Management of small bowel perforation following foreign object ingestion

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CASE PRESENTATION

A 55-year-old female with no significant past medical history presented with 2 days of abdominal pain after chicken bone ingestion. She was hemodynamically stable, afebrile, and without significant leukocytosis (WBC 9.9 k/ul) or lactic acidosis (<0.66 mmol/l). Her abdomen was soft with point tenderness in the right lower quadrant without signs of peritonitis. A CT with oral and intravenous contrast demonstrated a 2–4 cm thin, linear, hyperdense structure 8 cm proximal to the ileocecal junction that was partially extending outside the bowel wall (Fig. 1a). The patient was given empiric intravenous antibiotics and brought to the operating room. Adherent loops of bowel were identified and bluntly dissected laparoscopically. The perforated segment of small bowel was then identified with the protruding foreign object. The foreign object was then carefully extracted (Fig. 1b) and the defect was closed with a figure-of-eight silk suture. Her postoperative course was uneventful and she was discharged 2 days later.

After ingestion of a foreign object, perforation of the small bowel most likely occurs in areas of decreased motility such as...
the duodenum and proximal to the ileocecal valve. While initial imaging of suspected perforation may include plain radiographs, detection of extraluminal air indicative of perforation only ranges from 50% to 70% and often fails to localize the injury [1]. Therefore, the most useful imaging modality is computed tomography which is highly sensitive and specific for extraluminal air, location of the foreign body, and level of perforation [2]. Once injury is identified, patients should proceed to operative management including endoscopy, laparoscopy or open repair depending on level of involvement and degree of contamination.

CONFLICT OF INTEREST STATEMENT
No conflicts of interest declared.

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ETHICAL APPROVAL
Not required.

CONSENT
Patient consent for study inclusion obtained.

GUARANTOR
SL is the guarantor of this article

REFERENCES