SHORT COMMUNICATION

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

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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 ($11 \times 10^3$) and CBA ($39 \times 10^3$) mice.

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