Clinical Case Reports



CLINICAL IMAGE

Acute fatty liver of pregnancy simulating liver tumor

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A 26-year-old primiparous patient was admitted at 37weeks' gestation for abdominal pain, nausea, and vomiting. Clinical examination was normal, and there was no hypertension or proteinuria. Body mass index prior to pregnancy was normal. Laboratory tests revealed increased serum aminotransferase (AST 206 IU/L, ALT 152 IU/L), hypoglycemia (2.20 mmol/L), hyperuricemia (445 µmol/ L), thrombocytopenia (146 G/L), and leukocytosis (19.8 G/L). LDH was normal (193 UI/L). Ultrasonography (US) of the liver showed one hyperechogenic nodule suggesting a tumor. The patient gave birth spontaneously to a healthy girl 1 day after admission. Computed tomography (CT) after delivery showed a well-limited zone corresponding to the US hepatic nodule (Fig. 1). The values of liver density were lower than the spleen suggesting fatty infiltration (Fig. 2). Symptoms and biological abnormalities improved spontaneously, and CT performed 7 days after delivery showed the improvement of lesions (Fig. 3). No other cause of liver disease was found, and a diagnosis of acute fatty liver of pregnancy (AFLP) was made based

Clinicians must have a high index of suspicion for AFLP. Indeed, early diagnosis and prompt delivery have improved maternal and fetal prognosis of this rare liver

on clinical, biological, and radiological findings [1].

Key Clinical Message

Acute fatty liver of pregnancy (AFLP) is a rare liver disease unique to pregnancy that can lead to acute liver failure. Clinicians must have a high index of suspicion for AFLP because only early diagnosis and prompt delivery improve maternal and fetal prognosis.

Keywords

Computed tomography, nodule, ultrasonography.

disease unique to pregnancy [2]. Moreover, AFLP may be associated with a genetic deficiency of mitochondrial beta-oxidation of fatty acids, and screening for such deficiency is recommended for mother and baby [2]. This unusual case demonstrated that AFLP, as other causes of steatosis, may mimic liver tumor at imaging.



Figure 1. CT after delivery : showed a well-limited zone corresponding to the US hepatic nodule.

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Figure 2. CT after delivery : the values of liver density were lower than the spleen suggesting fatty infiltration..



Figure 3. CT 7 days after delivery : showed improvement of lesions.

Authorship

BA and YB: drafted the article. BS: participated in critical review and revision of the article, gave the final approval of the article.

Conflict of Interest

The authors have no conflict of interest to declare.

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