The breast tumor was classified as clinical stage IV, with metastasis to the lungs (lymphangitis carcinomatosa identified on CT) and bones, and surgery for the breast lesion was therefore not indicated. Chemotherapy followed by endocrine therapy was the treatment strategy elected. After a year, the cancer was re-staged. A CT scan of the upper abdomen showed parenchymal nodules suggestive of secondary implants in the spleen, which were also seen on ultrasound (Figure 2A). On the basis of an ultrasound-guided percutaneous biopsy, the patient was diagnosed with splenic metastasis of breast carcinoma (Figure 2B), and a new chemotherapy regimen was started exclusively for the splenic progression.

Male breast cancer is rare, accounting for 0.6% of all cases of breast cancer and less than 1% of all carcinomas in men. The average age at diagnosis is 65 years (2). The most common complaint at diagnosis is of a palpable nodule, typically > 2.0 cm (3). Mammography and ultrasound are used in making the diagnosis, following the criteria for malignancy in female breast cancer (2,4–6). The most common histological subtype is invasive ductal carcinoma, which often tests positive for estrogen and progesterone (2).

The treatment of choice is mastectomy and, if necessary, ipsilateral axillary drainage, lymph node involvement being seen in 50–60% of cases (4). The success of chemotherapy and radiotherapy, as well as hormone therapy (tamoxifen being the drug of choice), in the treatment of female breast cancer, allows us to extrapolate that they can also be used in cases of male breast cancer (5).

The metastatic pattern of male breast cancer follows that of female breast cancer in that the bones, lungs, and liver are the most common sites. Splenic metastasis of breast cancer, as shown in this case, is rare in the literature, and the few cases reported have all been in women. Metastases to the spleen are fairly uncommon, can be single or multiple, and often occur in the context of multi-organ metastatic carcinoma, usually without clinical significance, splenectomy being palliative in symptomatic patients. Such metastases are incidental findings on imaging studies for follow-up of the primary tumor (melanoma is the main underlying diagnosis) and are radiologically indistinguishable from primary lesions. The clinical significance of these metastases is not well established in the literature. When occurring in isolation, 60% of splenic metastases are asymptomatic. However, some patients present with fatigue, splenomegaly, or other symptoms. There have been no studies discussing the preferred approach when a single splenic metastasis is identified. The diagnosis can be made by percutaneous biopsy, which has a low (0–2%) complication rate (7).

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Unusual intrathoracic foreign body: tree branch

Dear Editor,

We report the case of a 46-year-old male who was admitted to the emergency room 4 hours after suffering trauma to the left lateral chest wall, which was penetrated by tree branch during a fall from a bicycle. At the time of the examination, the patient was bleeding from the entrance wound and complaining of severe local pain. His vital signs were normal. Computed tomography showed laceration of the left upper lung lobe, with areas of pulmonary contusion and ipsilateral pleural effusion. We also observed a tubular image, with a density of −136 HU, of which the proximal end was in the soft tissues of the chest wall and the distal end was in the lung parenchyma (Figure 1). The patient underwent surgery on the same day, and a piece of tree branch was removed from the chest cavity. A chest tube was inserted, and approximately 1.5 L of blood, mixed with clots, were drained from the pleural space. There was no vascular or mediastinal lesion.

Figure 2. A: Ultrasound showing multiple, hypoechoic splenic nodules, one of which is indicated by the arrow. B: Biopsy demonstrating splenic infiltration by breast carcinoma. Hematoxylin and eosin staining.
Wooden foreign bodies in the pulmonary parenchyma are rare. Such foreign bodies can penetrate the lungs through open wounds or lacerations in the chest wall[1]. When one end of the foreign body is visible on the physical exam, the diagnosis is simple. However, in some cases, the object is not visible externally and the clinical history is unclear. In such cases, the radiological examination is critical to raising the diagnostic suspicion. Unlike foreign bodies composed of metal, bone, glass, or other radiopaque materials[2,3], wooden objects are difficult to identify on radiological examinations. Only approximately 15% of wooden foreign bodies are identified on conventional X-rays[4,5]. Even on computed tomography scans, such foreign bodies can be quite difficult to identify.

The attenuation of a wooden foreign body depends on its porosity and the amount of air and fluid it contains[4,5]. In general, such objects have negative density, due to the presence of air, and dry wood is less dense than is green wood. In addition, different types of wood have different densities[4,5]. In the literature, reported densities range from –24 HU to –656 HU[6]. In our patient, the average density was –136 HU. Therefore, the imaging aspect can erroneously suggest gas collections. The differentiation from gas collections can be made on the basis of the shape of the object and the use of intermediate windows in the computed tomography scan. However, wooden foreign bodies, discovered years after their entry, can undergo mineral deposition and become hyperdense[7]. Such foreign bodies must be detected and removed as soon as possible because, due to their porosity and organic nature, they constitute an excellent culture medium for microorganisms, which can result in abscesses and fistulas[4,7].

In conclusion, identifying a wooden foreign body can be challenging. The radiologist should keep in mind that wood frequently presents negative density and can in some cases be confused with air collections.

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