Clinical examination and X-ray: an old approach to a current problem

Patricia Silva,1,2 Pedro Leão,1,2 André Goulart1,2

DESCRIPTION

Ingesting a foreign body is not an uncommon occurrence. Most pass through the gastrointestinal tract uneventfully, and perforation is rare.1 The preoperative diagnosis, in these cases, is always very difficult and the radiological examinations are not always able to resolve the diagnostic. The mortality and the morbidity remain still high first of all for the delay in the diagnosis and the advanced age of patients.2

A 50-year-old man without relevant medical history was admitted to the emergency department with 4 days evolution of abdominal pain. The patient presented continuous abdominal pain at the left lower quadrant. There was no nausea, vomiting, alterations of bowel habits or fever.

On examination, the patient was in painful distress. Vital signs revealed tachycardia at 110 bpm, blood pressure of 120/64 mm Hg but no fever (36.8°C). Abdominal examination revealed diffuse tenderness and pain more intense at the left lower abdomen, peritoneal signs, tympany and reduced bowel sounds. Laboratory tests showed an elevated white cell count (15 000/μL with left shift).

An abdominal X-ray revealed free intraperitoneal air and an image compatible with a foreign body at left lower abdomen (figure 1). The decision was made to perform an exploratory laparotomy. Purulent peritonitis was observed and bowel inspection revealed a perforation of colon sigmoid by a toothpick (figure 2). The foreign body was removed, and the sigmoid perforation was repaired with interrupted sutures PDS 3–0. The postoperative course was uneventful with discharge at fifth postoperative day.

Figure 1 Abdominal X-ray (arrow: foreign body).

Figure 2 Sigmoid perforation.

Acute abdominal pain accounts for 5%–10% of all emergency department visits. Rapid and accurate diagnosis is critical to ensure optimal outcomes.3 Despite the increased availability of CT scans in the emergency departments, an abdominal X-ray continues to be an important imaging method to approach an acute abdomen. The advantages of X-ray in this setting are that it is easier to use, cheaper and quicker than a CT and provides, like in this case, sufficient results to make a decision.

Like we learn, there is a ‘step’ in imagiological studies that we cannot overcome. So, the main idea of this work is to call attention to young doctors that there is a place for ‘old’ exams in modern medicine.

Learning points

► Abdominal pain is a common admission reason to the emergency department.
► X-ray allows a rapid evaluation of the patients with acute abdominal pain and, in some cases, is sufficient to make a decision.

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REFERENCES
