

# An Autopsy Case of Undifferentiated Hepatocellular Carcinoma with a Fever Presenting as Paraneoplastic Syndrome

Sho FUKUDA<sup>1)</sup>, Satoshi NIMURA<sup>2)</sup>, Ryo YAMAUCHI<sup>1)</sup>,  
Masayo YOSHIMURA<sup>3)</sup>, Motoko KAWASHIMA<sup>1)</sup>, Hiromi FUKUDA<sup>1)</sup>,  
Kazuhide TAKATA<sup>1)</sup>, Takashi TANAKA<sup>1)</sup>, Daisuke MORIHARA<sup>1)</sup>,  
Keiji YOKOYAMA<sup>1)</sup>, Yasuaki TAKEYAMA<sup>1)</sup>, Satoshi SHAKADO<sup>1)</sup>,  
Kazuki NABESHIMA<sup>3)</sup>, Shotaro SAKISAKA<sup>4)</sup>, Fumihito HIRAI<sup>1)</sup>

<sup>1)</sup> *Department of Gastroenterology and Medicine, Faculty of Medicine, Fukuoka University*

<sup>2)</sup> *Department of Pathology, Faculty of Medicine, Fukuoka University Chikushi Hospital*

<sup>3)</sup> *Department of Pathology, Faculty of Medicine, Fukuoka University*

<sup>4)</sup> *Institute of Medical Sciences, Faculty of Medicine, Fukuoka University of Gastroenterology and Medicine*

## Abstract

A 59-year-old man was admitted to our hospital due to liver dysfunction and a high fever. On abdominal computed tomography, multiple hypodense nodules were found to be distributed diffusely in the liver, of which multiple liver abscesses were highly suspected. Despite administering appropriate treatment, disseminated intravascular coagulation with multiple organ failure occurred, and the patient died on the third day. An autopsy was performed, and tumor involvement of the liver and other organs was observed. After a histological examination and immunohistochemical studies, undifferentiated hepatocellular carcinoma was diagnosed. Undifferentiated carcinoma of the liver is often accompanied by a tumor fever as a paraneoplastic syndrome. Although there are no specific imaging findings, the tumor is often hypovascular, making it difficult to differentiate from a liver abscess. Despite being an extremely rare disease, undifferentiated carcinoma of the liver is of clinical importance, since it has a poor prognosis and may present a critical clinical course. As a result, febrile patients with hepatic masses should be treated with caution in consideration of the possibility of such diseases.

**Key words: undifferentiated carcinoma, tumor fever, paraneoplastic syndrome, liver abscess**