ABSTRACT

ANALYSIS OF BLOOD TYPE EXAMINATION WITH ABSORPTION-ELUTION METHOD FOR DECOMPOSITION CORPSE HAIR IN THE MEDICAL FORENSIC INSTALLATION OF Dr. SOETOMO HOSPITAL FROM JUNE-DECEMBER IN 2016

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Objective: Hair is an important tissue for human identification because it provides morphological information as well as biomolecular information for individuals comparison. The advantage of using hair as an identification tool compared to other tissues is that the sample size and sampling process are relatively non invasive and non-destructive, and the hair fiber keep the information that related to blood type, genetic, drug use, pathology, diet, history of location, residual exposure and other pollutants.

Method: In the newly corpse hair can use direct agglutination method for blood type examination and for long duration of corpse hair can use absorption elution method. Absorption elution method is widely used in forensic laboratories because of the high level of reliability than agglutination.

Results: Of the 14 samples examined in the two different laboratories, the results of ABO blood type examination showed no difference in agglutination level and did not change the blood type. In Chi-square statistical test results, asymp value. Sig pearson chi square is 0.015 which means smaller than 0.05 so it can be concluded that H0 is rejected and H1 is accepted or there is a significant correlation between blood type and agglutination level.

Conclusion: The results of this study showed there is no difference between the two laboratories. Both equall showed that blood type has correlation with the level of agglutination obtained, so the analysis result of this research stated that decomposition process effect for Mr.X corpse hair examination still can detected the blood type by using ABO blood type examination system with absorption elution method by discern the level of agglutination.

Keywords: blood type, absorption elution method, decomposition of corpse hair.