25–35% in individuals without an ICA, compared with 2–4% in the general population. Less commonly, it may be associated with delayed neuropsychomotor development and agenesis of the corpus callosum, especially in patients with bilateral carotid agenesis[7,8]. In addition, this anomaly has major implications for the planning and execution of endarterectomy and transphenoidal pituitary surgery. In the present case, the patient had no aneurysms or other associated malformations.

We conclude that ICA agenesis is rare and usually asymptomatic. However, careful examination of the vascular signal on magnetic resonance imaging and of carotid canals on CT, in search of stenoses (responsible for common neurological complaints), may lead to the detection of this condition, which, although asymptomatic, can be accompanied by other potentially serious diseases.

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Ruptured endometrioma: main imaging findings

Dear Editor,

A 28-year-old woman presented with a 12-h history of acute pelvic pain. Physical examination revealed signs of peritonitis, and laboratory tests showed mild anemia. The patient underwent transvaginal ultrasound (TVUS) of the pelvis (Figure 1A) and magnetic resonance imaging (MRI) of the pelvis (Figures 1B and 1C). She also underwent laparoscopy, which confirmed the presence of bilateral ovarian endometriosis, with a rupture on the right side (Figure 1D).

The presumptive diagnosis of endometriosis is based on clinical history consistent with the diagnosis and abnormal laboratory tests, including elevation of CA-125, a marker that, although nonspecific, is usually elevated in women with the disease[1]. Despite the important role of imaging examinations, notably TVUS and MRI of the pelvis in the diagnosis and staging of endometriosis, it should be noted that the gold standard for the definitive diagnosis is still laparoscopy[1,2].

The ovaries are among the sites most commonly affected by endometriosis (in 20–40% of cases). Endometriomas are thick-walled cysts containing dark, thick degenerated blood products. In some cases, there can be a fluid-fluid level, representing bleeding of various chronologies, giving them the typical macroscopic appearance of “chocolate cysts”, which can be transposed to imaging exams[3]. They are bilateral in approximately 50% of cases[2,4].
The rupture of an endometrioma is a rare event, with an estimated incidence of less than 3% among women of childbearing age who are known to have endometriomas. This situation occurs more commonly during pregnancy, due to hormonal stimulation of endometrial stromal elements, albeit with larger (≥ 6.0 cm) lesions.

The imaging aspect of endometrioma is that of an ovarian cyst with heterogeneous content, irregular contours, and partial discontinuity, together with hemoperitoneum, which can be seen as heterogeneous fluid content on ultrasound and as a collection with a hyperintense signal in T1-weighted MRI sequences. In an emergency setting, its presentation may mimic other acute gynecological conditions, such as corpus luteum, ectopic gestation, and even spontaneous hemoperitoneum. In addition, the rupture of endometriomas can significantly increase serum CA-125 levels, mimicking ovarian epithelial neoplasms.

However, a history of endometrioma, previous examinations demonstrating endometriomas, or endometriomas accompanied by peritoneal blood content in emergency imaging studies should raise the suspicion of spontaneous rupture.

The importance of the preoperative diagnosis is to support treatment strategies. Although some milder cases can be managed conservatively, there is a tendency toward greater use of early surgical exploration because of long-term undesirable effects of cyst fluid in the peritoneal cavity, such as adhesions, pelvic pain, and infertility. In addition, the presumptive diagnosis of ruptured endometrioma, rather than ovarian neoplasms, facilitates the decision to perform laparoscopic exploration and allows the surgeon to perform the procedure with greater confidence.

**Primary intraosseous meningioma: atypical presentation of a common tumor**

**Dear Editor,**

A 41-year-old woman presented with an approximately one-year history of progressive facial swelling and left-sided visual impairment. A computed tomography (CT) scan of the skull showed a sclerotic, expansile lesion on the lateral/upper wall of the left orbit, narrowing and extending to the optic canal. Magnetic resonance imaging (MRI) showed a lesion with a hypointense signal in T1-weighted and T2-weighted sequences, without significant contrast uptake, accompanied by a slight contrast-enhanced thickening of the subjacent dura mater, which was compressing the left optic nerve. A histopathological study confirmed the suspected diagnosis of intraosseous meningioma.

Recent studies in the radiology literature of Brazil have emphasized the importance of imaging examinations in improving the diagnosis of central nervous system disorders. Meningioma is the most common primary intracranial tumor, bearing age who are known to have endometriomas.

**Figure 1.** A: Axial CT scan, with bone window settings, showing an expansile, osteoblastic lesion, affecting the upper/lateral wall of the left orbit (arrow). B: Noncontrast sagittal T1-weighted MRI sequence, showing a lesion with a hypointense signal (arrow). C: Coronal T2-weighted MRI sequence, also showing the lesion with a hypointense signal (arrow). Also note the compressive effect and displacement of the intraorbital structures, including the optic nerve. D: Contrast-enhanced coronal T1-weighted MRI sequence, showing a lack of significant contrast uptake within the lesion (arrowhead), with only slight uptake in the dura mater subjacent to the tumor (arrow).

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