## Study of mechanism on the diuretic action in only administered kidney produced by serotonin (5-HT) administered into a renal artery in dog

Suk-Tai Ko, Han-Kwang Na °

Dept. of Pharmacology, College of Pharmacy, Chosun University. 
<sup>o</sup> Dept. of Pharmacology, National Institute of Toxicological Research

The study was investigated on the influence of methysergide, a  $5\text{-HT}_1$  receptor antagonist, and ketanserin, a  $5\text{-HT}_2$  receptor antagonist, in order to clarify the mechanism of diuretic action in only administered kidney produced by serotonin (5-HT) infused into a renal artery in dog. The diuretic action of 5-HT was not affected by methysergide given into a renal artery, wherease inhibited by ketanserin given into a renal artery. Above results suggest that diuretic action in only administered kidney produced by serotonin (5-HT) given into a renal artery is mediated through  $5\text{-HT}_2$  receptor localized in kidney.