
natracure
COOLING
RELIEF
Designed To
Help Fight
Side Effects of
Chemotherapy
BURNING
TINGLING
NUMBNESS
HAIR LOSS
Professional cold therapy solutions designed with all new
GEL|ICE™

The Research



A recent study* indicates that wearing frozen gloves and socks for 90 minutes during Taxol chemotherapy can potentially alleviate burning and tingling symptoms in hands and feet. This form of treatment, known as cryotherapy, utilizes extreme cold. The research, published on October 12, 2017, in the *Journal of the National Cancer Institute*, explores the effects of cryotherapy on paclitaxel-induced neuropathy through a self-controlled trial.

The study involved 36 individuals diagnosed with breast cancer who received weekly Taxol infusions for 12 weeks. These participants wore frozen gloves and socks on their dominant hand and foot from 15 minutes before the infusion to 15 minutes after completion, totaling 90 minutes. The gloves were replaced after the initial 45 minutes. The researchers compared neuropathy symptoms in the limbs wearing frozen garments to those without.

Effects of Cryotherapy on Objective and Subjective Symptoms of Paclitaxel-Induced Neuropathy: Prospective Self-Controlled Trial, Akiko Hanai, Hiroshi Ishiguro, Takashi Sozu, Moe Tsuda, Ikuko Yano, Takayuki Nakagawa, Satoshi Imai, Yoko Hamabe, Masakazu Toi, Hidenori Arai, Tadao Tsuboyama, Journal of the National Cancer Institute, 2017.

To assess neuropathy symptoms, the researchers measured participants' sensitivity to touch, temperature, vibration, and dexterity before and after the 12-week chemotherapy regimen. None of the participants dropped out due to discomfort caused by wearing the frozen gloves and socks.

The findings revealed that the hands and feet wearing the frozen gloves and socks experienced less loss of sensitivity to touch and temperature compared to the limbs without frozen garments. These differences were statistically significant, suggesting that the cryotherapy treatment was responsible for the observed improvements.

For participants that wore frozen gloves, 27.8% of hands experienced a decrease in sensitivity to touch.

Of those that *did not* wear frozen gloves, 80.6% of hands experienced a decrease in sensitivity to touch.

Meanwhile, of the participants that wore frozen socks, 25% experienced a decrease in sensitivity to touch. And for those that did not wear frozen socks, 63.9% of feet experienced a decrease in sensitivity.

Additionally, the hands without frozen gloves also exhibited slower dexterity compared to the hands wearing the gloves. The researchers concluded that cryotherapy is a simple, safe, and effective strategy to prevent chemotherapy-induced peripheral neuropathy in patients undergoing paclitaxel treatment. It could potentially minimize dose delays, and reduce quality of life deterioration.

Self-controlled clinical trial summary source: *Research News: Cryotherapy May Help Prevent Neuropathy Caused by Taxol Chemotherapy*, October 13, 2017, https://www.breastcancer.org/research-news/cryotherapy-may-prevent-taxol-neuropathy



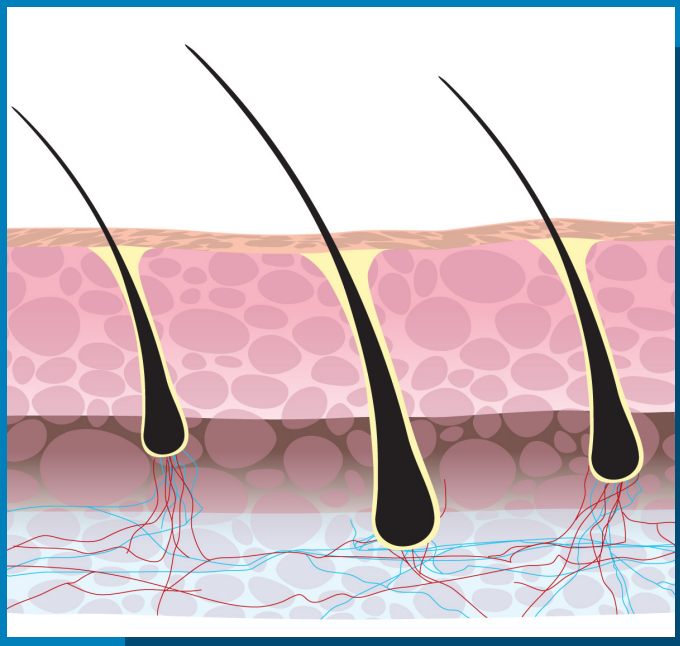
"Cryotherapy is an effective approach for prevention of peripheral neuropathy and dermatological adverse events in breast cancer patients treated with weekly paclitaxel."

Exerpt: Cryotherapy for the prevention of weekly paclitaxel-induced peripheral adverse events in breast cancer patients, Hideo Shigematsu, Taizo Hirata, Mai Nishina, Daisuke Yasui, Shinji Ozaki, October 2020.

Additional

"Women with breast cancer receiving A or T chemotherapy or receiving SC were significantly more likely to have less than 50% hair loss after Cold Therapy, superior hair regrowth and improvement in patient reported outcomes, with acceptable tolerance. It merits wider usage."

Exerpt: *Randomised controlled trial of scalp cooling for the prevention of chemotherapy induced alopecia*, J Bajpai, S Kagwade, A Chandrasekharan, S Dandekar, S Kanan, Y Kembhavi, J Ghosh, S D Banavali, S Gupta, December 2019.





"Scalp hypothermia with cold caps or scalp cooling systems has demonstrated efficacy as a monotherapy in preventing taxane-induced alopecia, and use of frozen gloves and socks has been associated with reduced nail and skin changes."

Exerpt: A Evaluation of Prevention Interventions for Taxane-Induced Dermatologic Adverse Events A Systematic Review, Dustin H. Marks, Azam Qureshi, Adam Friedman, *JAMA Dermatology*, December 2018.

Studies

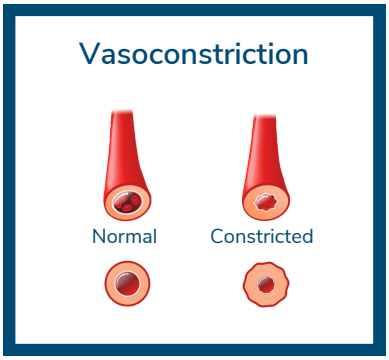
"The Siriraj Hospital, in-house-developed, frozen gloves can reduce Chemotherapy-Induced Peripheral Neuropathy effectively as part of cold therapy for paclitaxel-based chemotherapy. The benefits of using the gloves are apparent from the first chemotherapy cycle to the 1-month, post-treatment follow-up assessment."

Exerpt: Efficacy of Siriraj, in-house-developed, frozen gloves for cold therapy reduction of chemotherapy-induced peripheral neuropathy in gynecological cancer patients: randomized controlled trial, Phreerakan Chitkumarn, Tharinee Rahong, Vuthinun Achariyapota



How Cold Therapy Works





Cold Therapy devices may help reduce burning, tingling, nail loss and hair loss resulting from certain intravenous treatment protocols by administering cryotherapy.

This involves applying cold to the hands, feet, or scalp in the effort to cause local vasoconstriction, whereby blood vessels are constricted and theoretically less of the intravenous agent can reaches the fingers, toes, and hair follicles resulting in damage.

In this instance, cryotherapy does not cure or treat conditions. Instead, it is used to help limit exposure to intravenous agents that could cause problematic symptoms.

GEL|ICE™

GEL/ICE Technology

Our premium cooling gel includes individual gel ice cubes, surrounded by a body of fluid-like cooling gel, resulting in the longest-lasting cold we've ever created.

Stays Cold Up To 90 Minutes!*

Our Most Advanced Gel Ever

*NatraCure's internal study not only showed that *GEL/ICE* stays colder for longer than soft gel pack imitations, but the mitts, slippers, and cap were all measured at 50-degrees F after 90 minutes of testing; 48-degrees below the body's normal temperature!



Cooling Mitts







The Advanced Gel Cooling Mitts have concentrated more GEL/ICE around the fingers so that the cold lasts even longer in the places you need it most. There's a handy hook-and-loop closure at the wrist to customize your fit. And there's a soft inner lining that's soft against sensitive skin.

- New GEL/ICE Technology for longer cold treatments
- More cold gel concentrated around the fingers
- Adjustable hook-and-loop closures for custom fit
- Freezer or refrigerator compatible
- Soft inner lining is gentle against sensitive skin

Cooling Slippers







The Advanced Gel Cooling Slippers have concentrated more GEL/ICE over the toes so that the cold lasts even longer in the places you need it most. There are stretchable side seams so that the slippers fit a broader range of foot sizes. And they include a soft inner lining that's gentle against sensitive skin.

- New GEL/ICE Technology for longer cold treatments
- More cold gel concentrated around the toes
- Stretchable sides seams to help fit a wider range of foot sizes
- Freezer or refrigerator compatible
- Soft inner lining against your skin

Cooling Cap







The Advanced Gel Cooling Cap, with its rounded top and ponytail friendly design, include our GEL/ICE formula that stays flexible when frozen. The cap maintains direct contact with the scalp for maximum benefit..

- New GEL/ICE Technology for longer cold treatments
- Total scalp contact with a ponytail-friendly design
- Hook and Loop closure with adjustable straps
- Freezer or refrigerator compatible
- Soft inner lining against your scalp



Why Natracure?

After 20 years of providing the professional healthcare market with top-notch recovery solutions, we've now adapted the same medical technologies for consumer use.

Our team has one simple goal: helping you feel more comfortable - not only with smarter products, but by providing the greatest customer care possible and backing it with our famous 100% Satisfaction Guarantee.



We are proudly partnered with:

NATIONAL BREAST CANCER FOUNDATION, INC.®

Thank You

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info@natracure.com

www.natracure.com

800-884-8995