

cypermethrin and methylparathion 15 days had such effects as below:

- ① In dose of 1/95, The baby rats' body length increasing.
- ② In dose of 1/30, The baby rats' tail length increasing.
- ③ In dose of 1/95, the serum T_s, IgA increasing in female rats.
- ④ In dose of 1/300, the serum T increasing in male baby rats.

Key word Cypermethrin; Methylparathion; Reproductive hormone; Thyroid hormone; Immunological Function

This work was financed by The Natural Science Foundation of Yunnan Province, China (NO. 2002C0050M).

Effects of neurobehavior in offspring of Wistar rats after exposure to Cypermethrin and Methylparathion

Dali JIN

Institute of Environmental Medicine, School of Public Health,
Kunming Medical College, 650031 Kunming, Yunnan, P. R. China

Abstract

Object: To detect effects of neurobehavioral teratology in offspring of Wistar rats after pregnant exposure to combined pesticides of Cypermethrin and Methylparathion.

Methods: 48 pregnant Wistar were divided randomly into 4 groups. Three exposure group were forced fed from the first day to fifth day after conception, with 1/30 LD₅₀, 1/95 LD₅₀, 1/300 LD₅₀ Cypermethrin plus same equivalent doses of Methylparathion, respectively. The control group is force-fed with vegetable seed oil. Morris water maze tests of 50-days old 32 offspring were carried out. Double blind test was used in whole experiment.

Result: There were no significant differences in performance of Morris water maze ($P > 0.05$).

Conclusion: Pregnant Wistar rats were exposure to mixture of Cypermethrin and Methylparathion, neurobehavioral effects were not observed in offspring in this experiment.

This work was financed by The Natural Science Foundation of Yunnan Province, China (NO. 2002C0050M).