

E27

**Double primary hepatic cancer
(Sarcomatoid carcinoma and Hepatocellular carcinoma)
: A case report**

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Primary sarcomatoid carcinoma (SC) of liver is very rare and aggressive tumor showing a rapid growth and high recurrence rate after resection. There have been no reports to date of hepatic SC simultaneously occurring with hepatocellular carcinoma (HCC). Herein we describe a 54-year-old man with liver cirrhosis due to Hepatitis B virus infection and alcoholic hepatitis. The abdominal CT and MRI showed 2 distinct hepatic mass with background of cirrhotic liver and esophageal varices. Under a clinical diagnosis of 2 HCC, a right lobectomy was carried out. Grossly, there were 2 distinct lesion, the larger one of segment 5~6 was 2.5*2.0cm-sized, gray to white, and well-demarcated mass, and the other was 1.3*1.0cm-sized, gray to whitish nodule. Microscopic analysis revealed that the larger one was a SC, which was immunoreactive for CK and vimentin and negative for HSA. The other was located in S8 and histologically showed hepatocellular carcinoma, which was positive for HSA and CK and negative for HSA, VMT, CK7 and CK19. There was no transition or intermingling lesion between the two tumors. To the best of our knowledge, the present case is first case of double primary liver cancer composed of SC and HCC.

Running title: Sarcomatoid carcinoma of Liver

Key Words: Sarcomatoid carcinoma, Hepatocellular carcinoma, Liver