

〔Prostaglandins Leukotrienes Med., 30, 111 (1987)〕

**Effect of OKY-046, a New Thromboxane A<sub>2</sub> Synthetase Inhibitor, on Experimental Asthma in Guinea Pigs.**

HIROICHI NAGAI, IKUHISA YAKUO, MICHINORI TOGAWA, AKINORI ARIMURA,  
NAOSUKE MATSUURA, AKIHIDE KODA,\* SHUICHIRO HAMANO, ARAO UJIE,  
MASAYUKI NAKAZAWA

The effect of OKY-046, a newly synthesized thromboxane A<sub>2</sub> (TxA<sub>2</sub>) synthetase inhibitor, on IgE antibody-mediated experimental asthma in guinea pigs was investigated. OKY-046 clearly improved asthmatic respiratory disorders and inhibited the *in vitro* antigen-induced contraction of sensitized lung parenchyma. OKY-046 also inhibited the contractions of lung parenchyma caused by LTC<sub>4</sub>, LTD<sub>4</sub> and LTE<sub>4</sub> but not by histamine. OKY-046 inhibited an elevation of concentration of TxB<sub>2</sub> in lung perfusate after infusion of LTC<sub>4</sub>. OKY-046 had no effect on the antigen-induced release of histamine but it inhibited the release of SRS-A from lung tissues.

〔Int. J. Immunopharmac., 9, 243 (1987)〕

**Inhibition of Delayed Hypersensitivity Reactions by a New Agent,  
Cis-1-Methyl-4-Isohexylcyclohexane Carboxylic Acid (IG-10). II.  
The Mechanism Regarding the Action on Lymphokines.**

ICHIRO NAKATOMI, KUNIHIRO NAKAMURA, KAZUTO FURUKAWA,  
AKIHIDE KODA\*

The mechanism of inhibitory effect of IG-10 on delayed hypersensitivity reactions was studied in guinea pigs. IG-10 inhibited skin reactive factor-induced erythema dose-dependently. O<sub>2</sub><sup>-</sup> generation from macrophages was not inhibited by IG-10. IG-10 significantly inhibited the activity of macrophage inhibitory factor. IG-10 inhibited macrophage chemotaxis induced by macrophage chemotactic factor and N-formyl-methionyl-leucyl-phenylalanine but not by *E. coli* culture filtrate. The inhibitory action of IG-10 was relatively dependent on exogenous Ca<sup>2+</sup> and Mg<sup>2+</sup>, and was antagonized by dbc-GMP.

〔Int. J. Immunopharmac., 9, 289 (1987)〕

**Immunopharmacological Studies on Wen-Qing-Yin, a Chinese Blended  
Medicine : Effects on Type IV Allergic Reactions and Humoral Antibody  
Production.**

AKIHIDE KODA\*, YUTAKA ONO, TAKESHI NISHIYORI, HIROICHI NAGAI,  
NAOSUKE MATSUURA, AKIHITO MASE, TOSHIFUMI MATSUYAMA

The effect of Wen-Qing-Yin on type IV allergic reactions and humoral antibody production were investigated. Although Wen-Qing-Yin did not affect the effector phases of type IV allergic reactions in mice, it inhibited the induction phases significantly. Wen-Qing-Yin significantly inhibited local graft vs host reaction in mice. Humoral antibody production was inhibited or tend to be inhibited by Wen-Qing-Yin. These results suggest that the therapeutic effect of Wen-Qing-Yin on Behçet's syndrome may be related an inhibitory action on the early phase of the cellular immune response.