

# ABSTRACT

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Performed at: University of defence in Brno, Faculty of Military Health Sciences in Hradec Králové, Department of Toxicology

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Title of the thesis: **A comparison of the reactivating efficacy of newly developed oximes (K250, K251) with commonly used oximes against tabun in rats**

The main aim of this experiment was to compare the reactivating efficacy of newly developed bispyridinium oximes (K250, K251) with commonly used oximes against tabun in rats.

The reactivating activity was determined by the standard spectrophotometric Ellman's method using male Wistar laboratory rats. Our results were assessed percentage of reactivating of tabun-inhibited AChE or BuChE in blood, plasma, brain and diaphragm. As expected HI-6 was ineffective in tabun poisoning. Both of new oximes K250 and K251 are less efficient than the currently available (obidoxime, trimedoxime) and so they cannot be recommended for the treatment.