

〈原 著〉

モルモット接触感作性試験の短期間試験法の検討(第1報)

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Studies of New Short Period Method for Delayed Contact Hypersensitivity Assay in the Guinea Pig. (I)

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Abstract

We developed a new method for delayed contact hypersensitivity assay of chemical compounds in the guinea pig, which had a couple of advantages, those were short period method (14 days) and high detection sensitivity. Benzyl alcohol was applied for a development of a new assay procedure. The new method was following; One set of Freund's complete adjuvant (FCA, not diluted) intradermal injection and 24hr occlusive patch test was performed 2 times at an interval of 4 days and challenged by non-occlusive topical application at 11 days after the first immunization. It was histologically observed that acanthosis and spongiosis in epidermis and mononuclear cell infiltration into dermis at skin reaction sites. And this new method (Adjuvant and 24hr occlusive Patch 2 times test: AP2 test) could equally and/or strongly detect allergenicities of the other 6 chemical compounds (bromostyrol, citronellal, benzyl salicylate, p-aminobenzoic acid ethyl ester, p-phenylenediamine and formaldehyde) as compared with the Cumulative Contact Enhancement Test (CCET) and the Guinea Pig Maximization Test (GPMT) method.

Key words: Delayed contact hypersensitivity, Guinea pig, Short period, Adjuvant, 24hr occlusive patch test