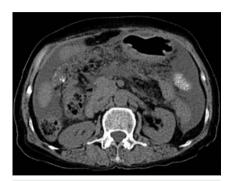
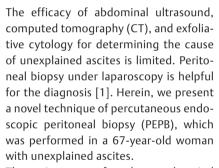
E-Videos

Percutaneous endoscopic peritoneal biopsy for a patient with unexplained ascites



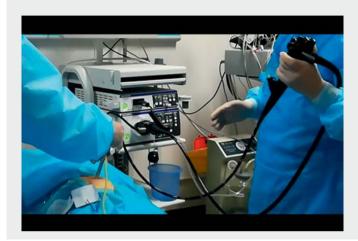


▶ Fig. 1 Computed tomography image showing an abdominal effusion, with blurring of the abdominal fat space.



The patient was referred to our hospital with ascites for 2 months. She had been diagnosed with tuberculous peritonitis in another hospital, but antituberculosis treatment had failed to control her ascites. She reported no other medical history. Physical examination revealed ascites, without obvious tenderness or rebound pain. Laboratory tests showed decreased albumin (37.5 g/L), and elevated ESR (72 mm/h) and CA125 (457.8 U/mL). Tests for ascites revealed it to be a transudate, and there were no tumor cells present. A computed tomography scan showed an abdominal and pelvic effusion, with blurring of the abdominal fat space (▶ Fig. 1). To determine the cause of the ascites, we performed PEPB for her in our endoscopy room (► Video 1).

A standard upper gastrointestinal endoscope (GIF-Q260, Olympus) and laparoscopic instruments (**> Fig. 2**) were used.





▶ Video 1 Percutaneous endoscopic peritoneal biopsy is performed for a patient with unexplained ascites.



▶ Fig. 2 Photograph of the instruments used during percutaneous endoscopic peritoneal biopsy, including hemostatic forceps, trocars, pneumoperitoneum needle, surgical scalpel, and forceps.

The whole abdominal cavity was carefully checked and yellow ascites was sucked out by the endoscope. Diffuse yellowish nodules were found in the peritoneum (**> Fig. 3**). Biopsy of the nodules was performed. Finally, the gas in the abdomen was aspirated by endoscopy, and the incision was sutured after pulling out the laparoscopic instruments. Pathology revealed serous adenocarcinoma from the

ovary, confirming a diagnosis of ovarian cancer with abdominal metastasis.

The patient was kept fasting for 24 hours and prophylactic antibiotics were prescribed for 3 days. She reported no obvious discomfort. Because the patient was in poor condition and could not tolerate radical surgery, chemotherapy was prescribed, after which her ascites was controlled.



► Fig. 3 View of the peritoneum through the endoscope showing diffuse yellowish peritoneal nodules.

Our experience demonstrates that PEPB can play a positive role in the diagnosis of unexplained ascites. Further studies are needed to assess this technique.

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Competing interests

The authors declare that they have no conflict of interest.

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