

SHORT COMMUNICATION

OPPOSITE EFFECTS OF MAST CELL DEGRANULATION BY COMPOUND 48/80 ON PERITONEAL INFLAMMATION IN SWISS AND CBA MICE

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Opposite effects of mast cell degranulation by compound 48/80 on peritoneal inflammation in Swiss and CBA mice. E. STANKIEWICZ, E. WYPASEK, B. PLYTYCZ. Pol. J. Pharmacol., 2001, 53, 149–155.

The murine strains differ in the number of peritoneal mast cells. Degranulation of peritoneal mast cells by single injection of compound 48/80 (1.2 mg/kg) followed by zymosan-induced (2 mg/ml, 0.5 ml/mouse) peritoneal inflammation caused either inhibition or enhancement of an early influx (at 4 h of peritonitis) of exudatory leukocytes in Swiss and CBA mice, respectively. These opposite effects correspond with statistically significant differences in the number of peritoneal mast cells in the intact Swiss (11×10^3) and CBA (39×10^3) mice.

Key words: *peritoneal mast cells, compound 48/80, inflammation, histamine, degranulation, peritoneal leukocytes*

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