Letters to the Editor

Uncommon presentation of perforated Meckel’s diverticulum in preterm newborn

Divertículo de Meckel perfurado como causa incomum de pneumoperitônio em recém-nascido pré-termo

Dear Editor,

A male neonate with gestational age of 30 weeks, weighing 940 g at birth, with respiratory failure right after birth, and radiological signs compatible with hyaline membrane disease. At his tenth day of life, the patient presented vomiting and abdominal distention, presenting with radiological signs of pneumoperitonium (Figure 1). Initially, the neonate was submitted to peritoneal drainage, due to the lack of surgical conditions, and at the 19th day, after gaining weight and present with hemodynamically stable conditions, was submitted to exploratory laparotomy. During the surgery, a Meckel’s diverticulum (MD) was found, with jejunal perforation, hepatic blockage and obstruction distal to the blockage due to the development of adherence. Resection of about 6 cm of the jejunal loop including the perforated area was performed, with later termino-terminal anastomosis. The anatomopathological result was subacute diverticulitis with ulcer and severe peridiverticulitis. The neonate presented a favorable evolution and was discharged at his 82nd day of life.

Meckel’s diverticulum represents the most common congenital malformation of the digestive tube, and is asymptomatic in most cases (1–3). Symptomatic cases of MD are rarely found, affecting less than 20% of all pediatric cases (1). Bowel obstruction

Figure 1. A: Chest and abdominal radiography – Image acquired with the patients in supine position, with vertical x-rays, demonstrating hypertransparent abdominal cavity due to accumulation of free air. B: Chest and abdominal radiography – Image acquired with the patient in supine position with horizontal x-rays, demonstrating the free air collection located between the anterior abdominal wall and the bowel loops.
Desmoplastic fibroma with perineural spread: conventional and diffusion-weighted magnetic resonance imaging findings

Fibroma desmoplástico com disseminação perineural: achados nas sequências convencionais de ressonância magnética e na difusão

Dear Editor,

A male, three-year-old child with morphostructural alteration developed over the last year in the region of the mandible at left, presenting with recent onset of pain, with no other associated complaints. Laboratory tests did not demonstrate any alteration and magnetic resonance imaging (MRI) (Figure 1) showed a lesion with predominant iso/hyposignal on T1-weighted image, hypersignal on T2-weighted image with subtle low signal intensity foci, absence of signal loss on susceptibility-weighted sequences and absence of diffusion restriction. After gadolinium injection, exuberant enhancement was observed in addition to perineural dissemination through the third division of the trigeminal nerve. Histopathological analysis revealed spindle cells with positivity for vimentin and SMA, with Ki-67 < 5%. Such findings are compatible with desmoplastic fibromas. The patient was submitted to incomplete surgical excision supplemented with radiotherapy.

Desmoplastic fibroma is an extremely rare, benign bone tumor with aggressive and usually insidious behavior, representing 0.1% of all primary bone tumors [1–5]. The mandible is the most affected site, particularly in its posterior portion, corresponding to 22% of cases [1,2,4], followed by the metaphyseal region of long bones. Rarely, MD perforation may occur as a result from umbilical catheterization by means of an umbilical vein connection with the MD via umbilical cord [6]. In the present case, despite the symptoms of bowel obstruction and abdominal discomfort at palpation, bilious vomiting was not observed. Furthermore, the histopathological analysis of the surgical specimen ruled out the hypothesis of Hirschsprung’s disease.

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Figure 1. A: Sagittal, T1-weighted image showing lesion with hyposignal affecting the mandible (arrowhead). B: Coronal, T2-weighted sequence showing heterogeneus lesion with subtle hypersignal intermingled with foci of low signal intensity (arrowhead). C: Axial, functional diffusion-weighted sequence does not demonstrate diffusion restriction (arrow). D: Contrast-enhanced coronal, T1-weighted sequence with fat suppression demonstrating exuberant gadolinium enhancement and noticeable perineural dissemination in the third division of the trigeminal nerve (arrowhead).