Chronic Toxicity

- Chronic effect is the term which signifies harmful effects resulting from exposure to small doses of pesticides repeated over time.
- Some of the chronic effects that result from pesticide exposure are
 - Birth defects
 - Development of tumours
 - Nerve disorders
- Sub-lethal effects can produce structural abnormalities such as
 - Endocrine disruption
 - Growth reduction
 - Nerve function impairment
 - Lack of motility, behavioural changes, and the
 - development of terata (Fetus with deficient, redundant, misplaced, or grossly misshapen parts).

Cronic Toxicity

- To determine chronic toxicity estimations, the time period for which animals are exposed to sub-lethal doses can vary from months to several years. The following are some of the reactions for which the animals are assessed
- (i) Carcinogenesis cancer
- (ii) Teratogenesis birth defects
- (iii) Mutagenicity genetic changes
- (iv) Oncogenicity tumours
- (v) Reproductive reproductive problems
- (vi) Nervous nerve damage
- (vii) Immune allergic reactions

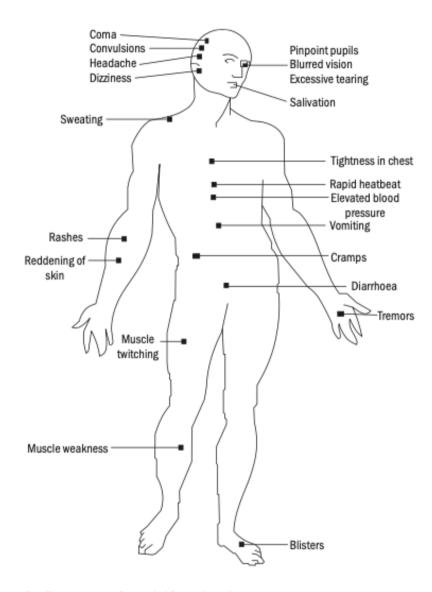
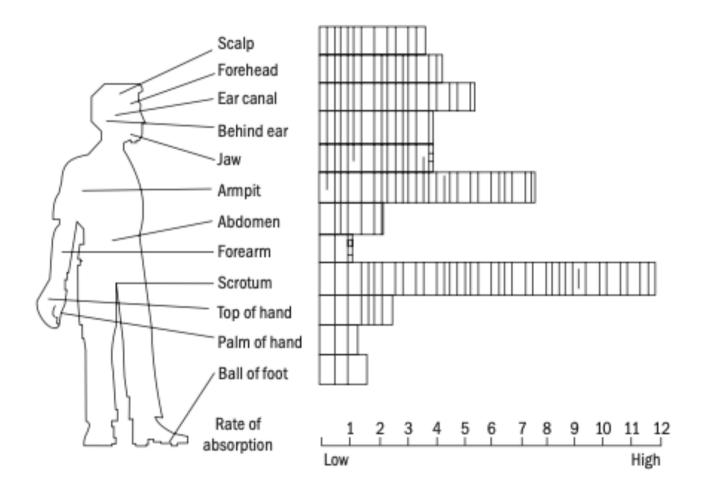
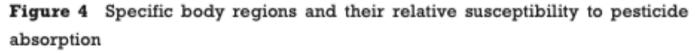


Figure 3 Symptoms of pesticide poisoning Source Whitford, Edwards, Neal, et al. (1992)





Source Whitford, Edwards, Neal, et al. (1992)