

TOXIC EVALUATION OF D-GALACTOSAMINE, 6-AZAURODINE  
AND 5-FLUOROURIDINE COMBINATION IN RATS

BY



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ABSTRACT

The toxicity of sequential combination of D-galactosamine, 6-azauridine and 5-fluorouridine was studied in rat. The using doses of each antiprimidine were equivalent to the schedule has been used in the chemotherapy of human hepatocellular carcinoma. The rats were continuously treated for 12 weeks. Growth effect, clinical chemistry, hematological, and histopathological parameters were investigated.

The drugs combination did not influence the food consumption and food efficiency of rats. Body weight of male rat was slightly decreased whereas no significant decrease in body weight of female rat was observed. Brain, lungs, heart, liver, spleen, stomach, small intestine,

pancrease, kidneys, adrenal gland, testis and ovary appeared normal with respect to weight and/or histological study. The thymus gland in male rat showed atrophy. The clinical blood chemistry and histopathological studies indicated that drugs at the doses employed in this study have no harmful effect on the liver. The drugs combination exerted no effect on the kidney base on clinical urinalyses and histopathological study. Histological observation indicated that no induction of any derangement in small intestine. The amount of hematopoietic tissue in bone marrow smear from rat receiving drugs combination for 7-8 weeks was slightly decreased. This derangement did not induce the proportion between cells in myeloid and erythroid series. The recovery from the depression was found in the control range after 9 weeks on the treatment. The lesion could be observed for only a short interval in the bone marrow proportion whereas the derangements in peripheral blood elements were not found.