

ABSTRACT

Afi Errika Tauning Paramita. 24020119120011. Histological Structure of White Rat Liver (*Rattus norvegicus* B.) after administration of Turmeric Gummy Candy. Under the guidance of Silvana Tana and Sri Isdadiyanto.

Turmeric containing curcumin compounds acts as an antioxidant that can ward off free radicals. The developing technology in the modification of processed food products such as gummy candy with the addition of herbal ingredients, namely turmeric, is able to attract public interest in choosing healthy and hygienic foods. Modification of processed food products must be beneficial for the health of body organs, one of which is the liver. The purpose of this studied was to analyze the histological structure of the liver of white rats (*Rattus norvegicus* B.) after being given turmeric gummy candy. This studied used 24 female white rats of the wistar strain and were divided into 3 treatment groups, namely G0 (giving commercial feed), G1 (giving turmeric gummy candy once a day as much as 2g), and G2 (giving turmeric gummy candy twice a day as much as 2 g). This studied was conducted for 27 days. The results of this studied were analyzed using the Anova and Duncan tests. The results of the analysis showed that the administration of turmeric gummy candy had a significant effect on hepatocyte diameter, liver lobule diameter, liver weight and final weight of rats, but had no significant effect on the weight ratio of white rats. The conclusion of this studied was that giving turmeric gummy candy treatment had the potencial to maintaining in the histological structure of the liver of white rats (*Rattus norvegicus* B.).

Keywords: *hepatocyte diameter, liver lobule diameter, liver weight, and final weight of rats*