Poster Abstracts

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2 CASES OF CARDIAC ARREST AFTER INTENTIONAL INGESTION OF ELECTRONIC CIGARETTE LIQUID

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Electronic nicotine delivery system or electronic cigarette (EC) is a device that aerosolized liquid nicotine by heating a solution of nicotine, glycerol and flavoring agents. We present two patients with cardiac arrest resulting from the suicidal ingestion of EC liquid. The intoxication of nicotine from EC liquid reported that have only minor effects. Over 20% of exposure showed no symptoms and common symptoms were vomiting, nausea, ocular irritation and dizziness. In our cases, the intentional ingestion lead to seizures, myocardial dysfunctions and cardiac arrests. One patient exposed to about 23mg/kg and the other patient exposed to about 30mg/kg. As the LD50 for nicotine in human is 1mg/kg, these doses exceeded the lethal dose. In intentional exposures, large amount of EC liquid usually exposed that lead to cardiac arrest. With the increment of EC usage and the absence of the proper regulation for EC liquid, the concerns about the toxic exposure has increased. These cases warn that the ingestion of EC liquid can be one of the emerging method for suicide especially in young adults and adolescents.