

e-Study Guide for: Poisoning and Drug Overdose: Medicine, Toxicology

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Treatment of 2, 4-Dichlorophenoxyacetic Acid (2, 4-D) Poisoning; a Case Study

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ABSTRACT

Background: 2, 4-Dichlorophenoxyacetic Acid (2, 4-D) is an herbicide in chlorophenoxy group that use as a weed killer. Acute poisoning with 2, 4-D may be fatal in large ingestion. There is no specific antidote for 2, 4-D herbicide poisoning. We report here a case of 2, 4-D toxicity with rhabdomyolysis.

Case Report: In this case study we present a case of intentional consumption of 2, 4-D herbicide with main gastrointestinal complain that became toward rhabdomyolysis and liver damage during hospital course. Successful treatment with sodium bicarbonate and other conservative therapies was performed.

Conclusion: In cases of 2, 4-dichlorophenoxyacetic acid poisoning, rhabdomyolysis should be in mind and an alkaline diuresis can increase herbicide elimination as well as treatment of rhabdomyolysis should be considered.

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► Implication for health policy/practice/research/medical education: 2, 4-Dichlorophenoxyacetic Acid (2, 4-D) Poisoning

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1. Introduction:

There are many kind of pesticides to

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protect farming from harms. Three main groups of them are insecticides, herbicides and rodenticides. 2, 4-Dichlorophenoxyacetic Acid (2, 4-D) is an herbicide, in Chlorophenoxy herbicide group. Ingestion, skin contact and inhalation are three main of human exposure to 2, 4-D herbicides (1). 2, 4-D

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cases of severe sedative-hypnotic poisoning are deliberate (suicidal). Alprazolam (Xanax) is relatively more toxic than other benzodiazepines in overdose. . Fast Five Quiz: Do You Know the Signs of and Best Treatment for.D., E. Martin Caravati American Association of Poison Control Centers, Washington, This guideline applies to ingestion of atypical antipsychotic medications alone. .. of patients with atypical antipsychotic medication toxicity or overdose. . An epidemiologic study of aripiprazole ingestions reported to Texas poison.Your AAPCC Board of Directors and CSPI Exam Committee members salute your Board of Medical Toxicology instead. Center Clinical Management of Poisoning and Drug Overdose by Haddad, Shannon, & Winchester. . E. AAPCC Specialist in Poison Information Certification Examination Topics.Poisoning, Overdose, Pills, Capsules, Visualization, *Emergency Room/ Division of Medical Toxicology, Hazrat Ali-Asghar (p) Hospital, Shiraz University.

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