Breach of the Greater Omentum through the Bladder then the Urethra: A Case Report

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Abstract

Perforation of the bladder, as a late complication of radiation therapy, is a rare condition, especially on a non-necrotic bladder. We report in this publication, the case of a patient, who 1 and a half year after the end of her irradiation, presented a complication characterized by a bladder perforation with intrusion of the greater omentum through the bladder, along the ureter to the outside, to subsequently necrose and expose the patient to a risk of urinary peritonitis.

Keywords: breach of bladder, greater omentum, radiotherapy.

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INTRODUCTION

Radiation therapy, whether or not combined with chemotherapy, is a treatment of choice that finds its indication in locally advanced cervical cancers or in pre-surgery. The inventory of the complications of this therapy made it possible to classify them as early and late, which can affect all the exposed organs.

CASE REPORT

A 50-year-old patient, followed in the radiotherapy department for moderately differentiated epidermoid carcinoma of the cervix, for which she received concomitant radio-chemotherapy at a total dose of 70 grays with good progress. Patient lost to follow-up and then readmitted after a year and a half with metrorrhagia and a tumor recurrence that had become advanced, non-surgical. The decision was to put the patient on palliative chemotherapy.

We admitted this same patient to adult emergency for breacking of her great omentum through the urethra via a perforation of her bladder.

On the biological level: hemoglobin was at 8 g / dl, leukocytes at 12200 / uL, CRP at 387 mg / L, the rest of the balance was no perturbations.

The patient benefited from an abdominal CT that found out a prolapse through the urethra with predominantly fatty content containing a part of the greater omentum as well as a part of a jejunal loop without no sign of ischemia in the intestine.

After pre-anesthetic assessment, we took the patient to the operating room where under general anesthesia, in lithotomy position, we proceeded by a sub umbilical median laparotomy. The exploration revealed an intraperitoneal effusion of about 1.5L made of urine with a perforation of 2cm from the anterosuperior edge of the bladder through which the large omentum necroses over the entire extent of the prolapsed part. We therefore removed and aspirated the necrotic fatty tissue through a much-dilated urethra.
effusion fluid, reintroduced the greater omentum intraperitoneally, resected the necrotic portion of the greater omentum and closed the bladder breach. We then did a tightness test, washed and drained the peritoneal cavity by a drain at the level of the pelvis.

- Episodes of sub-occlusion or even occlusion by small bowel radiation.
- Chronic radiation cystitis with more or less disabling pollakuria and bladder instability syndrome, hematuria, vesico-vaginal fistula. Bladder complications are getting more serious by the addition of chemotherapy, compared to patients who receive radiotherapy alone [6].
- Pathological fractures of the pelvic bones.
- Lymphedema due to affection of the lymphatic drainage of the lower limbs.

A classification in 5 grades of the morbidity of radiotherapy at the genitourinary level has been proposed by the Radiation Therapy Oncology Group, member of the National Cancer Institute, as follows [7]:

Grade 0: No symptomaticity

Grade 1: Day or night pollakuria twice as frequent as before treatment. Dysuria and urgency that do not require treatment

Grade 2: Day or night pollakuria less frequent than hourly. Dysuria, urgency, or bladder spasm requiring a local anesthetic.

Grade 3: Imperious pollakuria at least every hour. Dysuria, pelvic pain or bladder spasm requiring regular and frequent painkillers. Significant haematuria with or without emission of clots

Grade 4: Hematuria requiring transfusions. Bladder obstruction not secondary to a clot release. Bladder ulceration or necrosis

Grade 5: Toxicity resulting in death of the patient

The breach of the bladder wall, as a complication of radiotherapy, remains a rare event [8], but which remains present in the Asian series, especially Japanese ones, because of the high doses of brachytherapy associated with radiotherapy in the treatment cervical cancer [9].

The case of our patient arouses interest mainly because of its rarity but also of the attitude of the great omentum which crossed the perforation to then emerge through the urethra which it dilated. This exposed the patient, among other things, to a risk of urinary peritonitis.

**CONCLUSION**

Finally, since radiotherapy is widely used for cervical cancer, radiotherapists, surgeons and urologists should consider the possibility of a high incidence of such serious complications.
REFERENCES


