ARTICLE 999

Rhabdomyolysis

8 KEY POINTS

1 PRESENTATION	2 DIAGNOSIS
'it is a triad of myalgia, myoglobinuria (tea- colored urine), and weakness.' - But 'less than 10% present with classic symptoms'.	'Elevated CPK is the most sensitive laboratory test for the evaluation of muscle injury.' - But this does not correlate 'with the severity of muscle damage and renal failure'
3 TREATMENT	4 CAUSES - NON-TRAUMATIC
Is supportive, with proper hydration. 'Delay in fluid resuscitation may cause worsening hypovolemia secondary to third spacing.'	'Seizures, alcohol use, drugs, and prolonged bedridden state'; a main feature is a 'mismatch between oxygen supply and demand, electrolyte changes, and metabolic abnormalities.'
'Potassium-containing IV fluids like Ringer's lactate are generally avoided.'	In children, infection is the most common cause.
5 CAUSES - TRAUMATIC	6 PROGNOSIS
In major trauma, 'crush syndrome from accidents, earthquakes, and other natural and manufactured disasters.' Can also occur in limb fractures, sepsis, and many other causes.	'Children are at low risk for crush syndrome and have better mortality compared to adults.' - But 'rhabdomyolysis from traumatic causes has a poor prognosis when compared to non- traumatic.'
PROGNOSIS - WITH 'COMMON 7 COMPLICATION' (AKI)	8 TRAUMATIC CAUSE + AKI TREATMENT
'Even without acute kidney injury, the mortality rate is about 20%, and with kidney injury, mortality is about 50%.'	'6 to 10% of patients with crush syndrome with acute kidney injury in survivors of the Bam earthquake in Iran required hemodialysis'

Reference:

Stanley M, Chippa V, Aeddula NR, et al. Rhabdomyolysis. [Updated 2023 Apr 16]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK448168/