Spontaneous rectus sheath haematoma secondary to severe coughing in a patient with no other precipitating factors

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DESCRIPTION

A 62-year-old woman with a past medical history significant only for hypertension and hypothyroidism presented to the emergency department (ER), with right lower quadrant pain. She had, 1 day prior to the day of admission, been treated for bronchitis as an outpatient. She continued to experience multiple episodes of cough at home and eventually developed abdominal pain, which brought her to the ER. Her vitals were within normal limits and physical examination was significant for tenderness on palpation in the right lower quadrant of her abdomen, with guarding. Her blood work was significant for haemoglobin of 6.5 g/dL. Our initial impression was acute appendicitis and internal haemorrhage.

Figure 1 Axial view of CT of the abdomen with contrast showing haematoma between the rectus abdominis sheath at the level of the kidneys.

Figure 2 Axial view of CT of the abdomen with contrast showing haematoma between the rectus abdominis sheath below the level of kidneys.

Figure 3 Sagittal view of CT of the abdomen with contrast showing haematoma between the rectus abdominis sheath.

CT scan of the abdomen and pelvis with contrast revealed a large right sided haematoma within the rectus abdominis sheath (figures 1–3). The patient was not on any anticoagulation or antiplatelet agent. She was transfused with 2 units of packed red blood cells, her pain was managed with medications and ice packs and cough was controlled with antitussives. Clinically, the patient improved and subsequent blood work revealed stable haemoglobin.

Learning points

- ▶ In patients presenting with acute abdominal pain without obvious precipitating factors, an abdominal wall haematoma should be taken into consideration.
- ▶ Ultrasonography is a useful and inexpensive initial test while CT scan remains the preferred diagnostic test for abdominal wall haematoma.
- ▶ Conservative management should be considered in contained haematomas without signs of growth or additional bleeding.
- ▶ Usually, cough is considered benign and often undertreated, it can lead to rupture of fragile blood vessels, which can lead to conditions such as haematoma and haemoptysis.

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Common causes of rectus sheath haematoma are trauma, pregnancy, collagen disorders, muscle disorders, anticoagulation and exercise. Straining during defaecation or coughing can also cause spontaneous rectus sheath haematoma, but often these patients are taking some form of anticoagulation or antiplatelet therapy.¹ Even though ultrasonography can be a useful initial test, CT scan is the diagnostic imaging of choice.² Management is usually conservative, focusing on correcting the anaemia and reversal of the anticoagulation if indicated. Surgery is indicated in cases of infection, severe pain or rupture into peritoneal cavity.³

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