

## ABSTRACT

Della Annisa Fitri. 24020119120035. **The Effect of Turmeric Gummy Candy Administration on Ventriculus Histological Structure and Histomorphometry of White Rats (*Rattus norvegicus*)**. Under the guidance of Silvana Tana and Kasiyati.

Turmeric is a spice known have many benefits. Curcumin compounds have cytoprotective and gastroprotective activities that are beneficial for the health of gastrointestinal system. The use of turmeric in the form of *turmeric gummy candy* can increase the practical value to consume turmeric. The purpose of this research was to analyze the effect of *turmeric gummy candy* consumption on the histological structure and histomorphometry study of white rats (*Rattus norvegicus*). This research used a Completely Randomized Design (CRD) design with 20 female white rats (*Rattus norvegicus*) divided into three groups, G0 (control), G1 (TGC 2 g/day), and G2 (TGC 4 g/day). The parameters observed in this research were the histological structure, thickness of the tunica mucosa, thickness of the tunica submucosa, thickness of the tunica muscularis externa, and thickness of the tunica serosa ventricle of white rats. The research data were analyzed using the ANOVA at a significance level of 5% ( $\alpha=0.05$ ). The results showed no significant differences ( $P>0.05$ ) in the thickness of tunica mucosa, tunica submucosa, tunica muscularis externa, and tunica serosa. The conclusion of this study was that the administration of turmeric gummy candy had not adverse effect on the histomorphometry and histological structure of the ventricle of white rats (*Rattus norvegicus*).

**Key words:** *histology, histomorfometric study, ventriculus, Rattus norvegicus, turmeric*