

Title:

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DOI: 10.17235/reed.2019.6299/2019 Link: <u>PubMed (Epub ahead of print)</u>

Please cite this article as:

Villar Lucas Carmen, Hernando Martín Mercedes, Álvarez-Cuenllas Begoña. Signet ring cell carcinoma in a juvenile polyp. Rev Esp Enferm Dig 2019. doi: 10.17235/reed.2019.6299/2019.



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CC 6299 inglés

Case report: signet ring cell carcinoma in a juvenile polyp

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Key words: Colorrectal cancer. Signet cell. Juvenile polyp.

Dear Editor,

Juvenile polyps are hamartomatous lesions, usually unique, which appear at an early age. They

are usually located in the rectosigmoid junction and are not thought to imply a higher risk of

colorectal cancer. Here we report a case of signet ring cell (SRC) carcinoma in this type of lesion.

Case report

A 54-year-old male underwent a colonoscopy after a positive fecal occult blood test (FOBT)

performed during the colorectal cancer screening program. A 1-cm peduncultated (stalked)

polyp was found in the sigmoid colon, with an eroded surface and an aberrant pit pattern (Kudo

type IV) that was en-block resected. The histologic examination showed a high degree SRC

carcinoma in the juvenile polyp that penetrated the lamina propia, preserving the resection

margin with a tumor-margin distance of 4 mm, without lymphatic or venous penetration. The

case was reported to the multidisciplinary committee and surgical treatment was decided upon

after other approaches using gastroscopy and a thoracoabdominal computed tomography (CT)

scan were discarded. A laparoscopic sigmoidectomy was performed, with no signs of residual

tumor, neither in the surgical specimen nor in the seven resected lymph nodes.

Discussion



Signet ring cell carcinoma is a histologic subtype distinguished by the presence of more than 50% of tumor cells, with prominent intracytoplasmic mucin. It is most frequently located in the stomach and represents between 0.1 and 2.4% of primary colorectal cancer. It is an aggressive tumor that appears at a young age and is associated with hereditary non-polyposis colorectal cancer. Its pathogenesis is still unknown and some reported cases of the adenoma-adenocarcinoma sequence and other hypothesis point to an origin of the enterochromaffin cells.

Although isolated juvenile polyps in the colon are considered as benign and do not require follow-up, there are some reported cases that progress to colorectal cancer, as in the case reported here.

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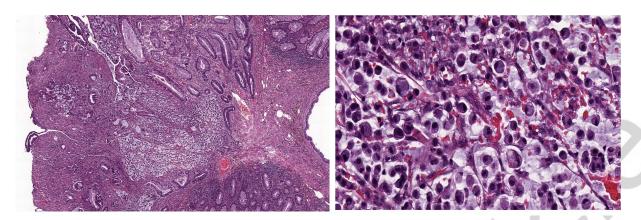


Fig. 1. A. Pathology, hematoxilin-eosin 40x: polypoid lesion with dilated crypts full of mucin and neutrophils. An area with dysplastic glands and single cells surrounded by mucin can be appreciated. B. Pathology, hematoxilin-eosin 400x: signet-ring cells, which have an excentric nucleus and prominent intracytoplasmic mucin.