

ABSTRACT

Franciska Gledy Ambarita, NIM : 1534040, 2019. Difference in Blood Uric Acid Levels at 8 Hours and 10 Hours Fasting Time. Script. Health Analyst DIV Study Program, Faculty of Health Sciences Musi Charitas Catholic University Palembang.

Background : Uric acid was the final product of purine metabolism. Purines (adenine and guanine) were nucleic acid constituents. There were 3 stages of the laboratories quality control process those are pre-analytic, analytical and post-analytic. Patient preparation (fasting) was a pre-analytic factor that can influence the results of the examination. Patient preparation (fasting) was the right thing to do to get accurate examination results, diagnosis and appropriate treatment, and avoid examination. The purpose of this research to determine the difference in blood uric acid levels in the duration of fasting 8 hours and 10 hours.

Method : This research was pre-experimental. Samples taken by *total sampling*, the criteria for inclusion were 33 samples from DIV level 2 and 3 Health Analyst students at the Faculty of Health Sciences, Musi Charitas Catholic University, Palembang. Blood sampling was carried out after the respondent fasted 8 hours and blood was collected after the respondent was required to fast for 2 hours for fasting 10 hours of blood collection, examination of uric acid was performed using the enzymatic uricase method. Hypothesis testing was conducted by *wilcoxon signed rank test*.

Results : The meaning of blood uric acid level at 8 hours fasting time was 4,3527 mg/dL and the meaning of blood uric acid level at 10 hours fasting time was 4,3276 mg/dL. The results *wilcoxon signed rank test* showed no significant difference in blood uric acid levels in the fasting period of 8 hours and 10 hours with the values $p = 0,372$ ($p > 0,025$).

Conclusion : Based on this research, we can be concluded that blood uric acid levels with fasting of 8 hours and 10 hours are not different.

Keywords : Blood uric acid level, 8-hour fasting, 10-hour fasting