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## **Hematological & pathologic changes after administration high doses of garlic tablets to cats**

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**Objectives.** To determine the clinical signs ,hematological & pathologic changes immediately after administration of high doses of garlic tablets in cats. **Material & Methods.** 6 adult mix breded cat were selected . Animals were fed with the same diet for 2 days . During this period, the hematological parameters were determined . They were given 8 Garlic tablets (Garcin R , 300 mg , Goldaru Co.) once per 12 hours for 3 times. Complete blood count were performed by manual method. Animals were scarified after the last dose & Tissue specimen were obtained 3 days after drug administration . **Results .** Ataxia , stagger posture , screaming , diarehha & colic were seen few hours after first drug administration . Hct, Hb , RBC Count increased slightly after drug administration . Blood morphology & WBC Counts were normal . There were no evidence of oxidative stress as like as Heinz body or eccentrocyte . The stomach were hemorrhagic & intesnines were hyperemic . Urinary bladder were distended. Kidneys were pale & had infracted pattern . Histopathologically Acute tubular necrosis were confirmed . The most prominent histopatologically changes in liver related to centrilobular degenerations & cellular swelling . Intenstine and stomach tissues were normal . **Conclusion .**It seemed that acute garlic toxicosis ( 240 mg per 12 hours ) lead to kidney dysfunctions & hepatic abnormalities . Oxidative & hematologically abnormalities usually occur 4 weeks after subacute garlic toxicosis .

**Keywords:** garlic tablets, clinical pathology, Pathologic, high doses, cats

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## **Levamisole toxicity in sheep**

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**Levamisole toxicity in sheep (a case report)** Levamisole is a acceptable antinematodal drugs because of it is broad range of activity in a large number of worms. It is effective against of lung and gastrointestinal nematodes. The dose of levamisole should be calculated carefully because toxic dose of levamisole one or two times therapeutic dose . 20 sheeps were represented with a history of muscle fasciculation,spastic movement,depression ,diatthea,head shaking while levamisole (15 mg/kg as drench) had used to treat gastrointestinal nematodes infestation. By attention following signs of levamisole toxicity was diagnosed.diazepam, vit B1 and magnesium sulfate were administered to treat, therefore 10 sheepes were saved from levamisole toxicity effect . It's mechanism of action is similar to nicotine by causing prolonged depolarization and neuromuscular junction blockade.

**Keywords:** levamisole, sheep, toxicity, muscle fasciculation, depolarization