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# **Squamous Cell Carcinoma of the Anal Canal**

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### **Introduction:**

compromised patients. (1)

The mainstay of treatment is primarily radiotheragery is generally reserved for particular cases. (1)

# **Objective:**

Discussing the benefits of surgical intervention for cell carcinoma on anal condyloma. treating squamous cell carcinoma located at the anal margin

# **Case Report:**

We present the case of a 44-year-old patient, a chronic smoker (12 pack-years), chronic cannabis user, and former alcoholic (sober for 12 years), with a history of homosexuality. The disease history dates back 18 years, with the appearance of a mass on the anal margin, gradually increasing in Figure 1: Image of the anal margin condyloma size, without associated rectal symptoms or gastro- Pelvic

intestinal bleeding. On general examination, the Anal canal cancer is a rare disease, with squamous patient was conscious, hemodynamically and rescell carcinoma representing 95% of cases. Its inci- piratorily stable, with a performance status of 0 dence is increasing, especially among immuno- and a BMI of 18.1 kg/m<sup>2</sup>. Perineal examination revealed a condyloma on the anal margin, with palpable sphincter tone but no intraluminal mass.

py combined with concurrent chemotherapy. Sur- Proctological examination revealed a crest-like, exophytic formation with multiple outgrowths covering the entire anal margin. Histopathological examination of biopsies favored in situ squamous



**AJMCRR, 2024** Volume 3 | Issue 11 | 1 of 5 contrast, with serrated contours measuring approxi- resection margins. mately 61mm/47mm/55mm, perineal and in contact with the scrotal sac and adductor muscles, with per- Postoperative recovery was uneventful, and the padetectable lymphadenopathy.

Immuno-serology (hepatitis serology, HIV) was negative.

After multidisciplinary consultation, the decision was surgery. The patient underwent surgical excision of the condyloma.



Figure 2: Image after condyloma resection

Anatomopathological examination of the resection

MRI revealed a tissue formation with discreet Flair ma measuring 6mm in length and 10mm in depth hypersignal, diffusion hypersignal, enhancing with on the condyloma, respecting the lateral and deep

sistent separation without sphincter involvement or tient was discharged on postoperative day 2. Follow-up was one year.



### **Discussion:**

Anal canal cancer is rare (less than 4% of digestive cancers), with an incidence of approximately 1.3/100,000 in men and 2.1/100,000 in women. In recent decades, the epidemiological profile has changed, with a higher incidence among HIVpositive male homosexuals, despite the advent of antiretroviral therapies. The risk of anal cancer is increased by 40-fold in HIV-infected men and 80fold in HIV-positive homosexuals. HPV infection is associated with over 90% of anal cancer cases. (2,3)

Risk factors include immunosuppression, smoking, receptive anal intercourse, multiple sexual partners, and advanced age. (3)

specimen revealed invasive squamous cell carcino- The most common histological type of anal canal

cancer is squamous cell carcinoma, often preceded by the development of low-grade and high-grade • dysplastic lesions. However, not all dysplastic lesions progress to invasive carcinoma, and the risk of progression is influenced by other factors such as immunosuppression. Therefore, the real risk of • progression from anal dysplasia to cancer remains difficult to assess.(5)

Squamous cell carcinoma of the anal canal is a lymphophilic tumor, but visceral metastatic involvement remains rare. Pre-therapeutic assessment allows evaluation of tumor extension and the • patient's general condition. Clinical examination, anoscopy, and digital rectal examination are essential to assess the local extension of the lesion. (4). Paraclinical assessment includes at least pelvic MRI, abdominopelvic CT scan, HPV and HIV serology, and PET scan, which is useful for evaluating locoregional lymph node involvement and me- The surveillance protocol after treatment is summatastases. (5)

Tumor size greater than 4 cm, lymph node involvement, and male gender are the main poor prognostic factors. (9)

Treatment is based on radiotherapy, often combined with concurrent chemotherapy, especially in locally advanced forms. Surgery should be considered mainly for extensive forms for primary tumor management, in case of radiotherapy/chemotherapy failure or local recurrence, and in the treatment of residual satellite lymphadenopathies. (6)

Surgery is indicated for uT1 lesions if histological evidence of basement membrane invasion cannot Challenges and Perspectives: be obtained. (5,8)

cannot be obtained. (5,8)

- For squamous cell carcinomas of the anal margin, surgical excision with clear margins (> 1 mm) is the standard treatment, as in the case of our patient. (10)
- For squamous cell carcinomas of the anal canal (10)
  - Exclusive radiotherapy is the first-line treatment, allowing sphincter preservation and a high rate of locoregional control, provided basement membrane invasion is histologically proven and specified in the pathological report.
- If basement membrane invasion is not histologically proven, the risk of irradiating severe anal dysplasia (AIN3) should be avoided, and surgery should be considered with resection along the internal sphincter and submission of a spread and oriented specimen for histology.

rized in the following table: (11,12,13)

Digital Rectal Examina- tion Clinical examina- tion Anoscopy  Every 4 months mo	
examina- tion months mo	ry 6 Optio-
(optional)	nths nal
Abdom- Every 4 months CT Scan (for On	ce a / ear /

While outcomes are excellent for localized tumors, Surgery is indicated for uT1 lesions if histolog- the prognosis is poor for locally advanced tumors, ical evidence of basement membrane invasion with a 3-year recurrence-free survival of 60%. For

for therapeutic intensification, either by dose esca- involvement being rare. The most frequent histololation in radiotherapy or by neoadjuvant or adju- gy is squamous cell carcinoma. vant chemotherapy. New therapeutic combinations are also under study; targeted therapies (anti-EGFr) It is a curable cancer, with treatment based on radihave yielded controversial results. (14) The advent otherapy and chemotherapy, with surgery reserved of immunotherapy constitutes a new research ave- for failures or recurrences after treatment. nue with strong rationale considering the immune pathways involved in virus-induced carcinogenesis. Recent technological advances offer new possibili-Preliminary results with pembrolizumab and ties, both in terms of imaging for staging or postnivolumab appear promising in metastatic forms. treatment surveillance, and in terms of treatment Conversely, therapeutic de-escalation may be pos- with the development of intensity modulation in sible for small tumors, by exclusive radiotherapy or radiotherapy or the arrival of targeted therapies in radiochemotherapy with a limited dose to 30 Gy on the field of chemotherapy. reduced volumes, or even surgery for T1 stages. (15,16)

#### **Conclusion:**

Squamous cell carcinoma of the anus, in 9 out of 10 cases, is associated with HPV and its incidence References: is increasing. Primary prophylaxis with nonavalent 1. Cancer du canal anal | SNFGE.org - Société vaccine is being deployed. Screening is justified in HIV-positive individuals, those engaging in anal sex, solid organ transplant recipients for more than 2. 10 years, and/or those with a history of HPVinduced cancer. Treatment is primarily based on radiotherapy and chemotherapy; however, surgery retains a crucial role in certain cases with good results.(17)

# **Summary:**

Anal canal cancer is a rare cancer, but its incidence is increasing. It predominantly affects women in their seventh decade; however, the epidemiological profile is changing with the involvement of younger male patients, seropositive for the human immu- 4. nodeficiency virus.

It is a lymphophilic cancer with primarily locore-

these tumors, the current question concerns options gional pelvic extension, with visceral metastatic

The challenge of treatment remains achieving locoregional control while reducing toxicity and sequelae.

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