PRE CLINICAL TOXICITY TEST OF FORMULA ROTAVIRUS VACCINE ON THE HISTOPATHOLOGICAL FEATURE OF MALE RABBIT SMALL INTESTINE

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ABSTRACT

This research aimed to prove the influence of administered orally rotavirus vaccine formula from P.T Biofarma on histopathological changes of small intestine in male rabbits (*Oryctolagus cuniculus*). Six male rabbits were divided randomly into two groups and administered orally based on the treatment. The treatment consists of administered sucrose 1 ml orally (P0) and the administered of rotavirus vaccine formula P.T Biofarma 1 ml orally (P1). Rabbits adapted in BSL-3 for 7 days with adlibitum food and water before treatment. 1 ml sucrose and 1 ml rotavirus vaccine formula from P.T Biofarma was administered orally on day-0, day-11 and day-22. Then, on day 56 all rabbits euthanized for small intestine sample collection. The histopathological feature of small intestine were examined by using Modified Ciarlet *et al.*, (1998) scoring methode. This research was analyzed using Mann-Whitney Test, then Mann-Whitney Test of statistical analyses showed that rotavirus vaccine formula has no effect on histopathological features of male rabbit’s small intestine organ (p > 0.05).

**Keywords**: male rabbits (*Oryctolagus cuniculus*), rotavirus vaccine formula, BSL-3, Mann-Whitney U Test, small intestine