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Primary Liver Neuroendocrine Tumor Arising At Young Age : A Rare Case Report And Literature Review

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Background : Neuroendocrine tumors (NETs) are low-grade malignancies arising from neuroendocrine cells. Primary hepatic neuroendocrine tumors (PHNETs) are extremely rare and difficult to differentiate PHNETs from other liver tumors, such as hepatocellular carcinoma (HCC) or cholangiocarcinoma.

Methods : A 22-year-old male presented with a complaint of intermittent abdominal pain. Preoperative imaging study revealed a 5.1cm heterogeneously enhancing mass in S6 of liver, suggesting HCC. laparoscopic right hepatectomy was performed. Well-demarcated brown solid mass was found.

Results : Pathology report was neuroendocrine tumor of the liver. To exclude the extrahepatic lesions, FDG-PET/CT scan were performed postoperatively and no lesions were found.

Conclusions : We report a rare case of primary hepatic neuroendocrine tumor developed at young age. Primary hepatic neuroendocrine tumor is difficult to diagnose because of non-specific clinical findings, and can't distinguished from other liver tumor, such as HCC on imaging study. It is diagnosed by immunohistochemical analysis after surgical resection.

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