

Spontaneous Pneumothorax in Mixed Poisoning Presented as Daisley Barton Syndrome

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Abstract : Background: The herbicide has toxicological importance because some of them are associated with high mortality rates due to respiratory failure. Organophosphate poisoning (OPC) & Paraquat self-poisoning is a major clinical and public health problems in low and middle-income countries across much of South Asia. Paraquat was not used as a common suicidal agent previously in Bangladesh. We report a case of 15 years old female admitted to the ER with a history of nausea & vomiting after ingestion of an unknown substance in a suicidal attempt, later identified as mixed poisoning- OPC & Paraquat. She was initially asymptomatic but later developed renal shutdown & lung injuries as well as pneumothorax, referred to as Daisley Barton Syndrome. Objective: This case report aims to alert spontaneous pneumothorax in mixed poisoning on uncommon forms of presentation. Pneumothorax in a patient with paraquat poisoning is a less unusual but underdiagnosed finding. It has a high index of early mortality. Case history: The patient's attendant complained about nausea followed by vomiting, which was nonprojectile & contains undigested food materials first, then gastric juice later. After a few hours, she also complains of urinary retention. Her family members treated her with some home remedies for her initial symptoms, but all attempts failed. After admission, the patient was initially asymptomatic. Through repeated history taking, her attendant showed a bottle of OPC in liquid form, which they suspected that she may have ingested some of the liquid from that bottle accidentally or attempted Suicide. So, management started for OPC poisoning. She responded well initially, but on 4th day of admission, the patient's condition became deteriorating. After the workout with the family member, 2nd bottle of Pesticide was discovered, which was Paraquat. Conclusion: Physicians should be aware of the symptoms of mixed poisoning and the timely use of urine dithionate testing for early detection and treatment. Pneumothorax is an early predictor of mortality in patients with paraquat poisoning.

Keywords : pneumothorax, suicide, dithionate, OPC, herbicide

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