

Review Form 1.6

Journal Name:	International Journal of Medical and Pharmaceutical Case Reports
Manuscript Number:	Ms_IJMPCR_93544
Title of the Manuscript:	ALKALINE DIURESIS AS TREATMENT FOR 2,4-D DIMETHYLAMINE HERBICIDE INTOXICATION
Type of the Article	Case study

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijmpcr.com/index.php/IJMPCR/editorial-policy>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>This case report describes the effectiveness of alkaline diuresis as a life-saving treatment in 2, 4-D dimethylamine herbicide intoxication.</p> <p>Very few documented poisoning cases with this compound have been reported.</p> <p>A 22 year old male had attempted suicide by ingesting 2,4-D dimethylamine, with toxic effects on the central and peripheral nervous systems, and the gastrointestinal and respiratory systems.</p> <p>In this case, septic shock was also found as demonstrated by symptoms, physical examination and laboratory results.</p> <p>The mechanism of toxicity is unclear, but mitochondrial injury is described. Cell membrane damage, uncoupling of oxidative phosphorylation, and disruption of acetyl Coenzyme A metabolism are found.</p> <p>There has been no specific antidote for 2, 4-D dimethylamine intoxication.</p> <p>Literature search resulted in finding a role of forced alkaline diuresis in its management.</p> <p>Urine alkalinisation promotes ionization of the phenoxy acid, decreases reabsorption from the renal tubules, and results in enhanced elimination.</p> <p>Treatment was accompanied by other therapies including initial emergency resuscitation, decontamination of the gastrointestinal system, and supportive treatment.</p> <p>Timely administration of an alkaline diuresis was life-saving.</p>	
Minor REVISION comments		
Optional/General comments	Well managed case.	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

Reviewer Details:

Name:	R. Selvaraj
Department, University & Country	Gauri Devi Institute of Medical Sciences, India