Giant liver cyst caused by tuberculosis infection and masquerading as malignant peritonitis

Liver involvement in tuberculosis infection is rare, and the radiological findings have previously been interpreted as multiple liver tumors, hemangioma, abscess, or cirrhosis [1-3]. Conversely, hepatic cyst is a common benign liver tumor that is usually easy to diagnose as a simple hepatic cyst. Despite advances in imaging techniques, differentiating complicated hepatic cysts from other tumors, including malignancies, sometimes remains challenging. We describe a rare case of a giant liver cyst caused by tuberculosis and masquerading as malignant peritonitis.

A 60-year-old man was referred to our hospital with a 3-week history of persistent postprandial nausea. Computed tomography showed a wall-enhanced cystic lesion in the left lobe of the liver, measuring 200 mm in maximum diameter (Fig. 1). Magnetic resonance imaging showed a hyperintense multiloculated cyst (Fig. 2). On endoscopic ultrasonography, the cyst had multilocular septa (Fig. 3). Because the patient remained symptomatic, and DWI suggested the possibility of malignancy, we decided that surgery should be performed.

Laparotomy revealed many white nodules in the abdominal cavity, suggesting malignant peritonitis (Fig. 4). However, these nodules and the cystic wall included gran-
uloma cells as diagnosed by histology during intraoperative rapid diagnosis; these results suggested tuberculosis (Fig. 5). Positive culture results were subsequently obtained for tubercle bacillus from ascites fluid and blood samples. The cyst was surgically removed, and the patient underwent antituberculosis treatment (isoniazid, rifampicin, pyridoxal phosphate hydrate) for 6 months postoperatively. This case may represent the first report of a giant complicated cyst caused by tubercular involvement of the liver. While various diagnostic imaging modalities have been developed, the possibility of giant liver cysts caused by tuberculosis should be considered in order to prevent misdiagnosis.

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Fig. 5 Histologically, nodules and the cystic wall included granuloma cells.