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Hypocalcemia-induced Camel-hump T-wave, Tee-Pee sign, and bradycardia in a car-painter of a complexed dilemma; A case report

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Rationale: Electrocardiographic is a fundamental tool for a cardiologist, critical care physician, and emergency medicine specialist. The electrolyte imbalance is a very important entity in clinical medicine management. Camel-hump T-wave and the Tee-Pee sign, recently; Wavy triple and Wavy double signs of hypocalcemia (Yasser's sign) are electrocardiographic findings linked to electrolyte deficiencies.

Patient concerns: A middle-aged male car-painter patient presented to the emergency department with atypical severe twisting chest pain, hypocalcemia, hypokalemia, and hypernatremia.

Diagnosis: Hypocalcemia-induced Camel-hump T-wave, Tee Pee sign, Wavy double sign of hypocalcemia (Yasser's sign), and bradycardia in a car-painter.

Interventions: Electrocardiography, arterial blood gases, oxygenation, and echocardiography. Lessons: The dramatic reversal of Camel-hump T-Wave, Tee-Pee sign, Wavy double sign of hypocalcemia (Yasser's sign) after calcium gluconate injection interpret that these signs were due to hypocalcemia. The twisting chest pain and its limited disappearance immediately after calcium gluconate injection indicate the pain can be named as "chest tetany". Non-atropine bradycardia response is evidence that the management of the cause of bradycardia sometimes is essential e.g. hypocalcemia in the current case.

Outcomes: There was a dramatic response of both clinical and electrocardiography including Camel-hump T-wave, Tee Pee sign, the wavy double sign of hypocalcemia, and bradycardia.

Keywords: Hypocalcemia, Camel-hump T-Wave, Tee Pee sign, Bradycardia, Car-painter, A complexed dilemma

Abbreviations:

ABG: Arterial blood gases

ECG: Electrocardiogram

IHD: Ischemic heart disease

O2: Oxygen

RBBB: Right bundle branch block

VR: Ventricular rate

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