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CLINICAL SUMMARY

SUMMARY OF:

GLOVE ALLERGY DUE TO 1,3-DIPHENYLGUANIDINE

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BACKGROUND

Chemicals are used in the manufacture of rubber gloves and they can lead to the development of occupational and non-occupational hand dermatitis.

OVERVIEW

There was a recent marked increase in the number of OR worker referrals for occupational hand dermatitis at the Academic Medical Centre of the University of Amsterdam (The Netherlands).

RESULTS

Five OR workers were referred to the dermatology department between April and June 2005. 80% (4/5) demonstrated a positive reaction to 1.3-Diphenylguanidine (DPG) and this was the most frequent cause of allergic contact dermatitis related to rubber chemicals. This chemical is generally used in industrial rather than in rubber gloves which will explain lower sensitivity in previous studies. However, since 2001, in this hospital latex gloves were gradually replaced by non-latex gloves containing DPG, which may explain this increment.

CONCLUSION

1.3-Diphenylguanidine (DPG) was the most frequent cause of allergic contact dermatitis related to rubber chemicals reported in this article, but the samples size is small.

References 1. Piskin et al., Glove allergy due to 1,3-diphenylguanidine. *Contact Dermatitis, 2006:54:61-62*

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