



# Improvement of cold therapy care pouch intervention for breast cancer patients receiving European paclitaxel chemotherapy For hand and foot symptoms

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## Objectives

Hand-foot syndrome adverse reactions are common side effects of Docetaxel chemotherapy, causing erythema, blisters, pain, numbness, etc. on the hands and feet, making walking slower, difficulty lifting heavy objects, difficulty climbing stairs, and holding a knife when taking food. Difficulty in forking and holding a cup affects the quality of life, leading to the exploration of the effectiveness of the interventional form of cold therapy care sheaths on the severity and incidence of adverse reactions in breast cancer patients receiving Docetaxel chemotherapy for hand-foot syndrome.

## Methods

This study was experimental (IRB: 110237-E) and was conducted at the Taiwan Medical Center using convenience sampling. 22 people in each group were randomly assigned to the experimental group or the control group. The experimental group was involved in the innovative improved cold therapy care sleeve (Taiwan patent Search System -M588548), the control group used Elasto-Gel cold therapy care sheaths before chemotherapy, 3 weeks after treatment, and 15 weeks for follow-up.



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## Results

The experimental group was involved in the "Innovative and Improved Cold Therapy Care Glove", and the control group's Elasto-Gel Cold Therapy Care Glove showed no significant difference in the adverse reactions of hand-foot syndrome and quality of life after breast cancer patients received Docetaxel chemotherapy.

## Conclusion

Cold therapy sheath intervention reduces the incidence and severity of adverse reactions of hand-foot syndrome in breast cancer patients after receiving European Docetaxel chemotherapy, and improves the quality of life.