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Acute Kidney Injury due to Intravenous Detergent Administration: A Case Report

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Case Study: Most cases of detergent poisoning occur through oral ingestion, and those that occur through an intravenous injection are extremely rare. Here, we report a unique case of acute kidney injury caused by detergent poisoning through an accidental intravenous injection. A 61-year-old man was intravenously injected with 20 mL of detergent by another patient in the same room of a local hospital. The patient complained of vascular pain, chest discomfort, and nausea, and was transferred to our institution. After hospitalization, the patient's serum creatinine level increased to 5.42 mg/dL, and his daily urine output decreased to approximately 300 mL. Renal biopsy findings noted that diffuse acute tubular injury was observed; however, the glomeruli were relatively intact. Generalized edema was also noted, and the patient underwent a total of four hemodiafiltration sessions. Afterward, the patient's urine output gradually increased whereas the serum creatinine level decreased. The patient was discharged in a stable status without any sequelae. In treating a patient with detergent poisoning, physicians should be aware that the renal function may also deteriorate. In addition, timely renal replacement therapy may help improve the patient's prognosis.

Changes in the serum creatinine level and urine output during hospitalization

