



**COST Action TD1206 Early Stage Researchers' Forum on
"The challenge of occupational skin diseases: Basic translational and applied research"
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ABSTRACT

Title: Occupational hand eczema from UV-hardened nail lacquers in a manicurist
Authors: Razvigor Darlenski, Denitza Zheleva, Zdravka Demerdjieva and Nikolai Tsankov
Department of Dermatology and Venereology, Tokuda Hospital-Sofia, Bulgaria

We report a case of a 31-year-old Caucasian woman who developed erythema, scaling and fissuring of her fingertips. The condition started 6 months ago when new nail lacquering technique was introduced in her practice as a manicurist. The condition improved when she was on a vacation.

Upon admittance skin changes involved the pulps of all her fingers and they were presented with erythematous plaques, desquamation and fissures. Treatment with topical steroids and barrier creams was introduced. The patient improved in the next following 30 days.

Patch testing was performed with European baseline series, acrylates and semi-open application of lacquering materials brought by the patient. Readings at day 2 and day 3 yielded positive reactions to nickel, methylmethacrylate and 2 of her nail care products. The patient was advised on change of occupation.

UV-hardened nails are gaining more and more popularity as a cosmetic enhancement to the natural nail. Acrylate monomers are used in the production of a great variety of polymers, including nail cosmetics. Thus we expect an increase in the number of cases of contact allergic dermatitis among manicurists and customers.

Keywords: beautician, cosmetic, occupational, acrylate