Peutz–Jeghers syndrome (PJS) is a rare, autosomal dominant condition that is characterized by hamartomatous polyps in the gastrointestinal tract and mucocutaneous melanin pigmentation [1, 2]. Confocal laser endomicroscopy (CLE) is rapidly emerging as a valuable tool for gastrointestinal endoscopic imaging, enabling the endoscopist to obtain an “optical biopsy” of the gastrointestinal mucosa during the endoscopic procedure [3–5].

Here, we present the case of a patient with genetically confirmed PJS who was referred for surveillance endoscopy. Esophagogastrroduodenoscopy revealed a large, polypoid mass of about 20 mm in diameter located in the gastric fundus (Fig. 1a). Pit pattern analysis using narrow-band imaging (Olympus, Tokyo, Japan) revealed large roundish and tubular pits (Kudo 3 L). After administration of 3 mL intravenous fluorescein 10 % (Alcon Laboratories, Texas, USA), CLE (EG-3870 CIK, Pentax, Tokyo, Japan) was performed. Endoscopic histology revealed large, irregular cells with increased optical density and fluorescein leakage (Fig. 1b). According to these changes the diagnosis of high-grade intraepithelial neoplasia was made. Corresponding histopathological analysis confirmed the presence of low-grade intraepithelial neoplasia and a focal high-grade intraepithelial neoplasia as well (Fig. 1c).

Colonoscopy (Pentax EC-3870 CIFK, Tokyo, Japan) showed seven polyps ranging from 2 mm to 15 mm in diameter (Fig. 2a). CLE of the polyps showed disorganization of glands, occurrence of different cell types, and the presence of muscle fibers. Histopathological examination showed an overall villous architecture and markedly interdigitating smooth muscle bundles of varying thickness, which arose from the muscularis mucosae.

Competing interests: None

Endoscopy_UCTN_Code_CCL_1AD_2AC

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References


Bibliography

Endoscopy 2010; 42: E139–E140
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

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