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Subtotal Pancreatectomy for Persistent Hyperinsulinemia Hypoglycemia in Neonate (A Case Report)

Abstract

Persistent hyperinsulinemic hypoglycemia of infancy (PHHI) is rare condition of inappropriate and excessive insulin secretion from & beta; cell hyperplasia of pancreas. The incidence in general population is 1 : 50,000 live birth. The refractory hypoglycemia may produce brain damage unless effective treatment at an early stage. The mainstay of medical treatment includes increasing carbohydrate intake feeds or intravenous glucose at a rate above 15 mg/kg bw/minute and octreotide. If these measures fail surgical esection should be considered. We reported the difficulty of management a case with diagnosis of PHHI. NS, 12 days of age female, 200 gram from Sidoarjo was referred to Dr Soetomo Hospital with diagnosis of refractory hypoglycemia. She suffered from eizures, 3 times of apnea, and several hypoglycemia episodes. She had received some medication includes several boluses of 40% of extrose solution, 10% of dextrose infusion, Dexamethazone, and antibiotic. She was born spontaneously with the body weight of 000 gram, and head circumference of 33 cm. There was no history of diabetic mother. In our hospital, we treated her with high rate of glucose infusion about 15 mg/kgbw/minute, frequent feeding (via oral and nasogastric tube). Up to day 6 of spitalization the episodes of hypoglycemia still persisted, the treatment added with octreotide 8 μg/kgbw/day in divided doses. The hypoglycemia episodes disappeared after that. She was performed of Abdominal USG and CT Scan that indicated of tumor of corpus pancreas. The aboratory examination revealed: very high result of C-peptide (3.3 ng/l) with no keton body. She was performed subtotal ancreatectomy 95% one month later, because of social judgement. And the histological examination revealed of diffuse pancreatic eta cell hyperplasia. The several hyperglycemia episodes were occurred until 4 days after operation, and insulin was given if the lood glucose & gt; 110 mg/dl. The baby was discharge d on day 66 of hospitalization (78 day of age) with normal blood glucose evel, and head circumference of 34 cm (microcephali). On the follow-up examination (7 months of age), she was in a good condition with no symptom of hypo or hyperglycemia, and normal blood glucose level. The head circumference was 42 cm.

Keyword : hypoglycemia, pancreatectomy, ,

Daftar Pustaka :