

## 62. EVALUATION OF METHODS FOR INTERLABORATORY COMPARISON TESTS ON MEASUREMENTS OF CHOLINESTERASE ACTIVITY

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Measurements of total cholinesterase activity are widely used for assessing the severity of organophosphorus intoxication. Currently different methods are in use resulting in values that directly can not be compared with each other. In the future it would be of great help if different laboratories would use one and the same method and express the results in the same units. In the present study, we have determined acetyl- and butyrylcholinesterase activities (AChE and BChE, respectively) in samples drawn from capillary (finger) and in venous blood. In order to standardize enzyme activity they were related to the hemoglobin content of the blood samples determined without or with conversion of hemoglobin to hemoglobin cyanide by the method of Zijlstra. In addition we compared the effect of two detergents, Triton X-100 and Pluronic F 68, on AChE and BChE activities as determined in samples drawn from finger blood.

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