

Choriocarcinoma of uterine cervix with cerebral and lung metastasis

M. A. Ansari, L. R. Pokhrel, R. Thapa, D. M. Shrestha, S. Pradhan

Department of Radiology and Imaging, Tribhuvan University, Teaching Hospital, Maharajgunj, Kathmandu, Nepal, Nepal International Clinic, Kathmandu, Nepal.

Correspondece to: Dr. Mukhtar Alam Ansari, Dept. of Radiology and Imaging, Tribhuvan University, Teaching Hospital, Maharajgunj, Kathmandu, Nepal.

e-mail: mukhtar077@hotmail.com

Abstract: Uterine cervical choriocarcinoma was diagnosed in a 22-years-old woman, admitted to the hospital with irregular vaginal bleeding, hemoptysis and intermittent fever for three months. She had undergone dilatation and curettage for incomplete abortion in the past and had a full term normal vaginal delivery. Pelvic examination revealed a tumor mass occupying the uterine cervix. Ultrasound of the abdomen and pelvis showed an ill defined heterogeneous predominantly isoechoic mass lesion arising from the cervical part of the uterus with invasion to the posterior wall of urinary bladder with bilateral ovarian cysts. Chest radiograph revealed multiple nodular soft tissue density radiopaque shadows of various sizes in lower zones of both lung fields. CT scan of the abdomen revealed heterogeneous soft tissue density mass lesion with central areas of hypodensities, arising from the cervical part of uterus. Fat plane with inferior wall of the bladder and rectum were lost. The mass shows heterogeneous enhancement after administration of contrast material. CT scan of head revealed multiple hemorrhagic lesions in the supratentorial compartment with perilesional edema. Urine pregnancy test was positive. Urine hCG in high dilution was also positive (upto I: 1024) and Serum B-hCG was 181.3(7) mUL/ml. Histopathological findings led to the diagnosis of choriocarcinoma of the cervix.

Introduction

The incidence of choriocarcinoma is high in Asian countries including Nepal. Choriocarcinoma is one of the malignant tumours of trophoblastic cells characterized by the secretion of human chorionic gonadotrophin (hCG) from syncytiotrophoblastic cells.^{1,2,3} It grows rapidly, with wide spread hematogenous dissemination which may be fatal before the diagnosis is even suspected. The most common sites of systemic metastatic disease are lungs, liver and brain via hematogenous spread.¹ Primary extra-uterine choriocarcinoma is very rare, found mostly in the genital tract (tube cervix, ovary, and vagina) in patients with coincidental or antecedental pregnancy. Choriocarcinoma that appears as a primary process of the uterine cervix can easily be misdiagnosed as cervical pregnancy, benign, or

malignant uterine cervical neoplasia.^{4,5,6} Here we report a case that is diagnosed to have choriocarcinoma of the uterine cervix.

Case Report

A 22 years old female underwent dilatation and curettage for incomplete abortion in 2001. She had one full term normal vaginal delivery and had occasionally used hormonal contraceptives. On January 2005, she was brought to the emergency with complains of passage of blood in urine, coughing out blood and intermittent fever for 3 months. Ultrasound of the abdomen was done which revealed an ill defined heterogenous predominantly isoechoic mass lesion arising from the cervical part of the uterus with invasion to the posterior wall of urinary bladder with bilateral ovarian

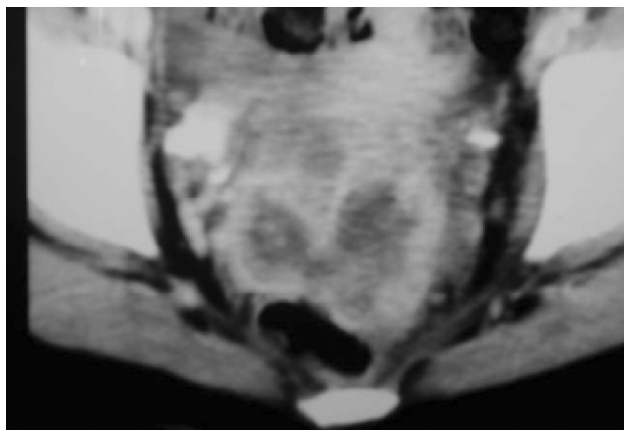


Fig: 2 A. Heterogenous soft tissue density mass lesion with central areas of hypodensities, arising from the cervical region of uterus.

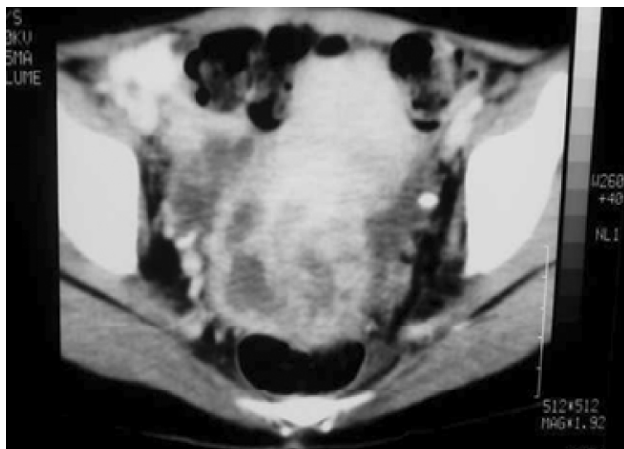


Fig: 2 B. The mass shows heterogeneous enhancement after I/V administration of contrast.

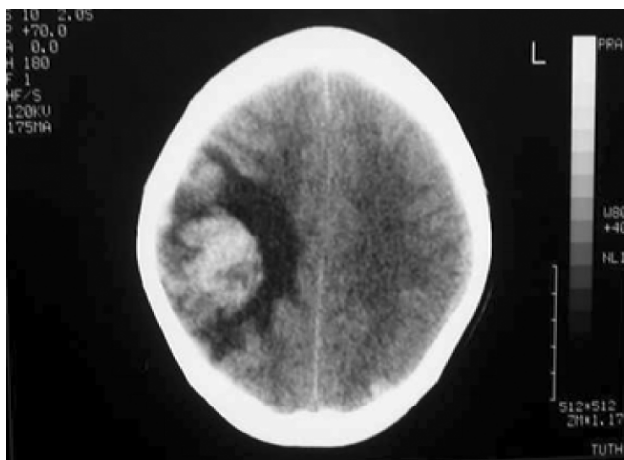


Fig. 3 A.

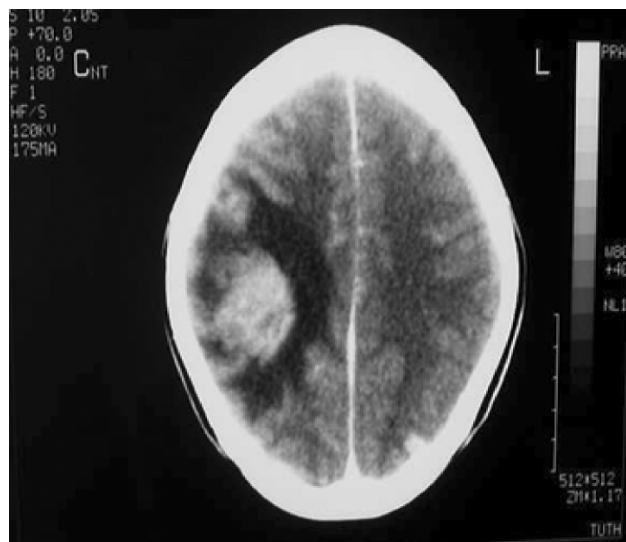


Fig: 3 B. Plain and contrast enhanced CT scan of head shows haemorrhagic lesion in the right parietal region with perilesional oedema.

References

1. Copeland LJ. Gestational trophoblastic neoplasia, In Copland CJ, Jarrell, editors. Textbook of gynecology. 2nd ed. Philadelphia: W.B Saunders, 2000;1418-27.
2. Clement PB, Young RH. Ovarian germ cell tumours, In: Clement PB, Young RH, editors. Atlas of Gynecologic surgical pathology. Philadelphia: W.B. Saunders, 2000;346.
3. Shimizu S, Nagata Y, Han-yaku H. Metastatic testicular choriocarcinoma of the skin: Report and review of the literature. Am J Dermatopathol 1996; **18**: 633-6.
4. Hertz BR, Yee JM, Porges RF. Primary cervical choriocarcinoma: case report and review of literature. J Ultrasound Med 1993; **12**(1):59-62.
5. Yahata T, Kodama S, Kase H, Sekizuka N, Kurabayashi T, Aoki Y, et al. Primary choriocarcinoma of the uterine cervix: clinical, MRI, and color Doppler Ultrasonographic study. Gynecol Oncol 1997; **64**: 274-8.
6. Baykal C, Tulunay G, Bulbul D, Boran N, Kose MF. Primary choriocarcinoma of uterine cervix in a postmenopausal patient: a case report. Gynecol Oncol 2003; **90**:667-9.
7. Paradinas FJ Pathology and classification of

Choriocarcinoma

trophoblastic tumours. Gynecologic Oncology (Edited by: Coppleson M) Churchill living stone, London 1992; **2**:1013-1026.

8. Acosta-Sison H. Ab initio choriocarcinoma: two unusual cases. Obstet Gynecol N Y 1959, **13**:350-352.
9. Fox H and Buckley CH. The female genital tract and ovaries In Oxford text book of Pathology (Edited by: McGee JOD, Isaacson PG, Wright NA) Oxford university press, New York 1992;**2a**:1565-1639
10. Muggia FM, Eifel PJ and Burke TW. Gestational trophoblastic diseases In Cancer Principles and practice of Oncology (Edited by: de Vita VJ Jr, Hellman S, Rosenberg SA) Lippincott-Raven, Philadelphia 1997; 1427-1539.