## ANALYTICAL ERROR ANALYSIS OF KIDNEY FUNCTION EXAMINATION BASED ON INTERNAL QUALITY CONTROL DATA IN 2020 IN PRAMITA CLINIC LABORATORY BANDUNG CITY

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## ABSTRACT

Indonesian National Standard ISO 15189 concerning Medical Laboratories, competency quality requirements, each laboratory must use a validated method, validated examination procedures used without modification must be independently verified by the laboratory/before they are used for routine examinations, so their performance needs to be tested first in order to obtain good quality assurance of inspection results. During the inspection process in the laboratory, several types of errors may occur so that it can interfere with the quality of the results of laboratory examinations. At the analytical stage, several errors can occur, including random errors which cause the results of the examination to be less good and also systematic errors which also cause the accuracy of the examination to be less good. This study aims to see an overview of analytical errors in kidney function examinations based on Internal Quality Control data in 2020 at the Pramita Clinical Laboratory, Bandung City. This type of research is observational and uses a quantitative approach with a cross sectional design. The research was conducted by processing PMI data at the Pramita Clinical Laboratory and analyzing analytical errors, random errors, systematic errors and also total errors that occur every month for one year. The results obtained are the most common analytical errors, namely systematic errors with violations of the Westgard rules on the 4-1s, 7x and 10x rules. For the performance of the control ingredient Creatinine without Establish Mean level 1 in January and April is unacceptable because it exceeds Tea, and for Performance of the control ingredient Total Protein level 1 in June is unacceptable because it exceeds Tea both on Establish Mean and without Establish Mean.

Keyword: Establish Mean, QC, Analytical Error, westgard