



## Review article

Rare Tumors of the Rectum. Narrative Review<sup>☆</sup>José Errasti Alustiza,<sup>a,\*</sup> Eloy Espín Basany,<sup>b</sup> Ángel Reina Duarte<sup>c</sup><sup>a</sup>Unidad de Coloproctología, Servicio de Cirugía General, Hospital Universitario de Álava, Universidad del País Vasco, Vitoria-Gasteiz, Spain<sup>b</sup>Unidad de Coloproctología, Servicio de Cirugía General, Hospital Universitario Valle de Hebron, Universidad Autónoma de Barcelona, Barcelona, Spain<sup>c</sup>Unidad de Cirugía Colorrectal, Complejo Hospitalario Torrecárdenas, Almería, Spain

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## A B S T R A C T

Most rectal neoplasms are adenocarcinomas, but there is a small percentage of tumors which are of other histological cell lines such as neuroendocrine tumors, sarcomas, lymphomas, and squamous cell carcinomas, which have special characteristics and different treatments. We have reviewed these rare tumors of the rectum from a clinical and surgical point of view.

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## Neoplasias de recto poco frecuentes. Revisión de conjunto

## R E S U M E N

La mayoría de los cánceres de recto son adenocarcinomas, pero existe un pequeño porcentaje de tumores de otras estirpes histológicas, como neoplasias neuroendocrinas, sarcomas, linfomas y carcinomas de células escamosas, que tienen unas características y tratamientos diferentes. Hemos efectuado una revisión de estos raros tumores del recto desde un punto de vista clínico y quirúrgico.

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## Palabras clave:

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Revisión de la literatura

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## Introduction

Rectal cancer is typically adenocarcinoma. Nonetheless, there are other types of tumors that are much less common, such as neuroendocrine neoplasms, lymphomas, sarcomas, and squamous-cell carcinomas, which can also be located in the rectum.<sup>1-4</sup> The incidence of each of these tumors is difficult to calculate. According to the data from 2005 to 2009 from the National Cancer Institute's Surveillance Epidemiology and End Results (SEER),<sup>5</sup> out of 183 000 colorectal cancers (not including lymphomas), 94.3% were adenocarcinomas, 1.7% other carcinomas, 3.3% carcinoid tumors, 0.5% epidermoid carcinomas, 0.1% sarcomas, and 0.1% other types.

All these tumors present very different characteristics from adenocarcinomas, which also makes their treatment and prognosis very different (Table 1). In addition, there have been recent modifications in the diagnosis and treatment of some of the types. This all causes doubt and controversy in their clinical management, and it is recommended that they be treated by a multidisciplinary team including surgeons, oncologists, pathologists, and radiologists.<sup>6-8</sup>

The objective of this article is to review the clinical and surgical management of these uncommon rectal neoplasms. We used PubMed to review the literature from 1997 to 2012 using the key words related to a colorectal location stated at the beginning of this article.

## Neuroendocrine Neoplasms

Neuroendocrine neoplasms are epithelial and present neuroendocrine differentiation.<sup>9</sup> They can be located in different organs.

They are classified<sup>10,11</sup> by their degree of differentiation (well or poorly differentiated) and their histologic grade (G1, G2

and G3), based on the number of mitoses and the Ki67 index.<sup>9,12-14</sup> Three different groups are defined: neuroendocrine tumors (NET), neuroendocrine carcinoma (NEC), and mixed adenoneuroendocrine carcinoma (MANEC).<sup>7,12</sup>

### Neuroendocrine Tumors

NET are well-differentiated neuroendocrine neoplasms made up of tumor cells that express neuroendocrine markers (chromogranin A, synaptophysin) (Fig. 1) and hormones.<sup>12</sup> Cellular atypia and proliferative activity are low. By definition, they are grade G1 or G2 tumors. This category includes lesions that were previously called "carcinoid tumors", a denomination that is now criticized and is no longer included in the gastrointestinal NET classifications, but is still widely used. The rectal location represents 18% of all NET and 27% of all digestive tract tumors.<sup>12,15</sup>

The annual incidence of rectal NET, according to the SEER,<sup>5</sup> is 0.86 per 100 000, which has experienced a large increase in recent decades.<sup>7</sup> The incidence is higher in Asians,<sup>12</sup> and mean age is 56.<sup>16</sup>

NET usually present as small polypoid lesions or submucosal nodules.<sup>4</sup> 45% measure 10 mm or less, while only 17% measure more than 20 mm.<sup>17</sup> These tumors are frequently asymptomatic<sup>12,18</sup> or accompanied by mild symptoms such as bleeding, tenesmus or discomfort.<sup>17,18</sup>

49% of the NET only affect the mucosa and submucosa, 24% infiltrate the muscularis propria, and 15% extend to the perirectal fat.<sup>17</sup> 75%-85% are located in the rectal wall.<sup>12</sup> Tumor size and lymphovascular invasions are risk factors for lymph node involvement.<sup>16,17,19,20</sup>

Liver metastases become more frequent as tumor size increases.<sup>16</sup> These are present in 1.7% of the NET $\leq$ 1 cm, in 15% of those between 1 and 2 cm and in 50% of those  $>$ 2 cm.<sup>20</sup>

The majority of NET are diagnosed endoscopically.<sup>12</sup> Endorectal ultrasound seems to be the best method for

**Table 1 – Particularities of Each Type of Tumor.**

| Tumor type         | Cells of origin             | Risk factors                                     | Prognostic factors  | Usual treatment                                      | Adjuvant treatment | 5-year survival % |
|--------------------|-----------------------------|--|---|--|--------------------|-------------------|
| NET                | Kultschitzky cells          | Unknown  | - No. of mitoses<br>- Ki67                                  | <1 cm: local resection<br>>2 cm: oncologic resection | -                  | 90                |
| NEC, MANEC         |                             |  |   | Oncologic resection                                  | CTx                | 15                |
| GIST               | Interstitial cells of Cajal | Unknown  | - Size<br>- No. of mitoses<br>- Tumor rupture               | Resection with free margins                          | Imatinib           | 70                |
| Other sarcomas     | Rectal connective tissue    | - Previous RT                                    | - Differentiation<br>- Tumor necrosis                       | Resection with free margins                          | RT                 | 50                |
| Lymphomas          | Rectal lymphoid tissue      | - HIV<br>- IBD<br>- Immunosuppression            | - No. of mitoses<br>- Histologic type<br>- Histologic grade | Oncologic resection                                  | CTx                | 30-60             |
| Squamous carcinoma | Rectal epithelium           | - HPV<br>- Chronic rectal inflammatory processes | -   | CRT<br>Oncologic resection                           | -                  | 30                |

IBD: inflammatory bowel disease; GIST: gastrointestinal stromal tumor; HIV: human immunodeficiency virus; HPV: human papilloma virus; MANEC: mixed adenoneuroendocrine carcinoma; NEC: neuroendocrine carcinoma; NET: neuroendocrine tumor; CRT: chemoradiotherapy; CTx: chemotherapy; RT: radiotherapy.

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