

Short Communication

Textile dermatitis from Disperse Blue 85 in a knee brace

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In some cases, the diagnosis of contact dermatitis caused by textiles may be difficult because of its considerable clinical polymorphism (1, 2).

Case Report

A 29-year-old woman presented with a localized eruption on her right lower extremity, which had appeared 1 month after starting using a rubber brace for a knee injury. The internal surface of the knee brace was covered by a black synthetic textile material. On examination, erythematous patches were observed in a band-like pattern on her right thigh, shin and calf. In all these areas, the fabric of the knee brace was in contact with the skin.

Patch tests with a standard series, rubber additives series, plastics and glues series and a textile series were all negative, except for a + reaction on D2 and D3 to Disperse Blue 85. Replacement of the synthetic black material with white cotton fabric, and treatment with topical corticosteroids, led to disappearance of the skin eruption with no further recurrences.

Comment

Knee brace dermatitis has been reported mainly in relation to allergic contact dermatitis from diethylthiourea

(3), ethylenethiourea (4) and diphenylthiourea (5). Our case is the 1st describing allergic contact dermatitis from Disperse Blue 85 as the cause of knee brace dermatitis. Disperse Blue 85 is a monoazo dye, only partially soluble in water, which is used to color polyester, acetate and, sometimes, nylon fibers (6).

References

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