LETTERS TO THE EDITOR

Hand Eczema Due to Hygiene and Antisepsis Products: Not Only an Irritative Etiology

Productos de higiene, antisepsia y eccema de manos: no solo etiología irritativa

To the Editor:

We read with interest the recent article by Batalla et al. on the use of hand hygiene and antisepsis products among health care professionals and the relationship between these products and hand eczema. While we are in full agreement with the central message of the article and the authors’ algorithm for the management of patients with intolerance to alcohol-based products, we would like to add the following points.

Since 2009, when the World Health Organization published its guidelines on hand hygiene for health care professionals, there has been a marked upswing in the distribution and use of alcohol-based products because of the numerous advantages they offer over traditional handwashing.

The hand rubs that have achieved the greatest commercial success (e.g., Sterillium and Manorapid r.f.u.) are those that contain isopropyl alcohol (Chemical Abstract Service number 67-63-0).

Before these products were developed, isopropyl alcohol was rarely used in medical or cosmetic preparations. Type IV hypersensitivity reactions were, therefore, rare leading some authors to even doubt whether isopropyl alcohol was in fact an allergen in humans.

However, the marked increase in the use of products containing isopropyl alcohol has led to a substantial increase in exposure. At the same time, it has been found that isopropyl alcohol is potentially an important allergen, especially when used directly on the skin although also in the case of occupational exposure.

In Europe, there are already numerous reports of health professionals who have been diagnosed with contact allergy to this substance, especially nurses and nursing assistants working in highly specialized units where frequent hand sanitizing is required (An Goossens, personal communication). In fact, in our own department we have diagnosed 2 young nurses with allergic contact dermatitis to isopropyl alcohol.

It is important to remember that, in addition to isopropyl alcohol, commercial alcohol-based hand rubs may contain other ingredients, such as emulsifiers, additives (lanolin, propylene glycol, bisabolol), and perfumes, and that the allergenic potential of these components may be even greater than that of the alcohol.

For all these reasons—and as Batalla et al. clearly indicate in their algorithm—the role of allergic contact dermatitis should not be overlooked when patients who habitually use alcohol-based sanitizers present with hand eczema. Consequently, patch testing is recommended in the case of persistent and clearly associated lesions. A practical alternative diagnostic technique available to any specialist is a repeated open application test with the actual product used by the patient.

Finally, we would like to thank the authors of this excellent review on a very current issue of great relevance to dermatologists, who must be aware of the issues involved and up to date on the methods for diagnosing and treating these patients.

References


Response to: «Hand Eczema Due to Hygiene and Antisepsis Products: Not Only an Irritant Etiology»

Réplica a: «Productos de higiene, antisepsia y eccema de manos: no solo etiología irritativa»

To the Editor:

We appreciate the comments made by García-Gavín et al. concerning the article "Products for Hand Hygiene and Antisepsis: Use by Health Professionals and Relationship With Hand Eczema." We agree entirely that when there is a temporal relationship in the case of lesions that are persistent or are exacerbated by the use of alcohol-based products, patch tests should be performed to rule out the possibility of an allergy to the alcohol component of the product used or the additives it contains. As García-Gavín et al. point out, the repeated open application test is a quick, practical, and economical alternative diagnostic method.

In conclusion, we believe that the possibility that certain patients may develop allergic contact dermatitis to alcohol-based products should not distract from the main message of our article: hygiene is mandatory in health care and the use of alcohol-based sanitizers causes less irritation than handwashing with soap and water. Moreover, irritation should not be considered a limiting factor in the use of such products.

References

5. Kampf G, Löfler H. Prevention of irritant contact dermatitis among health care workers by using evidence-based...