

We present an unusual case of acute hypercalcaemia of (5.5mmol/L) in a challenging circumstances in a 37 year old lady with confirmed sarcoidosis that had no other cause and required aggressive management to normalise it and necessitate starting of calcitonin. This 37 years old female patient, with a background of type 2 diabetes mellitus and sarcoidosis presented to the acute medicine unit with few days history of lethargy and confusion, her lood test showed calcium level of 4.8 mmol/L which interestingly went up to 5.5mmol/L after aggresive rehydration

This case is unusual in many aspect - such level of high calcium is uncommon with sarcoidosis, This patient did not require vitamen D or steroid supplement previously, providing that steroid needs 2-5 days to act calcitonin was the best option for rapid calcium reduction which was effectivly able to bring the calcium level down within few hours...

Case presentation

A 37 years old female patient, with a background of type 2 diabetes mellitus and sarcoidosis presented to the emergemy department with lethargy and palpitation . On examination she was found to be confused and clinically dehydrated.

Investigations

initial investigation reported a high calcium level of (5.5mmol/L), acute kidney injury and sinus tachycardia on ECG. Further investigation illicited normal phosphate and vitamin D with suppressed(parathyroid hormone 7 ng/L) and a high but stable (ACE level 169 u/L).

An unusual hypercalciemia presentation in sarcoidosis

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Abstract

Treatment, **Outcome** and **follow-up**

The patient was treated agrresivley with IV fluids, received 5 L /24h, then prednisolone 20 mg orally was prescribed with interestingly rebound rise in calcium levels from 4.3mmol/L to 5.5mmol/L over 12 hours, which raised concerns so prescribing calcitonin was the next wise and crucial option of management in order to rapidly reduce the high calcium levels, calcitonin was given 100 units s/c which has led to dramatic reduction in calcium levels From 5.5mmol/L to 3.4mmol/L following that she was commenced on regular oral tapering steroids regime, and discharged home in 6 days with calcium level of 2.9 mmol/L on alendronic acid 70mg orally once a week. up to the latest follow-up which is 2 months after discharge her calcium still maintained in a range of 2.2mmol/L, with a plan of continue steroid tapering and 2 weekly and then 3 monthly calcium check up.

This case is unusual in many aspect; - such level of high calcium is uncommon with sarcoidosis -This patient did not require vitamen D supplement previously which can precipitate hypercalciemia in sarcoidosis -providing that steroid needs 2-5 days to act calcitonin was the best option for rapid calcium reduction which was effectivly able to bring the calcium level down within few hours.

Discussion