



PRODUCT TRIAL



Study Objectives

Assess the impact of exam gloves with colloidal oatmeal on nurses' hands, their morale and hand hygiene compliance.

Methodology

230 volunteers (registered nurses) trialed the glove for 10 days at their place of work. They were given a pre-trial survey and a post-trial survey covering general skin conditions, morale and hand hygiene practices.²

Results

Before using the glove with colloidal oatmeal, only 11% of participants were content with the condition of their hands at work. After the trial, 96% said they were satisfied with their hands at work.

Conclusions

Nurses (94% of respondents) overwhelming experience skin irritation on their hands with 79% saying the condition of their hands impacts their quality of life. By using gloves made with colloidal oatmeal, 96% of participants were content with the condition of their hands and 84% said it had a positive impact on their job satisfaction.

The effects of colloidal oatmeal-coated gloves on nurses' hands, morale and hand hygiene.

Background

The necessity to follow hand hygiene practices, including frequent washing and gelling, creates an endless wet-dry cycle that may lead to dry, irritated skin. In a recent study, 55% of nurses observed were diagnosed with irritant contact dermatitis.¹ Dry, cracked and irritated skin is not simply a vanity issue; it may impact morale and even job satisfaction.

According to one of the study's authors, Dr. Matthew Zirwas, Ohio Contact Dermatitis Center: "Hand eczema in healthcare workers is much more common than most physicians and hospital executives realize because it is rarely reported by hospital staff unless it reaches an extraordinarily severe level." He added: "Hand eczema has a major adverse impact on the quality of life of nurses who get it."

Restore® Nitrile Exam Gloves

Restore is a nitrile exam glove coated on the inside with maxOat+™, a proprietary blend of colloidal oatmeal that helps relieve conditions associated with dry, itchy skin.

Top reasons cited for problem hands:



- » Frequent hand washing
- » Cold weather



- » Use of gloves
- » Constant use of soaps and alcohol-based sanitizers

All data cited in this document refers to Medline's 10-day product trial. Data available upon request.

“ You need to try these ... they are super soft, comfortable, strong and your hands feel really great even after wearing them for a few minutes!”
-Danielle, Pennsylvania

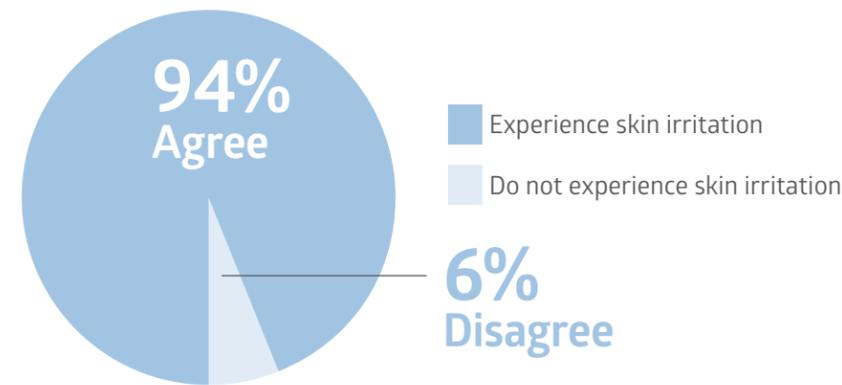
Study Design

To assess the impact of Restore exam gloves on nurses' hands, their morale and hand hygiene compliance, Medline partnered with *Scrubs Magazine* to recruit registered nurses to participate in a 10-day product trial. Participants were given a supply of Restore gloves and instructed to use them in place of their respective facilities' gloves. Nurses were asked to fill out pre- and post-trial surveys covering general skin conditions, morale and hand hygiene.

Participants

240 nurses (84% were RN's) participated in the pre- and post-trial survey: 93% female, 7% male. 88% were full-time workers and 12% were part-time. 43% worked in hospitals with 200-500 beds; 21% 500+ bed facilities; 19% 100-199 bed facilities and 17% with less than 100 beds.

I experience skin irritation on my hands (Pre-Test)



Dry skin's impact on morale and hand hygiene compliance



Results

Participants overwhelmingly expressed the positive impact Restore had on skin hydration (96% were content with the condition of their hands at work after wearing Restore versus 11% before). A similar positive reaction was seen on the impact of their job satisfaction (84% said Restore had a positive impact on job satisfaction after Restore).

Nearly half (48%) of nurses agreed that they washed or used hand sanitizer more often when wearing Restore because their hands felt less irritated.

Restore's impact on skin health

	Before wearing Restore	After wearing Restore
I experienced skin irritation on my hands (i.e., dry and/or chapped skin)	94%	10%
I am content with the condition of my hands at work	11%	96%
My hands feel soft at work	5%	92%

Restore's impact on morale and hand hygiene compliance

	Agree
Restore had a positive impact on my job satisfaction	84%
Restore made my work day easier	77%
I looked forward to going to work because I used Restore	56%
I washed or used sanitizer more often when wearing Restore because my hands felt less irritated	48%

“ I really saw an improvement in my hands. I didn't even have to apply lotion throughout the day as I washed them. My hands felt soft the whole shift.”
-Ivelisse, Georgia



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References:

1. Heather P. Lampel; Nisha Patel; Kathryn Boyse; Sarah H. O'Brien; Matthew J. Zirwas. Prevalence of Hand, Dermatitis in Inpatient Nurses at a United States Hospital. *Dermatitis*. 2007;18. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/17725920>. Accessed June 9, 2017.
2. Survey data on file.

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