TITLE

CASE REPORT ON SYMPTOMATIC HYPOCALCEMIA ASSOCIATED WITH ACUTE SEVERE MALARIA - NEED FOR VIGILANCE

¹Akinyele Akinlade, ²Michael Olamoyegun, ³Ofem Enang

¹Genera; Hospital Odan, Lagos; ²Ladoke Akintola University Teaching Hospital Ogbomosho, Oyo State; ³University of Calabar Teaching Hospital Calabar, Cross River State

BACKGROUND	CASE
The commonest cause of hypocalcemia is	A 25 year-old Polytechnic student who presented at the emergency department with a 5-day history of high grade fever
hypophyminamia and ite	(30.20C) with chills and right appendized body weakness

hypoalbuminemia and its presentation varies widely, from asymptomatic to life-threatening situations. Hypocalcemia is frequently encountered in patients who are hospitalized. Depending on the cause, unrecognized or poorly treated hypocalcemic emergencies can lead to significant morbidity or death (39.2°C) with chills and rigor, generalized body weakness, postpandrial vomiting, epigastic pain and passage of melena and feeling of cramps in her hands and feet. Has no history of PUD but had used NSAIDS for pains and the cramps. Her RBS was 155mg/dl. Genotype unknown. Pregnancy was excluded.
Her clinical examination showed an acutely ill-looking, febrile (T 39.2°C), not pale, anicteric, nil pedal edema, demonstrable carpopedal spasms
P84/min irregular, normal volume
BP 133/103mmHg, by next day 111/81mmHg

Total calcium -1.37 (2.1 2.5) mmol/L (at admission) RESULTS

Creatinine [80.48 (45 [110) umol/L

Magnesium [0.86 (0.7 [1.15])mmol/L

```
Total Calcium - 1.8 (2.1 2.5) mmol/L
(next day after Ca gluconate infusion)
Total Calcium - 2.16 (2.1 2.6) mmol/L
(5<sup>th</sup> DOA)
Corrected calcium 2.34 (2.1 2.6) mmol/L
(5<sup>th</sup> DOA)
Albumin 30.05 (35 50) g/L
Phosphate 1.89 (1.0 1.5) mmol/L
Electrolytes – normal
Urea 2.13 (2.5 8.0) mmol/L
```

Phosphate 0.97 (0.8 1.4)mmol/L (5th DOA) PTH 38.6 ()pg/ml TFT normal Abdominal and Neck USS No parathyroid enlargement and no abdominal abnormality CBC 1Hb 12.7g/dl, low MCV and MCH. Normal WBC ECG findings Sinus rhythm, APCs,

prolonged QTc





She was treated as a case of acute severe malaria with hypocalcemic tetany and upper GI bleeding She got better with 10% calcium gluconate infusion, antimalarial and parenteral rabeprazole. Was discharged on the 5th DOA to MOPD for follow up on oral calcium supplements and rabeprazole A high index of suspicious is necessary in order not to miss the diagnosis of hypocalcemia, particularly if it presents with an unrelated medical illness such as malaria fever

