

Trousseau's**Truce-handshake**

Because respiratory alkalosis causes a decrease in ionized calcium, Trousseau's sign may be observed. To test for this, begin by placing a blood pressure cuff around the upper arm, inflate the cuff to greater than the patient's systolic pressure, and keep it inflated for 1-4 minutes. Under these hypoxic conditions, a positive Trousseau's sign occurs when the hand and fingers go into spasm in palmar flexion.

Chvostek's Sign**Chopsticks**

Because respiratory alkalosis causes a decrease in ionized calcium, Chvostek's sign may be observed. To test for this, tap directly on the facial nerve in front of the mastoid bone to trigger facial twitching of one side of the mouth, nose, and cheek. Twitching of the facial muscles is a positive sign of hypocalcemia.

Anxiety**Anxiety-bag**

An acute anxiety attack can result in a rapid and severe hyperventilation respiratory response which can result in significant amounts of CO₂ loss and quick onset of alkalosis. The patient may also begin to experience tachycardia due to the anxiety.