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**TITLE: High Dose Pralidoxime [PRX] Treatment Prolongs Time to Extubation [TTE] and Increases Mortality in Paraoxon [POX] Exposed Minipigs**

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### **32. HIGH DOSE PRALIDOXIME (PRX) TREATMENT PROLONGS TIME TO EXTUBATION (TTE) AND INCREASES MORTALITY IN PARAOXON (POX) EXPOSED MINIPIGS**

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#### **ABSTRACT**

Organophosphates are inhibitors of serine hydrolases. Oximes are clinically available enzyme reactivators.

To determine in vivo the effect of high dose PRX use on "time-to-extubation (TTE)" and mortality as compared to identical therapy without PRX.

12 anaesthetized minipigs were used. All pigs received iv-POX (1mg/kg BW) over 50 minutes. Group one (n = 6) received conventional intensive care therapy as described previously [J Appl Toxicol 18: 293 - 298]. Group two (n = 6) received in addition iv-PRX 10 g ( $\approx$  300 mg/ kg BW). Before [base-line;BL], after POX application (50min) and then at 1,2,3,4,8 and 16 hours after POX AChE and BChE activities were measured. Statistics: rank order test; significance for  $p \leq 0.05$ .

In group one TTE was  $7.2 \pm 4.4$  h after last measurement. Mortality was 0. In group two TTE was  $14.7 \pm 6.4$  h after last measurement. Mortality was 4/6.

Pralidoxime therapy has no beneficial effect and its use can not be recommended.

#### **KEYWORDS**

Pralidoxime, reactivators, OP poisoning

(The paper was not presented)