

**THE EFFECTS OF SOYBEAN (*GLYCINE MAX. MERR.*)
CONDIMENT OF FOOD INTAKE AND SOME
PHYSIOLOGICAL PARAMETERS**

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ABSTRACT

The effect of soybean (*Glycine max. merr.*) condiment (SC) in diets was investigated in male albino rats (Wistar strain) using locust bean (*Parkia biglobosa*) condiments (LC) in diets as reference alongside a control diet without any condiment. The rats were fed for 28 days with control diet and diets containing measured amount of condiment by weight of a locally manufactured bouillon cube. Food intake and weight gain were observed to be significantly increased ($P < 0.05$) in rats fed the condimented diets but more significantly, by the SC diets. There was a significant ($P < 0.05$) dose-dependent increase in the weight of pancreas for both condiments. A notable increase in spleen weight (splenomegaly) was observed in the rats fed condimented diets ($P < 0.05$). Blood pressure was reduced by the condiments but the reduction was to a greater extent by LC. Plasma Na^+ concentration was not significantly affected by the condiments ($P > 0.05$). A dose-dependent increase in gastric acid secretion was observed in the rats fed the SC diets.

Keywords: Soybean condiment; locust bean condiment; blood pressure; gastric acid secretion.