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The course and delivery of a pregnancy in a patient with autoimmune hepatitis complicated by cirrhosis of the liver

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We present a case of 28 year old female patient who became pregnant during the qualification for liver transplantation due to decompensated cirrhosis of the liver caused by autoimmune hepatitis (AIH). She was diagnosed at the age of 22 on the basis of the clinical symptoms, serological tests (hypergammaglobulinemia, positive ANA) and microscopic evaluation of the liver (piecemeal necrosis). During this period, there were no indications for liver transplantation. The degree of functional reserve according to the Child-Pugh score was rated as high (class A). The patient was also diagnosed with portal hypertension, which was manifested by splenomegaly and advanced varices of the esophagus and fundus of the stomach. For six years, this patient was first treated with Encorton alone and then with Azathioprine. During this time, she underwent multiple sclerotherapy treatments and endoscopic varices ligation of the esophagus and fundus of the stomach. Six years after being diagnosed with AIH, because of decompensation of the cirrhosis of the liver, manifesting with portal hypertension and symptoms of encephalopathy, indications for liver transplantation were met. During the qualification process, the patient became pregnant. Therefore, the current treatment was changed, Azathioprine was discontinued and the dose of Encorton was increased.

The patient was admitted to the hospital in the 21st week of pregnancy due to vaginal bleeding. During the ultrasound examination, the membranes were detached from the uterus above the internal os of the cervix and the hyperechogenic focus was found, measuring 6.8 cm in diameter that could correspond to a hematoma. Lutein was administered at a dose of 2 × 100 vaginally and Aspargin 4 × 1 tablet orally. The abdominal ultrasound confirmed splenomegaly, spleen size in the long axis was approximately 30 cm, it reached with, its lower pole to the bottom of the left hip, and the liver was small with echo structure corresponding to cirrhosis. The ultrasound examination of the fetus confirmed its normal development, consistent with gestational age. Metypred was used at a dose of 24 mg/day for treatment of primary disease. Laboratory tests revealed pancytopenia (Er-2.65 × 10^6 /mL, Leu-2.3 × 10^3 /mL, PLT-30 × 10^3 /mL, HCT-0.27L/L) hyperbilirubinemia (3.77 mg/dL), elevated bile acid 68.6 micromol/L and the normal level of transaminases and prolonged prothrombin time (24.4 s) and INR (1.97), decreased prothrombin index of 42%. During the hospitalization, the patient reported haemoptysis and epistaxis.

In the 27th week of pregnancy gestational diabetes was diagnosed, probably due to steroid therapy, and intensive insulin therapy was initiated, resulting in normal glycemic control. Gastroscopy was performed, during which esophageal varices were found in the OMED I stage, without the need for treatment. Due to the signs of preterm labor, betamethasone was used to stimulate fetal lung development.

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AlH, especially in a setting of decompensation of the liver function, is a serious complication of pregnancy with a possible catastrophic and sudden consequences, both for the mother and the fetus anytime during pregnancy, and should be managed by a multidisciplinary team, comprising of obstetricians, gastroenterologists, surgeons, anesthe-siologists and neonatologists.