

The study was done as neurotoxicity research project on adult hen. Tri ortho cresyl phosphate (TOCP) was chosen as the best example for organophosphorus poison or neurotoxicity as most of the neurotoxicity research work was done by using (TOCP). In the present topic there will be various description of light microscopic changes but mainly will be using electron microscope as it is the only way to describe in detail any changes in peripheral and central nervous system including the main organelle e.g. mitochondria and synapses. The important of this work as it will be the best positive control for any insecticide or other chemical compound which can be develop by pharmaceutical company for use by man and animals. The birds (leghorn) which used were adult hen of (5-6 month) of age. The study was done in two forms, first form as acute delayed neurotoxicity by using single dose of 500 mg/kg for 21 days after that bird were sacrificed and light and electron microscopic was done on central and peripheral nervous system. The other part was sub chronic of 90 days by using 5 mg/kg as high dose, 2.5 mg/kg as intermediate dose and 1.25 mg/kg as low dose.

neurotoxicity of TOCP in hen



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## Neurotoxicity of tri ortho cresyl phosphate (TOCP) in adult hen

Light and Electron microscopic study



978-3-659-90863-7

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