**Edta Blood Storage Postponement of The Difference in Size of Erythrocytes in Blood Smear**

Rizal Mahfudz(1), Muhamad Muslim(2), Muhammad Arsyad(1)

Health Anayst Academy of Borneo Lestari Banjarbaru

Kelapa Sawit Street 8 Bumi Berkat Number 1

Phone. (0511) 7672224 Banjarbaru, South Borneo 70714

Email : rizalmahfudz94@gmail.com

# *ABSTRACT*

Erythrocytes is one of the blood cells that carry out gas exchange that carries oxygen from the lungs leading to body tissues, examination taking anticoagulants EDTA will be done because the erythrocytes may warp if too long delayed. The aim of the study to determine the effect of EDTA blood postponement against the red cells in the blood smear. Pre-experimental type of study design with one group pretest-posttest design. Students blood specimen using half of VI (six) Health Analyst Borneo Lestari Banjarbaru taken by purposive sampling. Data were analyzed using Kruskal Wallis test showed significant 0,000 <0.05, which means that Ho is rejected. With the rejection of Ho examination erythrocyte size with a delay of 0 hour, 1.5 hours, 3 hours and 4.5 hours was no significant difference, with an average size of erythrocytes 0 hour is 7.1073 μm, the average size of erythrocytes 1, 5 hours is 6.9526 μm, the average size of erythrocytes 3 hours is 6.7678 μm and an average size of erythrocytes 4.5 hours is 6.7098 lm. There was a decrease of its hourly delay is 0 hours - 1.5 hours down about 2%, from 0 hours - 3 hours fell by around 5% and from 0 hours - 4.5 hours decreased 6%. The next suggestion needs to be done further research to examine differences in the provision of EDTA to measure the volume of erythrocytes in the blood smear.

***Keyword*** : *Erythrocyte size, Time Delay, blood smear*

(1) Health Anayst Academy of Borneo Lestari Banjarbaru

(2) Health Analyst Departement of Health Ministry Banjarmasin