Malignant Transformation of An Urachal Cyst

Bacha D1, Guizani R2, Ferjaoui W2,*, Atallah A2, Slama SB1 and Lahmar A1

1Department of Pathology, Mongi Slim University Hospital, Faculty of medicine of Tunis, University of Tunis El Manar, Tunisia
2Department of General surgery, Mongi Slim University Hospital, Faculty of medicine of Tunis, University of Tunis El Manar, Tunisia

*Corresponding author:
Wael Ferjaoui,
Department of General surgery,
Mongi Slim University Hospital,
Faculty of medicine of Tunis,
University of Tunis El Manar,
Tunisia, Tel: +216 52430099,
E-mail: farjaouiwael4@gmail.com

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1. Clinical Image

A 27-year-old man presented to our hospital for abdominal pain and a cheesy discharge from the umbilicus which lasted for a few days. He was afebrile. The physical examination revealed periumbilical tenderness and discharge from the umbilicus. There were no signs of general infection. Otherwise, he had neither specific symptoms nor a palpable abdominal mass. Pelvic Computerized Tomographic (CT) scanning confirmed the presence of a cyst in the midline of the abdominal wall, with communication with the bladder and peripheral calcification. The mass was infiltrated to the perivesical fat (Figure 1). The patient was prepared for surgery. During laparotomy, a urachal cyst with the cuff of the bladder dome were removed (Figure 2). Recovery was unremarkable. The resected specimen was a partial cystectomy specimen with perivesical fat and the median umbilical ligament (Figure 3A) Microscopically, Carcinomatous proliferation arranged in glandular structures and isolated cells, ring-like appearance, within pools of mucus. Infiltration of the detrusor muscle (star) with peri-nervous sheath

Malignant urachal neoplasms can arise from an urachal remnant but are rare and represent less than 1% of all bladder cancers yet 34% of all bladder adenocarcinomas are urachal in origin [1, 2]. The urachus is lined by transitional epithelium, yet urachal carcinoma manifests as adenocarcinoma in 90% of cases. Urachal tumors are most commonly found in patients aged 40-70 years, and two-thirds of these cases occur in men [3]. The prognosis is related to the stage and degree of differentiation; however, due to their extraperitoneal location, they may be clinically silent and manifest only when invasion or metastatic disease occurs [3]. In these cases, prognosis is generally poor, with a 5-year survival rate of 6.5 -15%.
Figure 2: The resected specimen was a partial cystectomy specimen with perivesical fat and the median umbilical ligament.

Figure 3:
A: Cyst with a smooth, whitish surface of 18X16X6 cm, to which is attached a gelatinous formation of 3X2 cm (in frame and in cartridge).
B: Carcinomatous proliferation arranged in glandular structures and isolated cells, ring-like appearance, within pools of mucus. Infiltration of the detrusor muscle (star). Note a peri-nervous sheath (arrow) (Hematoxylin Eosin x 250)

References: