

ARTICLE

Year : 2014 | Volume : 6 | Issue : 3 | Page : 125-129

Histological effects of permethrin insecticide on the testis of adult wistar rats

Gabriel Olaiya Omotoso, Ismail Olasile Onanuga, Ridwan Babatunde Ibrahim

Department of Anatomy, Faculty of Basic Medical Sciences, College of Health Sciences, University of Ilorin, PMB 1515, Ilorin, 240003, Nigeria

Correspondence Address:

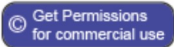
Gabriel Olaiya Omotoso
 Department of Anatomy, Faculty of Basic Medical Sciences, College of Health Sciences, University of Ilorin, PMB 1515, Ilorin, 240003
 Nigeria

 Login to access the email ID

Source of Support: None, Conflict of Interest: None



DOI: 10.4103/1947-489X.210373



Permethrin is a common constituent in some household insecticides. This study examined the effects of this chemical on the testicular histology of exposed rats. Fifteen adult male Wistar rats were subgrouped into a control and two treatment groups. The controls were fed on normal rat feeds, whilst the diet of animals in the two treatment groups was mixed with 500 mg/kg and 1000 mg/kg Permethrin respectively. An increase in body weights and organ weights was observed in the animals in both treatment groups. Various degrees of histological alterations in the structure of their seminiferous tubules were also observed in comparison with the control group. These abnormalities included disruption of the normal architecture, reduction in the population of mature sperm cells, wider luminal diameter and reduced interstitial spaces. These effects could impair the fertility potential of male subjects.

[\[PDF\]*](#)

 Print this article

 Email this Article to your friend

Next article

Previous article

Table of Contents

Similar in PUBMED

Search Pubmed for

- Omotoso GO
- Onanuga IO
- Ibrahim RB

Search in Google Scholar for

- Omotoso GO
- Onanuga IO
- Ibrahim RB

Related articles

- Permethrin
- Testes
- Histology
- Fertility

Citation Manager

Access Statistics

Reader Comments

Email Alert

*

Add to My List

*

* Requires registration (Free)

Article Access Statistics	
Viewed	67
Printed	2
Emailed	0
PDF Downloaded	5
Comments	[Add]
Cited by others	1

