

International Conference on **Cytopathology**

August 31-September 02, 2015 Toronto, Canada

Histological and immunohistochemical evaluation of the effect of orlistat on parotid salivary gland of adult male albino rats

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Orlistat 120 mg was approved as a prescription product by the FDA in 1999 for obesity management, Orlistat was purchased as a capsule with a trade name (Xenical) manufactured by Hoffmann-La Roche, Germany. This study was conducted to evaluate the effect of oral administration of orlistat on parotid salivary gland of rats. The study was carried out on 45 healthy adult male albino rats of average weight (150-180) grams. The rats were divided into two groups, control group (15 rats) fed only on ordinary rat diet and experimental group (30 rats) divided into 2 groups (A) and (B) fed on diet supplemented with orlistat at a dose of 200 and 400 mg/kg. On termination of each month, 5 animals from each group will be humanely sacrificed and the parotid tissues were dissected out, cleaned and fixed in 10% buffered formalin solution. Then, paraffin wax sections were obtained and stained with: Haematoxylin and Eosin stain to verify histological details and histological changes happened in the parotid gland structure and immunohistochemical stain for visualization of TNF-alpha antibody utilizing Dako LSAB Kits. Histological results in experimental group were time and dose dependent, experimental group (A) showed moderate destructive changes include the acini, ducts and also connective tissue capsules while in experimental group (B) these changes were markedly severe and destruction was obvious, immunohistochemical results showed that cytoplasm demonstrated immunopositive reaction which is time and dose dependent and that indicated destruction and apoptosis of glandular tissues.

Biography

Amr H El Bolok has completed his PhD from Faculty of Oral and Dental Medicine, Cairo University. He is the Head of Oral Pathology Department, Faculty of Dentistry; Minia University. He has published many papers in reputed journals in the prognosis and management of different oral diseases.

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