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EVALUATION OF ANTIBODY ELUTION TECHNIQUES USING ENZYME - LINKED
ANTIGLOBULIN TEST (ELAT)

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ABSTRACT

41 alloantibody containing sera of various specificities were used for evaluation of various antibody elution techniques, i.e., heat elution (HE), Liu easy freeze elution (LEF), dichloromethane elution (DCM 56°C), digitonin glycine acid elution (DGA) and Rubin ether elution with 37°C incubation (RE 37°C). These evaluations were performed by using sensitive and quantitative enzyme - linked antiglobulin test (ELAT). The specificities of antibodies included antibodies in Rh - system (anti - D, - E, - C, -c), antibodies in ABO - system , anti - Mi^a, anti - Kidd and anti - S. The results were indicated that RE 37°C was the most effective technique for elution of antibodies in Rh - system and Kidd antibodies, while LEF was the least effective technique. DGA was found to be the most effective for anti - S and anti - Mi^a elution, while RE 37°C yielded the lowest % recovery. For antibodies in ABO - system , it was found that LEF was the most efficient method. Although heat elution was the least effective method. The efficiencies of DGA, DCM 56°C and RE 37°C for elution of antibodies in ABO - system were non - significantly different.