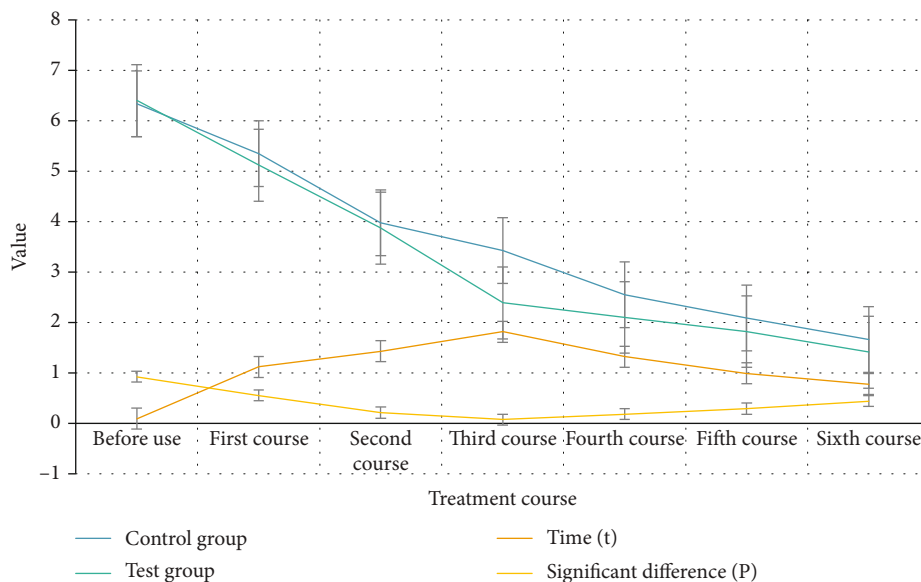


FIGURE 4: Comparison of depression between two groups of patients before and after intervention.

of treatment and the end of the sixth course of treatment, the experimental group scored low compared with the control group ($P > 0.05$); that is to say, the anxiety level of the experimental group is lower than that of the control group during half of the treatment. This conclusion is reliable, and there is no significant difference.

4.3.3. Depression Degree between Two Groups of Patients. We then compare and analyze the depression levels of the two groups of patients. We choose to use one course of treatment before the treatment and process the data for analysis. When we collect and analyze the data, we let the 3 participants in this experiment have rich work experience the doctors of the patients calculated the significant difference by comprehensively scoring the depression degree of the patients, and the results are shown in Figure 4.

Figure 4 shows that the degree of depression of the patients in the test group was significantly lower than that of the patients in the control group.

5. Conclusions

Through the process of continuous learning, continuous innovation, and continuous improvement, a little bit of theoretical maturity, I found that in the future, whether in work or learning, we must work hard, and only when we do it seriously will we find problems and solve them. The problem, for example, if you do not study in depth, I feel that the rehabilitation training based on the trajectory of standing up to the center of mass developed by this research group is already a breakthrough to a large extent. Only when you find it carefully can you know it, which largely limits intelligence. The combination of many nanomaterials with good biocompatibility and antibreast cancer drugs has been studied, and their possible toxicity and possible cellular mechanisms have been studied. At the same time, nanomaterials are easy to

activate, and nanomaterials with imaging or targeting functions can be manufactured.

The growth and reproduction of cancer cells will depend on certain nutrients. Therefore, the rich diet that patients receive will provide favorable conditions for cancer cells, and chemotherapy drugs will limit the growth and reproduction of cancer cells. Protein is an important part of human cells and human immunoglobulins and other antibodies and can be phagocytes. Therefore, increasing the diet is very important for improving immunity and inhibiting the growth of cancer. Therefore, scientific diet is an important basis for ensuring the effect of chemotherapy to achieve the desired effect. Therefore, in the course of treatment, patients should have more reasonable eating habits and effectively complete chemotherapy together with medical staff, which significantly reduces the quality of life and does not help the prognosis. Therefore, full attention should be paid to rehabilitation training. Although traditional rehabilitation training methods can achieve certain results, the content of rehabilitation is irrelevant, resulting in limited prognosis, and it is difficult for some patients to achieve the expected rehabilitation effect. The results of the study showed that the upper limb motor function, quality of life, and psychological status of the observation group were significantly better than those of the control group, indicating that aerobic rehabilitation training is effective in breast cancer patients.

This study did not analyze the actual cases and lacked certain authority. Therefore, it is suggested that the next research direction should be focused on case analysis.

Data Availability

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

Conflicts of Interest

The author declares that he/she has no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

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