



Case Report

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Primary Squamous Cell Carcinoma of the Liver

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Abstract

Primary squamous cell carcinoma (SCC) of the liver is a very rare diagnosis with limited reported cases in the current literature. The prognosis is extremely poor with few patients surviving after 12 months, irrespective of treatment. Here, we report a case of hepatic primary squamous cell carcinoma.

Keywords

Liver cancer; Oncology; Cancer; Hepatic cancer; Rare malignancy; Rare cancer; Primary squamous cell carcinoma of the liver

Introduction

A 60-year old woman presented to our hospital with ongoing abdominal pain and anorexia. She was evaluated one month prior at an outside hospital where she was diagnosed with poorly differentiated SCC by liver biopsy. A palpable, tender abdominal mass in her right upper quadrant was noted on exam. Her liver function tests comprised of an alkaline phosphatase (ALP) 188 u/L (upper limit of normal range (ULN) 121 u/L), aspartate transferase (AST) 71 u/L (ULN 34 u/L), and alanine transferase (ALT) 86 u/L (ULN 60 u/L). Total bilirubin was within normal range. Tumor markers revealed an elevated Carbohydrate Antigen (CA) 19-9 of 56.7 U/mL (ULN 3 U/mL) and CA-125 of 77.7 U/mL (ULN 35 U/mL). Alpha-Fetoprotein (AFP), Carcinoembryonic Antigen (CEA) and CA 15-3 were all within normal limits. Computed tomography (CT) scan of her abdomen revealed a 17 cm necrotic liver mass with mild intrahepatic biliary dilatation and a 1.4 cm left periaortic lymph node (Figure 1). Repeat liver biopsy revealed large areas of invasive SCC in solid nests and interconnecting cores with areas of necrosis (Figure 2). A metastatic cancer workup was negative for a primary tumor outside of the liver.

She underwent a right hepatectomy with resection of the common hepatic and common bile ducts as well as porta hepatis lymph nodes. The distal stomach and duodenum, a segment of the transverse colon, and a portion of the abdominal wall adjacent to the mass were also resected (Figure 3, Figure 4). Pathologic evaluation revealed moderately differentiated SCC of the liver with direct extension into the abdominal wall, stomach and colon. There was evidence of lymphovascular invasion as one of five resected peri-hepatic lymph nodes were positive for metastatic malignancy. All resected surgical margins were free of malignancy. One month after hospital discharge,

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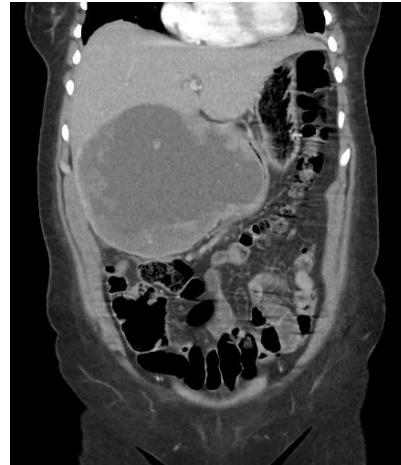


Figure 1: 17 cm × 14 cm × 14 cm largely necrotic mass in the liver with mild intrahepatic biliary dilatation and 1.4 x 1.3 cm left periaortic lymph node.

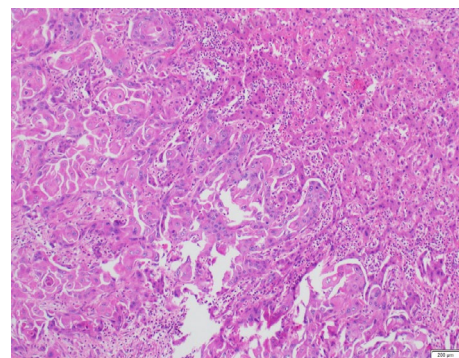


Figure 2: Medium power showing the interface of squamous cell carcinoma and non-neoplastic liver parenchyma.



Figure 3: Intraoperative photo during hepatic resection demonstrating resection of a portion of the anterior abdominal wall (instrument) and the stomach (in the operator's left hand).



Figure 4: Gross specimen of tumor. Cut surface revealing its cavitated, necrotic debris. The tumor is white/gray and indurated.

a PET scan revealed multifocal hypermetabolic metastatic liver lesions with hypermetabolic peritoneal metastases and ascites. She was started on palliative chemotherapy with carboplatin and paclitaxel but unfortunately passed away six months after her initial diagnosis.

Discussion

The pathogenesis of primary SCC of the liver is not completely understood. It is postulated that hepatic cysts undergo a metaplasia-dysplasia transformation progressing from benign to malignant [1,2]. It is also suggested that inflammation in the biliary tract, possibly from stones or infection, may be the inciting step in the development of primary SCC [2]. Additional associations with liver cirrhosis and Caroli's disease (a rare congenital liver disorder characterized by cystic dilation of intrahepatic bile ducts and renal cysts) have been proposed [3,4]. This patient did not have known cirrhosis, Caroli's

disease, biliary stones or hepatic cysts.

In patients with localized disease, primary management should be aimed towards margin-negative surgical resection of the tumor. Patients who undergo surgical resection have a longer overall survival than those who do not (17 vs. 5 months) [1]. Due to the rare nature of this condition, there are no standardized guidelines to direct adjuvant therapy. The presence of nodal metastatic disease may be considered to be an indicator of higher risk for the development of systemic metastasis, and thus a platinum-based chemotherapy regimen was started. Other treatment modalities that have been reported for patients with SCC of the liver include systemic chemotherapy with 5-fluorouracil (FU), hepatic artery infusion chemotherapy, and radiation therapy [1,5].

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