

A Rare Case of Delayed, Isolated Vulvar Metastasis of Endometrioid Carcinoma of the Endometrium

Lauren Little M.D., Victoria Polo MS-4, James Burke II M.D.

Background

Endometrial carcinoma most frequently metastasizes to the pelvic and para-aortic lymph nodes, and more rarely to the vagina and adnexa; however, reports of metastasis to the vulva are extremely rare with only one other known report of an isolated vulvar metastasis following surgical treatment and vaginal brachytherapy for the primary tumor.

Case

In this report, we discuss a unique case of delayed vulvar metastasis following endometrioid carcinoma of the endometrium. This patient was G0 88-year-old female who presented with a stage IB, grade 2 endometrioid carcinoma of the endometrium initially treated with a robotic total laparoscopic hysterectomy with bilateral salpingectomy as well as pelvic and para-aortic lymph node dissection. Post-operatively, after considering the size and grade of the tumor in addition to the depth of invasion, pathological findings, and the patient's age, the decision was ultimately made to proceed with vaginal brachytherapy. The patient returned 20 months after her initial procedure and brachytherapy with a new presentation of an ulcer to the left vulva. Preliminary biopsy results of the lesion revealed metastatic vulvar carcinoma consistent with an endometrial primary tumor. She underwent a successful left radical partial vulvectomy with complex wound closure with final pathology again demonstrating a metastatic, poorly differentiated endometrial carcinoma.

Discussion

While endometrial cancer is the most common gynecologic malignancy in the United States, vulvar metastases are tremendously rare. This case demonstrates a unique presentation of an isolated vulvar metastatic site in addition to a delayed presentation almost 2 years after initial surgical treatment. Further research is needed into the potential mechanisms for poorly differentiated vulvar metastases from primary low-grade lesions as seen in this case.