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Case Report

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Metastasis of squamous cell cervical carcinoma to the orbit of the eye $\stackrel{ agenum}{\sim}$

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Introduction

According to the American Cancer Society, there will be an estimated 12,710 new cases of cervical cancer with 4290 deaths in the US in 2011 (American Cancer Society). Even though the incidence and mortality of cervical cancer has decreased in the US, there are still many patients, particularly from minority groups, who continue to present with advanced stages of the disease. The lifetime probability of developing invasive cervical cancer is 1/145 women, with the most common routes of spread being local invasion of surrounding organs and through lymphatic channels (Monk and Tewari, 2007). Distant sites account for 27% of metastasis, however there are only 5 previously reported cases of orbital metastases (Monk and Tewari, 2007; Gosslee et al., 2009; Park et al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987).

Case report

A 59-year-old woman was evaluated for several months of foulsmelling vaginal discharge followed by symptoms of pelvic discomfort and difficulty voiding. She had not received a routine gynecologic examination in more than 10 years. A computed tomography (CT) scan of the pelvis and an exam under anesthesia (EUA) with tissue biopsies of the cervix and a paravaginal mass was performed. The CT scan revealed a spherical mass measuring 4.5 cm that completely replaced the uterine cervix without extension any further than the anterior vagina and immediately adjacent tissue [Fig. 1]. There was no evidence of hydroureter or para-aortic lymphadenopathy. A chest X-ray showed atelectasis, however no masses were present. Histology showed poorly differentiated squamous cell carcinoma. She was subsequently diagnosed with stage IIIA carcinoma of the cervix given periurethral and vaginal involvement. She was treated with concurrent external beam pelvic and groin radiation therapy and weekly Cisplatin, followed by brachytherapy. An EUA was performed during urethral interstitial implant placement and the cervical mass had resolved with radiation changes at the cervix. At her 3-month follow-up visit in clinic, she refused a pap test and pelvic exam due to fear of discomfort.

Five months after initial presentation she was evaluated for a syncopal episode and fall. Work-up including head CT scan did not reveal any abnormalities. One month later, she presented with headaches, left eye proptosis, and epiphora with preserved vision. CT scan of the orbits revealed a fusiform enlargement of the left lateral rectus muscle with a fluid dense core and enhancing rim concerning for retrobulbar abscess versus neoplastic process. This abnormality was not reported on CT of the head including imaging of the orbits that was performed 1 month earlier. After excluding an infectious process, the patient was started on corticosteroids and was scheduled to return for outpatient ophthalmologic follow-up. Magnetic resonance imaging performed 2 weeks later showed an interval enlargement of the left retrobulbar orbital mass. She underwent surgical biopsy and pathology was positive for squamous cell carcinoma consistent with metastasis from cervical cancer [Fig. 2]. During this evaluation, the patient was offered HIV screening twice but she declined the test.

She subsequently began radiation therapy to her left orbit. Despite treatment, the orbital mass nearly doubled in size over the next month [Fig. 3]. She was hospitalized again due to poor pain control and intractable nausea and vomiting. Follow-up positron emission tomography CT scans of the body also revealed interval development of widely metastatic disease involving lung, liver, adrenals, bone, and scalp. Despite palliative radiation therapy her clinical status continued to deteriorate and she was eventually sent home on hospice care. She died 10 months after the initial diagnosis of cervical cancer and 4 months after the diagnosis of orbital metastasis.

Comment

There are only five cases of cervical cancer metastatic to the orbit that have been reported in the literature (Gosslee et al., 2009; Park et

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Fig. 1. CT scan with pelvic lesion causing urethral obstruction due to mass effect.

al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987). Symptoms at the time of diagnosis included orbital pain, proptosis, lid swelling, and diplopia with variable effects on visual acuity (Gosslee et al., 2009; Park et al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987). Stage at initial diagnosis of cervical carcinoma ranged from FIGO IB1 to IV, though upon presentation with orbital metastasis all but one case had concurrent distant metastases (Gosslee et al., 2009; Park et al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987). Time from primary diagnosis to orbital metastasis was highly variable, ranging from 4 months to 10 years (Gosslee et al., 2009; Park et al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987). Histology was also variable, including 3 squamous cell carcinomas, one adenocarcinoma, and one undifferentiated carcinoma whose

cervical origin was confirmed by HPV PCR of the tissue biopsy (Gosslee et al., 2009; Park et al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987). Treatment of orbital metastases is usually palliative and consists of radiation therapy. Surgical excision and chemotherapy may also be considered, but their benefit has not been proven. All patients had poor outcomes despite attempts of treatment with chemotherapy, radiation and/or surgery, with death ranging from 3–10 months after diagnosis of orbital metastasis (Gosslee et al., 2009; Park et al., 2005; McCulley et al., 2002; Lee et al., 1997; Hertzanu et al., 1987).

As mentioned previously, cervical cancer metastasis occurs through local invasion of surrounding tissue and through lymphatic dissemination. Hematogenous dissemination, although uncommon, is most likely to involve the liver, bones or lungs (Monk and Tewari, 2007).

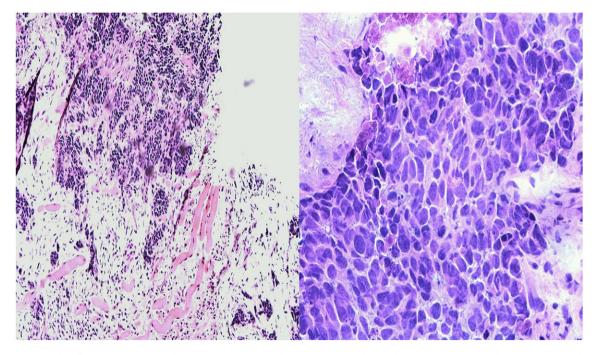


Fig. 2. Metastatic moderately differentiated squamous cell carcinoma with tumor cells showing marked pleomorphism, hyperchromasia and necrosis (hematoxylin-eosin, original magnification \times 100 and \times 400).

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