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## **P93. A REVIEW ON ACUTE TOXICITY OF A PESTICIDE ON HUMAN HEALTH**

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Pesticides are known as the chemicals for human needs in various fields. They are generally used for agricultural activities in research and application areas. These agricultural chemicals are grouped as herbicides, insecticides, and fungicides etc. Apart from that areas they are used in cosmetic, shampoo as cleaning products, cellulose production in construction sector, industrial activities and individual home uses as disinfection. Even if their usage is for meeting the human needs, these chemicals can cause environmental pollution and health poisoning such as acute and chronic toxicity on human. EU has focused on its toxicity and non-biodegradable effect in their regulations and so on Turkey make researches about these chemicals to adapt EU directives. Nowadays, it needs to be researched in detail due to widespread usage in agricultural areas, especially in Turkey. In our country, according to National Poison Center rate of human pesticide acute poisoning in these areas is given as 8.34 %. Its acute toxicity effects on receptors, human and non-target species, are the main concerns to be assessed as a risk. According to their chemical contents such as organophosphorus and organochlorine pesticides, their toxic effects will cause many health problems on human like neurotoxic, cardiovascular, endocrine disruption, allergic reactions via the ways of air, soil, water and foods with different dose in varying periods. Many researches declare that the concentration of pesticides in receptors should be investigated and determined in transparent to restrain its expected adverse effects with indicative parameters for acute toxicity.

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