261

1 0.5 0.2

(

STUDY OF THALLIUM INTOXICATION IN BROILER CHICKS

Hashim .H. Majid

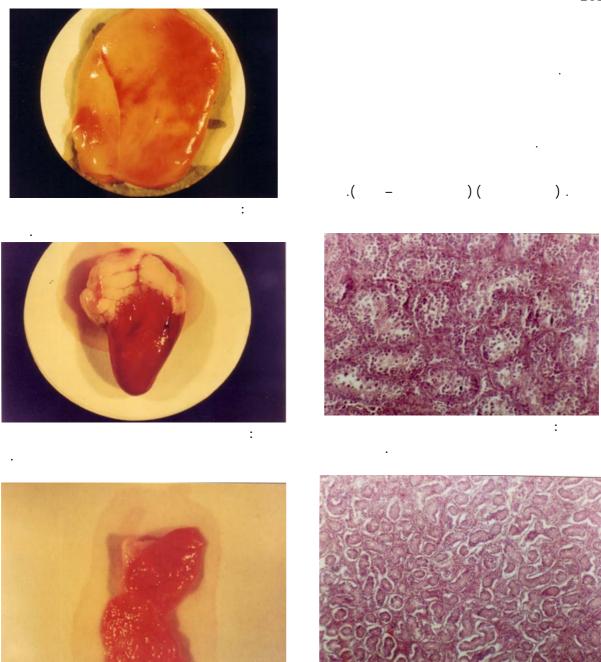
College of Medicine, University of Diyala. Diyala-Iraq

Abstract

The study of thallium intoxication on 120 broiler chicken by using different doses of thallium, 0.2; .5 and 1.0 mg/kg. B.Wt. it was observed that the clinical sign, bloody diarrhea, appeared in the last ten days of the experiment. In second and third group the pathologic changes was hemorrhages and edema of skeletal muscles and brain. Petechial hemorrhage in the testis, ovary and thyroid gland. The histopathological changes were comprised of hyperplasia, cellular, infiltration in the thyroid gland, narrow cortex of the ovary, in the brain there were remarkable edema with perivascular cuffing and loss of purkinge cells in the cerebellum. The results suggest that thallium was accumulative.

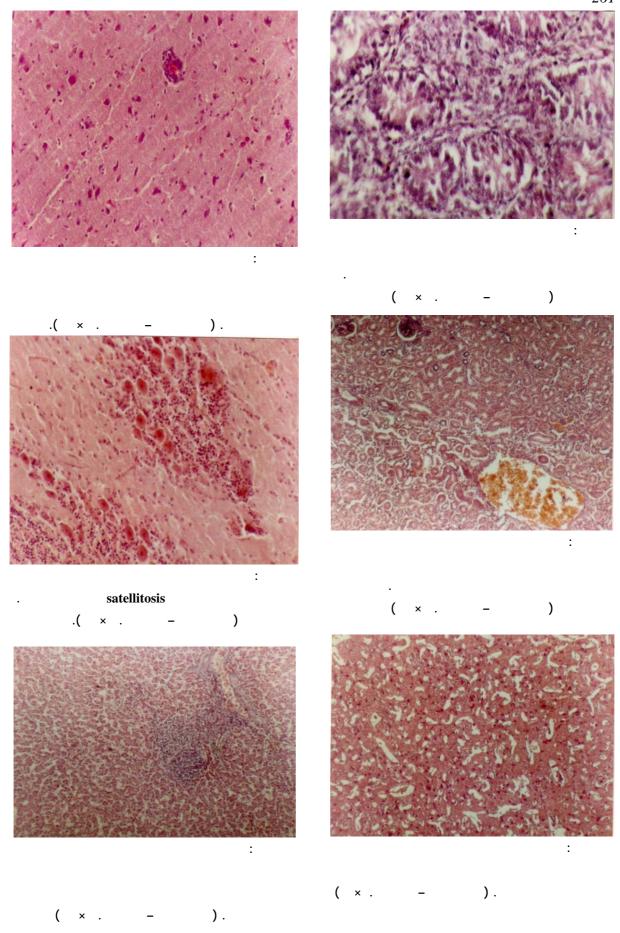
.[]

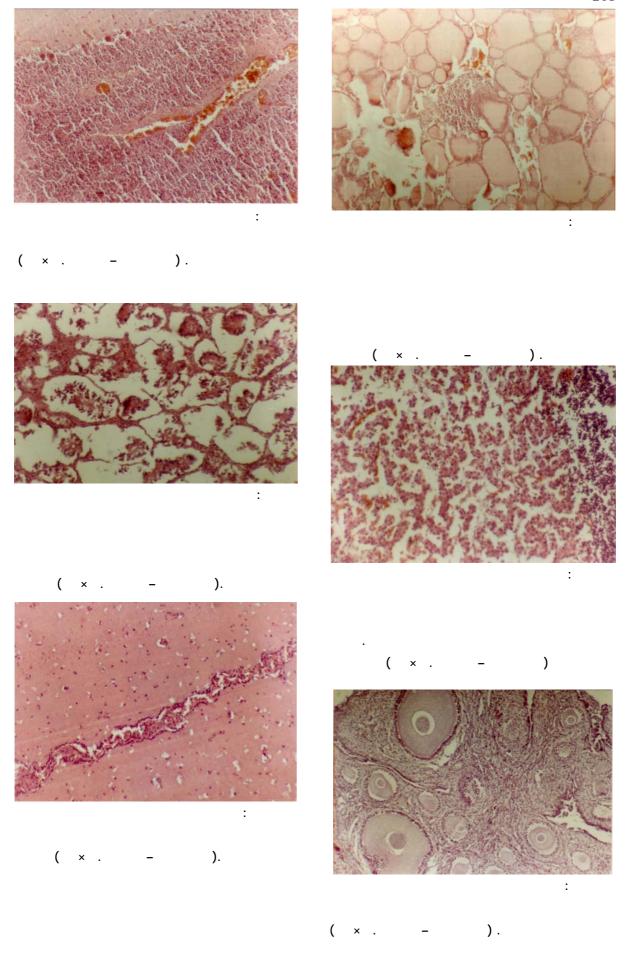
```
(
                 ( )
    1 0.5 0.2
      .(Incordination and paralysis)
           ( )
                                   (
                                                     )
                                        .(
(0.5
        )
     (
```

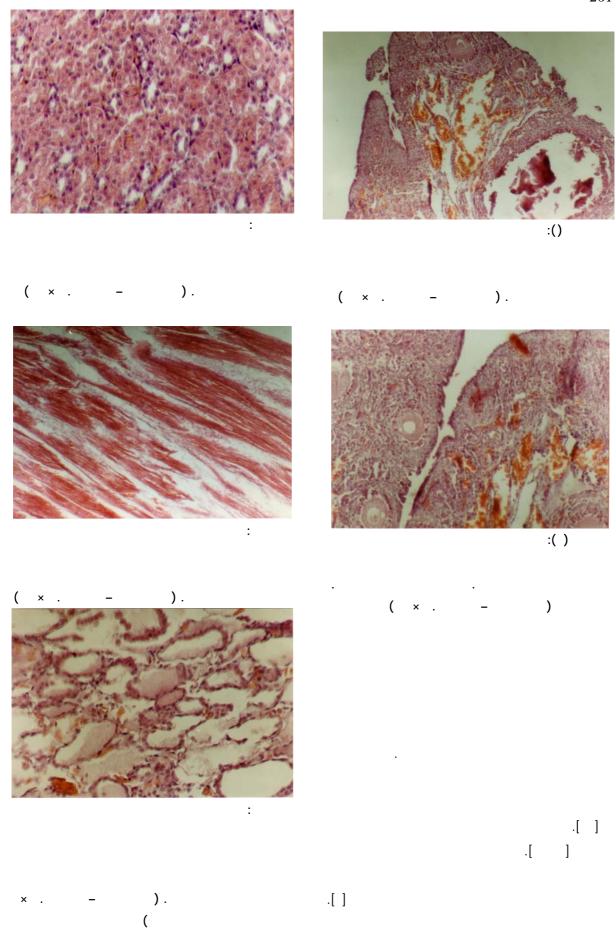


(× . –).

:







[] .[]

.[].

]

].

- 1. Allsop, J. L. **1986**. Thallium Poisoning Aus. *Ann. Med*, **2**:144-166,
- 2. Bauman, R. **1980.** Experimental thallium effect in ratten and mice. Acta. Biolg pp.425-443.

- 3. Donitz, C. J. **1980**. Thallium poisoning; report of 6 cases south. *Med. J.* **5**:590-593.
- 4. Friedman, G.; Jacobson, ED. **1997**. *Gastrointestinal pharmacology and Therapeutics*. Philadelphia; Lippincott-Raven, pp.323-324
- 5. Goodman, LS. Hardman, JG. Limbird LL. Gilman, AG; Goodman and Gilman's. **2002**. *The pharmacological basis of therapeutics* 10th ed. New York; McGraw-Hill; P.831.
- 6. Gleason, M. N. **1983**. Clinical toxicology of commercial products. P.148.
- 7. Hatch R.C. **1986**. *Vet. Phar. And therapeutics*, 4th edition, pp.1250-1272,
- 8. Kowalczyk, DF. **1986**. *In Kirk RW editor*; current vet. Therapy IX. Philadelphia 1. WB Saunders. pp.128-130.
- 9. Mullins, L. J. and Moore, R. D. **1990**. The movement of thallium ions in muscle. *J. gen. physio*, **43**:759-773.
- 10. Larson, C. P; Keller, W. N. **1990**. Accidental canine thallium toxicosis. *Jar. Acad.* **M.10**:486-489.
- 11. Pile, C. H. **1990**. Thallium Poisoning in domestic felines; *As. Vet. J*, pp.14-18;
- 12. Zalups, RK; Koropatinck, J. **2002**. *Molecular Biology and Toxicology of Heavy Metals*. New York; Taylor & Francis. pp.404-406.