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Primary squamous cell carcinoma arising from endometriosis of the ovary: a case report and literature review

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Abbreviations

SCC: squamous cell carcinoma; HPV: human papillomavirus

Abstract

BACKGROUND: Cases of squamous cell carcinoma (SCC) arising from ovarian endometriosis have been rarely reported. Most of the patients show a poor prognosis and present with a diminished survival time. **METHODS:** We present a SCC case arising from endometriosis, and analyzed the clinical, therapeutic, and pathologic features through a comprehensive literature review. A 43-yr pre-menopausal woman (gravida 2, para 1) presented to our hospital due to sudden pain in lower abdomen. Exploratory laparotomy indicated rupture of left ovarian cyst and intra-abdominal hemorrhage were observed. Frozen section pathological examination indicated malignant ovarian (left-sided) epithelial tumor (poorly differentiated squamous carcinoma). She received hysterectomy, adnexectomy, and omentectomy. Initially, the patient received three cycles of chemotherapy using paclitaxel and cisplatin via peritoneal injection. Subsequently, the regimen was altered to 2 cycles of paclitaxel/cisplatin chemotherapy through intravenous injection due to poor tolerance. Upon diagnosis of vaginal metastasis, 2 cycles of chemotherapy was performed using cisplatin, doxorubicin and cyclophosphamide. Pathological analysis revealed massive poorly-differentiated squamous carcinoma in the fibrous tissues. Besides, cancer embolus was

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