

ATOPIC ECZEMA/DERMATITIS

THE EVALUATION AND VERIFICATION OF CHINESE CRITERIA OF ATOPIC DERMATITIS

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Background: Atopic dermatitis (AD) is a common inflammatory skin disease with increasing prevalence. Chinese Criteria for AD was raised in 2016 by our center. However, the relationship within the 5 components of Chinese Criteria is unclear, as well as the relationship between Chinese Criteria and other international criteria.

Objective: To analyse the 5 components of Chinese Criteria, and to verify the sensitivity and specificity of Chinese Criteria.

Materials and Methods: This study contained two descriptive hospital-based studies. The patients included the cross-sectional study led by our center in 2015-2016, in which 41 dermatology centers participated, and clinical patients collected consecutively in our center since 2016. Patients over 12 years old with chronic symmetrical eczema or AD were included. Questionnaires were completed by the patients and investigators. The valid questionnaires were analyzed using epidata3.1 software and R.

Results: A total of 3035 valid questionnaires were collected. 2077 patients met Chinese Criteria. Among those, 749 (36.0%) patients had a personal history of atopic diseases, and 68 (3.3%) patients had this criterion only for diagnosis. 830 (40.0%) patients had a family history, and 107 (5.1%) patients had this criterion only. 1171 (56.4%) patients had an elevated total serum IgE, and 203 (9.8%) patients had this criterion only. 675 (32.5%) patients had an elevated eosinophilis titer, and 93 (4.5%) patients had this criterion only. 913 (44.0%) patients had positive allergen-specific IgE, and 143 (6.9%) patients had this criterion only. In the patients who met the Chinese criteria, 51.7% met the Williams Criteria, Haniffin Criteria and JDA Criteria simultaneously, and 98.4% met any one of the other three diagnostic criteria in the same time.

Conclusions: Elevated total serum IgE and family history of atopy contribute the most to Chinese criteria. Chinese criteria has a better sensitivity and specificity, and is well applied in China.