ABSTRACT BOOK ABSTRACTS



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CONTACT DERMATITIS AND OCCUPATIONAL DERMATOSES

EOSINOPHILIC PUSTULAR FOLLICULITIS LIKE SKIN MANIFESTATION AND RADIATION MARK LIKE POLLEN AS A CLUE OF AIR-BRONE CONTACT DERMATITIS DUE TO LIMONIUM BELLIDIFOLIUM (LB) IN TAIWAN

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Background: Air-borne contact dermatitis (ABCD) is an acute and chronic dermatosis caused by allergens/ irritants in atmosphere. It's hard to recognize the contactant of uncertain case, and the treatment may be even more difficult.

Objectives: To define the LB as an irritant of ABCD, manifested as an EPF like lesions follow by appropriate treatment.

Materials and Methods: One 60 year-old woman came for eruptive asymptomatic facial lesions for one week. The lesions showed many red papules with small pustules on the face. Complete physical examination, daily photography and allergen collection from the patient were arranged. Dermatoscopy, various kinds of skin cytological preparation, pus culture, blood tests, patch test, light and scanning electron microscopy (SEM) were arranged

Results: Eczema, acne rosacea and EPF were impressed initially. Fortunately, radiation mark like brown color conidia like structures were found in KOH preparation. After discussed with the patient, she had changed a 3-year-old dry flower of LB in recent one week. We rechecked the cytological slides and revealed the smaller smooth surface pollens, various colored fragments of LB, such as sepal, petal and scape can also be observed in various kinds of stains in cytology. The SEM showed the rough surface of various parts of LB. The patch tests were included European standard and whole flower of LB as fresh, dried and 95% alcohol extract all showed negative results. This finding is compatible with irritant contact dermatitis. After defined the irritant allergen LB, patient washed the face and





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applied erythromycin ointment as barrier, her condition improved within 3 weeks without medication.

Conclusions: In this study, we proved the first definitely diagnosed case of irritant ABCD caused by dry LB in the world. The radiation mark-like pollen under KOH preparation is the most important clue for LB detection.



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