

**Keywords:** Renal toxicity; Kidney; Chemicals

**Introduction**

Chronic renal toxicity can cause systemic symptoms such as fatigue, malaise, and weakness due to the accumulation of waste products and metabolic imbalances in the body [9,10].

### Management and prevention

The management of renal toxicity depends on identifying and addressing the underlying cause, minimizing further exposure to nephrotoxic agents, and providing supportive care to preserve renal function. Treatment strategies may include:

If renal toxicity is suspected to be medication-induced, discontinuing the offending agent is essential to prevent further renal damage.

### Discussion

Adequate hydration is crucial for maintaining renal perfusion and function, particularly in cases of dehydration or volume depletion. Symptomatic treatment may include electrolyte replacement, blood pressure management, and supportive measures to alleviate symptoms such as nausea, vomiting, and fluid overload. In severe cases of acute kidney injury or advanced chronic kidney disease, dialysis may be necessary to remove waste products and maintain fluid and electrolyte balance. Preventing renal toxicity involves minimizing exposure to nephrotoxic agents, staying hydrated, maintaining a healthy lifestyle, and managing underlying medical conditions that predispose to kidney damage.

### Conclusion

In conclusion, renal toxicity poses significant risks to human health, affecting millions of individuals worldwide each year. Understanding the causes, mechanisms, and clinical manifestations of renal toxicity is essential for early recognition, prompt intervention, and prevention of

complications associated with kidney injury. By adopting preventive measures and promoting kidney health awareness, we can mitigate the burden of renal toxicity and improve outcomes for individuals at risk of renal injury.

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