

Green Tea Reduces Hemoglobin Levels in Mus Musculus Balb Albino

Nur Wahyuni Munir^{1,a,*}, Nurul Annisa Djafaar^{2,a}, Akbar Asfar^{3,a}, Syahrul^{4,a}

^aUniversitas Muslim Indonesia

nurwahyuni.munir@umi.ac.id

Abstract. Anemia is a health problem that can be caused by various factors, one of which is the habit of drinking tea. This happens because the tannin content in tea can inhibit the absorption of iron in digestion. This study aims to determine the effect of giving green tea on hemoglobin levels in musculus balb albino. This type of research is an experimental with a post test only control group design. The sample in this study were 10 male mice divided into two groups, namely five each in the green tea and control groups. Blood was taken from the tail of mice, hemoglobin examination using the easy touch hemoglobin testing system. This research was conducted in the pharmacology laboratory of the Faculty of Pharmacy, Universitas Muslim Indonesia. Statistical test data used were one way ANOVA and LSD test with a significant level of p is less than 0.05. The results showed that the average green tea hemoglobin level was lower than the control group. In addition, there was an effect of giving green tea on hemoglobin levels in Balb albino muscles with a p-value is less than 0.001. The results of the LSD Post Hoc test analysis also showed that the green tea group had a significant difference from the control group. The conclusion of this study is that there is an effect of giving green tea on hemoglobin levels in Balb albino muscles and there are differences in the effect of green tea and the control group on hemoglobin levels in Balb albino muscles.

Keywords: anemia, hemoglobin levels, musculus balb albino, green tea