Endoscopic ultrasound (EUS)-guided fine needle aspiration (FNA) of the right adrenal gland

There are few reported series of endoscopic ultrasound-guided fine needle aspiration (EUS-FNA) of the right adrenal gland, probably because sampling of this gland at EUS is technically more difficult, given its retrocaval location and long endoscope position [1–4]. Here, we describe two successful cases of EUS-FNA of the right adrenal gland without any immediate or delayed complications. Prior to EUS-FNA, pheochromocytoma was ruled out in both cases. Patient 1 was a 77-year-old man who was found to have a 3-cm right lung mass and a 6-cm mass in the right adrenal gland on computed tomography (CT)/positron emission tomography (PET) (Fig. 1). Bronchoscopy was nondiagnostic. Due to concern for metastases, the patient was referred for EUS-FNA. Linear endoscope showed a hypoechoic, centrally cystic 6-cm mass in the right adrenal gland, located between the inferior vena cava and the liver. Six FNA passes were made from the duodenal sweep with a 22-gauge needle (Fig. 2 and Fig. 3). Cytopathology was consistent with papillary-type pulmonary adenocarcinoma and palliative chemotherapy is underway. Patient 2 was a 44-year-old woman with metastatic intraductal breast carcinoma (status post mastectomy and chemotherapy) who was found to have an enlarging right adrenal gland mass on CT, which was done for suspected metastatic disease (Fig. 4). From the duodenal sweep station, a 3.4 cm × 2.7 cm right adrenal gland mass was visualized (Fig. 5). Four FNA passes were made with a 25-gauge needle. Cytopathology was consistent with the patient’s previous breast carcinoma, and palliative radiation and chemotherapy are underway. Despite being technically challenging, EUS-FNA of the right adrenal gland is feasible and safe. The low complication rate is possibly because no organ except the wall of the stomach/duodenum is traversed, and because of the ability to gain tissue diagnosis with a smaller needle (22, 25 gauge) and use of real-time Doppler guidance. Even though a case of left adrenal hemorrhage (post EUS-FNA) has been reported [5], overall, EUS-FNA of the adrenal gland is a safe procedure with no major serious complications reported to date.

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Competing interests: None

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Fig. 4 Patient 2: computed tomography (CT) scan showing right adrenal gland mass.

Fig. 5 Patient 2: right adrenal gland mass prior to fine needle aspiration (FNA).