To the Editors:

Quadripareisis after a wasp sting

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A 30-year-old male patient, employed as a security guard, was brought to the hospital with weakness of all four limbs after being stung by a wasp on the back of the neck the previous evening. He had mild swelling and pain at the site, which resolved on the same day. The patient had received an intramuscular injection of tetanus toxoid that night. The next morning the patient awoke from sleep and realised that he was unable to rise from bed, due to weakness in the upper and lower limbs. He was otherwise healthy and had no history of recent medications or abuse of drugs or alcohol.

On admission he was conscious, co-operative and oriented. He had flaccid quadripareisis with weakness of proximal and distal groups of muscles and power of grade 2/5. There was weakness of neck muscles with head lag. Deep tendon reflexes of the upper limbs were sluggish. Lower limb reflexes were normal with bilateral flexor plantar response. There was no sensory loss and the cranial nerves were normal. Examination of other systems was normal. Full blood count, liver, renal and thyroid function tests were normal. Human immunodeficiency virus (HIV) and hepatic viral markers were negative. Serum sodium, chloride, calcium, phosphate, magnesium, random sugar, creatinine and phosphokinase levels were within normal range. Arterial blood gas analysis, chest radiograph and ultrasound of abdomen and pelvis were normal.

Since serum potassium level was very low, 1.3 mEq/ dl (normal range 3.5-5 mEq/ dl) and ECG showed prominent U waves, a diagnosis of hypokalemic paralysis was made. Potassium was replenished and muscle power returned to normal in all four limbs after 48 hours, and ECG changes resolved. Nerve conduction studies were normal in all limbs. The patient recovered completely and remained asymptomatic at follow up after one year.

Quadripareisis has been reported after wasp stings due to acute inflammatory demyelinating polyneuropathy, encephalo-myeloradiculopathy and hypokalemia associated with type I renal tubular acidosis [1-3]. It appears that the wasp venom has the potential to induce muscular paresis by inducing hypokalemia only as shown in this case.

References


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To the Editors:

Reply: Takotsubo cardiomyopathy after an emotional outburst

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With interest we read the article by Shyamali et al. about a 63-year-old female with classical Takotsubo syndrome (TTS) after an emotional argument with her daughter-in-law [1]. We have the following comments.

Physical stress triggering TTS may not only be trauma, surgery, or severe illness, but also central nervous system disorders, such as subarachnoid bleeding, epilepsy, ischaemic stroke, intracerebral bleeding, posterior reversible encephalopathy syndrome (PRES), amyotrophic lateral sclerosis, bacterial, viral, or immune-mediated meningitis / encephalitis and traumatic brain or spinal cord injury. Rare causes of central nervous system triggers of TTS include hydrocephalus, subdural haematoma, venous aneurysm, brain tumour, hepatic encephalopathy and multiple sclerosis [2]. Though apical ballooning is the common abnormality in TTS, other parts of the left ventricular wall may be involved rarely [3]. The prognosis of TTS is usually good in the majority, but the outcome may be poor if the underlying trigger is a severe disorder, if the global type of TTS is present, or if TTS is complicated by severe rhythm abnormalities [4]. During treatment catecholamine should be avoided in TTS despite severe systolic dysfunction, since catecholamine storm is regarded as the principal pathogenetic factor of TTS [5].

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