Letters to the Editor

posed of milk), or trichobezoars (composed of hair). Phytobezoars account for 40% of all bezoars and are composed of materials of vegetable origin that human beings cannot digest (seeds, peels, roots, etc.); they develop through a multifactorial process. Individuals with a greater propensity to develop phytobezoars include not only vegetarians but also individuals who do not chew their food well, those with impaired gastric motility, and those with hypochlorhydria, as well as those who have undergone gastrectomy. A history of gastric surgery is a risk factor because it reduces the surface area of the stomach and acid secretions, causing inadequate digestion and allowing larger masses of agglomerated material to pass into the small intestine $^{(1-3)}$. Phytobezoars can also occur in patients who have had bariatric surgery. In addition to the aforementioned factors, nonabsorbable sutures can act as vegetable fiber hooks, resulting in a bolus that forms in the anastomosis. Phytobezoar formation evolves to intestinal obstruction in 60% of cases.

CT has become the imaging examination of choice for the diagnosis of acute abdominal obstruction, because it is a rapid method that produces high-resolution images to confirm the obstructive scenario, often making it possible identify the etiological factor. On CT, intestinal obstruction is characterized by dilated proximal intestinal loops (with a caliber > 2.5 cm), distal loops that are collapsed or are proportionally smaller than the proximal loops, and intraluminal air-fluid levels^(2,4).

The diagnosis of a phytobezoar should be considered in cases of intestinal obstruction when there is an obstructive intraluminal focal mass that is of low density and contains images suggestive of air bubbles^(2,4). Modifying the amplitude and centering of the imaging window can facilitate the identification of aspects characteristic of a bezoar, which has been described as looking like "a lump of bread". The differential diagnoses of a phytobezoar include foreign bodies, abscesses, and a worm

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Pyogenic liver abscess as a late complication after embolization of a hepatic adenoma

Dear Editor,

A 28-year-old woman who had been taking an oral contraceptive (OC) for 10 years underwent magnetic resonance imaging (MRI), which showed multiple tumors. The tumors were isoattenuating in the pre-contrast phase, showed homogeneous enhancement in the arterial phase, and were isoattenuating again (with enhancement comparable to that of the liver parenchyma) in the subsequent phases (Figure 1A). The pathology study confirmed the diagnosis of adenoma. The largest tumor, measuring approximately 10 cm, was compressing the inferior vena cava, making the surgical approach difficult, and presented a high risk of intraoperative complications. We opted for arterial embolization, which was performed successfully, and no vascularization was observed on a follow-up computed tomography (CT) scan. Seven months later, the patient returned with complaints of abdominal pain, daily fever, and weight loss. At that time, an MRI scan showed a collection, consistent with abscess, near the site of the adenoma (Figure 1B). Ultrasound-guided percutaneous drainage was performed, and 800 mL of purulent secretion were drained (Figure 1C). After a seven-day course of antibiotic therapy with saline lavage of the abscess, the patient progressed to complete resolution of the condition. A follow-up MRI scan, acquired six months after the percutaneous drainage, confirmed that the treatment had been successful (Figure 1D).

bezoar. When the mass is seen in a colonic loop, a diagnosis of fecaloma should also be considered.

Jackfruit is common in the northern and northeastern regions of Brazil. Its potential to form phytobezoars is due to its large concentration of fibers and other components such as calcium, phosphorous, and iron⁽⁵⁾.

When assessing intestinal obstructions in patients who have undergone bariatric surgery, radiologists should be aware of the possibility of a bezoar as the cause. Preoperative clinical suspicion optimizes the surgical results.

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Hepatocellular adenoma (HCA) is a rare benign tumor of the liver that is commonly seen in women of reproductive age and is associated with the use of $OCs^{(1)}$. The annual incidence of HCA is 3–4 cases/100,000 women who have used OCs for an extended period of time. Approximately 25% of patients with HCA experience bleeding, the risk of which increases in parallel with an increase in tumor diameter. Malignant transformation occurs in up to 4% of all cases of HCA^(2,3). The risk of malignant transformation also increases as tumor diameter increases, and excision is generally recommended for tumors that are still larger than 5 cm in diameter after OC discontinuation⁽⁴⁾.

Transarterial embolization (TAE) is widely used for the treatment of bleeding adenomas and can be performed before elective surgery to reduce intraoperative blood loss. In HCA patients, TAE can reduce the size of large adenomas, multiple adenomas, or adenomas that are in a surgically inaccessible location, in order to reduce symptoms and the risk of bleeding^(5–7). Given that the risk of malignant transformation is directly proportional to the size of the adenoma⁽⁷⁾, TAE can reduce this risk. However, the role of TAE as an elective therapy in HCA is unclear, because it is not known whether it reduces the risk of hemorrhage or malignant transformation of residual HCA, despite reports of a reduction in tumor size⁽⁸⁾.

In patients with HCA, the most common complication of TAE is post-embolization syndrome, followed by transient renal insufficiency and cyst formation⁽⁸⁾. In the case presented here, the patient evolved to late liver abscess after embolization of

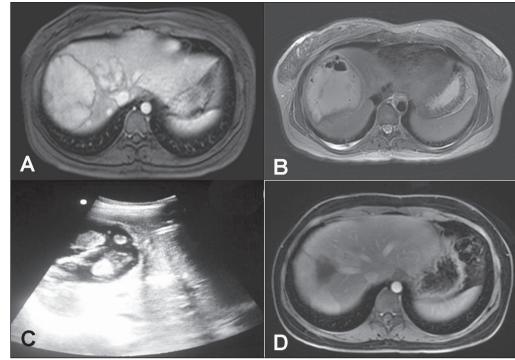


Figure 1. A: Abdominal MRI performed prior to embolization, showing a hypervascular lesion measuring approximately 10 cm, the histological analysis of which showed hepatic adenoma that tested positive for the tumor marker beta-catenin. B: Abdominal MRI scan, acquired at six months after embolization, revealing gaseous contents within the treated lesion. C: Ultrasound-guided percutaneous drainage of the hepatic collection/ abscess. D: Follow-up abdominal MRI scan, acquired at six months after the percutaneous treatment of the henatic abscess.

the adenoma. To our knowledge, there have been no previous reports of this complication. The treatment of pyogenic liver abscess includes intravenous antibiotic therapy and percutaneous drainage guided by ultrasound or CT.

Acute or elective TAE seems to be a safe procedure for the management of HCA. Because of its minimally invasive and parenchyma-preserving properties, together with its ability to reduce the size of tumors located at anatomical sites that make surgery difficult, elective TAE offers a reasonable alternative to surgery.

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Additional value of a dynamic contrast-enhanced study for detection of a small neuroendocrine tumor of the rectum on magnetic resonance imaging

Dear Editor,

Screening colonoscopy revealed a subepithelial lesion in the rectum of a 70-year-old asymptomatic man, a finding that was subsequently confirmed by endoscopic ultrasound (Figure 1A). The patient then underwent magnetic resonance imaging (MRI), performed in accordance with the routine protocol, on which the lesion was not detected. An MRI scan was complemented with a dynamic study, which revealed a 5 mm lesion that showed contrast enhancement in the early phase and no enhancement in the later phases (Figure 1B,C). Subsequently, endoscopic ultrasound

was performed for diagnostic and therapeutic purposes, including resection of the lesion (Figure 1D), the histopathological diagnosis of which was a differentiated neuroendocrine tumor.

Neuroendocrine tumors can occur in various organs, and they account for 1.5% of all gastrointestinal or pancreatic neoplasms⁽¹⁾. In the gastrointestinal tract, the rectum is the second most commonly affected region, accounting for 21-27% of cases⁽²⁾. Although most neuroendocrine tumors are idiopathic, up to 25% are associated with genetic syndromes such as multiple endocrine neoplasia type 1, neurofibromatosis type 1, von Hippel-Lindau disease, and tuberous sclerosis⁽³⁻⁵⁾. They can produce hormones and metabolically active amines, resulting in symptoms⁽⁵⁾. Nonfunctioning neuroendocrine tumors, which are more common, frequently appear as locally advanced disease