Case Report

Verrucous carcinoma at ileostomy site

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ABSTRACT

We describe of a case, a 50 year old male who was operated for carcinoma of the descending colon and diverting loop ileostomy, developed a fungating lesion in mucocutaneous junction of ileostomy after one year which on histology revealed to be a Verrucous carcinoma.

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Introduction

Complications of stomal site are often encountered by clinicians but neoplasms of stomal sites are very rare. It can be confused or get obscured by granulation, tissue excoriations or ignorance by health care provider. We share our experience of a rare case of verrucous carcinoma.

Case report

A 50 year old male seropositive for human immunodeficiency virus (HIV) was planned for a loop ileostomy closure after one year of anterior resection for adenocarcinoma of descending colon. Patient had received adjuvant chemotherapy. Patient was also on HAART (highly active anti-retroviral therapy) for HIV infection.
Discussion

Complications of stoma are well described and include stomal herniation, prolapse of stoma, retraction, skin excoriation, intestinal obstruction, stenosis, abscess, fistula, diarrhoea, urinary calculus, ileitis, and inflammatory polyps. Development of malignancy at ileostomy in is rare\(^1\) Suarez et al. estimated the incidence of ileostomy carcinomas in patients with ileostomy for various indications in the UK to be 2 to 4 per 1000 ileostomies. Squamous cell carcinoma (SSC) have been described commonly in HIV positive patients at mucocutaneous junctions specially anorectal junction.\(^2\) However to our knowledge VC has not being described at the ileostomy site, although there are reports of SCC.

 Till date only a few cases of SCC at ileostomy have been described.\(^3\) Ulcerative colitis was the most common underlying condition; Farshid in their review described timing of lesion from ileostomy fashioning was in the range of 26 years to 54 years. In our case this time was very short (12 months).

 Maw et al.\(^5\) had mentioned in their case series of 44 stomal neoplasms; described 40 adenocarcinomas and four squamous cell carcinoma, but no VC variant was described. They described of ileostomy neoplasm associated with Crohn’s disease, familial adenomatous polyposis and ulcerative colitis. They postulated that chronic irritation predisposed the stoma to malignant changes. They discussed a strong association in patient with chronic diseases like ulcerative colitis or primary sclerosing cholangitis making it a high risk group for ileostomy neoplasms. The chronic irritation theory is supported by the fact that majority of stomal carcinoma have been described only in long standing permanent stomas.\(^6\) In the setting of HIV, human papilloma virus (HPV) infection is well known to predispone to carcinomas. Viral interactions in HPV can predispose to VC.\(^6\) In our case though the immunohistochemical analysis for HPV was negative. The E6/E7 viral oncoproteins of HPV are proved to inactivate the tumour suppressor gene like p53 and pRb which in turn lead to the cell proliferation and eventually turning them in to malignant cells. Highly active anti-retroviral therapy (HAART) modulating the immune is also taken into account while considering interactions of these viruses.\(^7\)

 Overall risk of carcinomas in HIV patients is more than in general population.\(^7\) Moreover associations of HIV – non-Hodgkin’s lymphoma (NHL) at ileostomy site specifically because of microtraumatisms and locally present antigen stimulation and activation has been discussed in their work by Levecq et al.\(^8\)

 Also it is pertinent to mention activation of signalling pathways like Akt/mTOR which can get activated and is also known to cause VC in oral malignancy.\(^8\)

Conclusion

Peristomal carcinoma is a rare entity. VC (a rare form of SCC) may arise as a lesion from an ileostomy. A clinician must suspect malignancy when there is a hypergranulation or mass like lesion at ileostomy site. Immunodeficiency conditions like HIV
should be considered a high risk group for such rare forms of malignancy.

**Conflicts of interest**

The authors declare no conflicts of interest.

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**References**