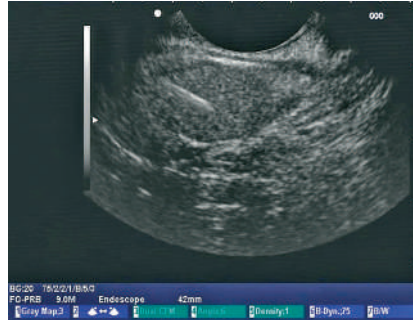


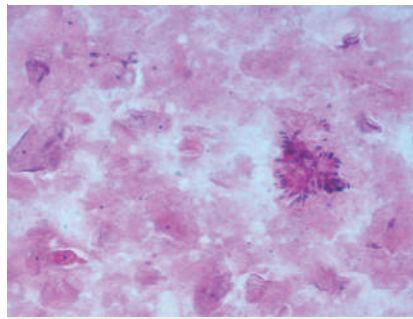
## Complication after endoscopic ultrasound-guided fine-needle aspiration (EUS-FNA) of rectal lesion

A 50-year-old woman was referred to undergo an endoscopic ultrasound-guided fine-needle aspiration (EUS-FNA) of a lesion in the posterior region of the rectum. Informed consent was obtained. EUS, performed with a linear probe (3830UT, Pentax, Hamburg), confirmed a hypoechoic lesion with well-defined margins at 10 cm from the anal sphincter, between the posterior region of the rectum and sacrum (33 mm). Prophylactic antibiotics were administered (ampicillin 2 g; gentamicin 80 mg intravenously [IV]). Conscious sedation was initiated with midazolam, 2 mg IV. EUS-FNA used a 25 G ultrasound needle (Wilson-Cook Medical Inc., USA) (► **Figure 1**). No complications were encountered. Cytological examination of the lesion revealed amorphous granular material, numerous squamous cells without atypical features, rare stromal cells, and few normal glandular aggregates; no malignant cells were found (► **Figure 2**). Five days following the procedure, the patient complained of pain in the posterior region of the rectum, and experienced fever and spontaneous cutaneous drainage. EUS showed the lesion to be hypoechoic, with anechoic areas and undefined margins, compatible with pelvic abscess or hematic extravasation after EUS-FNA. The patient was hospitalized and underwent clinical reevaluation. Magnetic resonance imaging revealed features in the presacral-coccyx region consistent with an abscess surrounded by granular tissue. The patient was discharged in good clinical condition 10 days later.

EUS-FNA has been shown to be a feasible and safe technique to obtain cytological specimens of submucosal, extrinsic gastrointestinal, pancreatic lesion masses, or pathologic lymph nodes, as well as cystic structures [1–3]; the risk of bacteremia is low [4–5]. In this clinical case, we used EUS-FNA to better characterize the lesion; the reported lesion did not show cyst features and therefore the risk asso-



**Figure 1** Endoscopic ultrasound-guided fine-needle aspiration of a rectal lesion.



**Figure 2** Cytological examination: EE 200 ×

ciated with EUS-FNA, as for solid lesions, was negligible. In this case, as in all our cases of transrectal biopsies, prophylaxis with antibiotics was administered. The complication observed after EUS-FNA could be limited by administering antibiotics in the days following the procedure, even though there are no published data on the usefulness of pharmacologic prophylaxis [4].

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