THE INFLUENCES OF SNAKE-HEAD FISH (Channa striata) EXTRACT ON HEART HISTOLOGY OF HYPERGLYCEMIC WHITE-MICE (Mus musculus)

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Abstract.

Hyperglycemic conditions can cause tissue damage in the heart. Albumin can regenerate tissue of liver. Snake-head fish (Channa striata) extract contain of albumines so that researched about potential of snake-head fish extract to regenerate tissue of liver of white-mice (Mus musculus) hyperglycemic. Hyperglycemic of white-mice induced by alloxan single dose of 190 mg/kg body weight intraperitoneally. Therapy use snake-head fish extract conducted for 14 days with varying doses. Measurement of blood glucose level using glucometer of Roche Accu-Check®. Preparation of white-mice liver histology with paraffin slices method staining with haematoxylin-eosin, observations were made with a microscope photography of Olympus® BX-41. The results showed that the fish extract cork therapy can regenerate liver tissue are best at doses 0.14846 ml / day, with the percentage improvement of hyperglycemic condition by 80.56%.

Keywords : Channa striata, diabetic, blood glucose, liver