AN EFFECT OF BOVINE LACTOFERRIN AT SMALL INTESTINE OF FEMALE CAT HISTOLOGY FORM AFTER 90 PERCENT EXTENSIVE ENTERECTOMY

Mohammad Awaludin Yusuf

ABSTRACT

The aim of this study was to find out the effect of bovine lactoferrin as growth factor on Short Bowel Syndrome (SBS) after extensive resection at midjejunoileal of the small intestine. This study using female cat, 12 months old and 2,5 kg body weight. During 2 week animal model is being adaptation hence enterectomy equal to 90 % is done. Then, animal model to be divided become four treatment and each treatment that consist of 3 cat (n=3). Treatment I (control) without giving of lactoferrin, treatment II received of lactoferrin 1 mg / kg of body weight peroral, treatment III received of lactoferrin 5 mg / kg of body weight peroral, and treatment IV received of lactoferrin equal to 10mg / kg of weight peroral. Sample is taken by cutting part of proximal intestine anostomosis on 30 day after giving treatment, then made histology form and analysed later. Statistical Analysis was carried out by One Way Analysis of Varians (ANOVA), continued with Duncan Multiple Range Test (DMRT). The final results of these experiment define that the highest to improve high of vili at treatment III and IV, while at width of villi do not show difference among treatment, and for the highest to improve deep of crypth there are at treatment II, treatment III and treatment IV.

Key words : bovine lactoferrin, short bowel syndrome, midjejunoileal, anostomosis.