

University Journal of Medicine and Medical Specialities

ISSN 2455-2852

2018, Vol. 4(3)

A Case Report report on Rhabdomyosarcoma of the uterus INDUMATHI

Department of Obstetrics and Gynaecology, PSG INSTITUTE OF MEDICAL SCIENCE & RESEARCH

Abstract : Most uterine sarcomas fall into these categories leiomyosarcoma, endometrial stromal sarcoma or undifferentiated sarcoma. Yet rhabdomyosarcoma element may be present as a component adenosarcoma or carcinosarcoma (malignant mixed mullerian tumor). Pure rhabdomyosarcoma are extremely rare. We report a case of 60 yr old postmenopausal women para six living six came with complaints of brownish discharge per vaginum. Ultrasonography showed bulky uterus with pyometra. Fractional curettage revealed malignant mixed mullerian tumor. Patient underwent total abdominal hysterectomy with bilateral salphingo oophorectomy with pelvic lymphadenectomy. Rhabdomyosarcoma with review of literature is presented in the following work

Keyword :HETEROLOGOUSRHABDOMYOSARCOMAUTERUS POSTMENOPAUSAL.

REVIEW OF LITERATURE:

Anderson and Edmansson reported the first rhabdomyosarcoma of the corpus uteri in 1869, and the first English report was by Robertson in 1909³. Donkers and colleagues in 1972 reported two cases and reviewed the literature. They were able to find 49 rhabdomyosarcomas of the corpus uteri reported since 1869. Except for reports by Kukla and Douglas and Middlebrook and Tennant, most studies are reports of one to three patients. A 33-year review of all uterine sarcomas at the University of Iowa revealed no pure corpus uteri rhabdomyosarcomas.We find that the rarity of this histological entity makes it particularly worthy of publication.

CASE REPORT:

60 yr old postmenopausal women ,Para 6 live 6 came with complaints of non-foul smelling brownish discharge per vagina for 1 month associated with lower abdominal pain & abdominal distention for 10 days. On examination general condition was fair and vitals were normal, systemic examination was normal. Per abdomen examination , abdomen was soft and no organomegally. Per speculum examination revealed pin hole OS with draining of blood stained fluid, Per vaginal examination uterus was progressively increasing in size around 12 to 14 weeks due to collection of fluid and growth of mass. On investigating pap-smear showed high grade squamous intra epithelial lesion.

An Initiative of The Tamil Nadu Dr. M.G.R. Medical University University Journal of Medicine and Medical Specialities Ultrasound abdomen showed bulky uterus with heterogeneous echoes & irregular anechoic areas (7 x 4.8 x2.8) sized irregular collection in the body of uterus. Cervix appears normal. Ovaries not visualized separately.Fractional curettage done and histopathology revealed malignant mixed mullerian tumor with heterologus rhabdomyosarcomatous component.

CT Pelvis showed Grossly enlarged uterus (9x12x10.5) with distended endometrial cavity withirregular enhancing lesions & large amount of fluid.

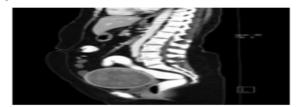


FIG1:CT SHOWING DISTENED ENDOMETRIAL CAVITY WITH IRREGULAR ENHANCING LESIONS WITH LARGE AMOUNT OF FLUID

Patient was taken up for Staging Laparotomy. Per operatively Uterus enlarged to 16 weeks size with smooth surface & intact serosa. Bilateral adnexa, Pouch of Douglas, undersurface of liver, diaphragm, bowel were nomal with enlarged right pelvic nodes.



FIG2:SHOWING ENLARGED UTERUS-16 WEEKS SIZE

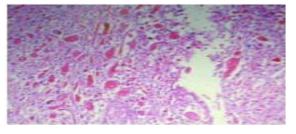


FIG3&4:SPECIMEN OF UTERUS & ITS CUT SECTION SHOWING MALIGNANT GROWTH

Total Abdominal Hysterectomy with Bilateral Salphingo Oophorectomy with pelvic Lymphadenectomy done.

Histopathology showed Malignant mixed mullerian tumor with heterologus (rhabdomyosarcomatous elements) Invasion into inner half of myometrium Both Ovaries and Fallopian tubes are free of tumor, lymph nodes were free of tumor

HPE Slides



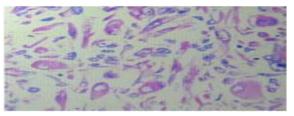


FIG 5&6: TUMOUR COMPOSED OF PLEOMORPHIC SPINDLE SHAPED CELL WITH ABUNDANT EOSINOPHILIC CYTOPLASAM

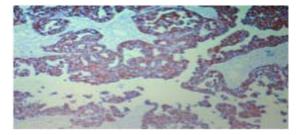


FIG7: IMMUNOHISTOCHEMISTY POSITIVE FOR CYTOKERATIN

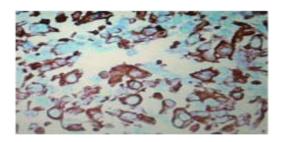


FIG8: IMMUNOHISTOCHEMISTY POSITIVE FOR MYOGENIN Post operative period was uneventfull. **DISCUSSION:**

Malignant mixed mullarian tumor and carcinosarcoma, is a malignant neoplasm found in the uterus, ovaries, fallopian tube and other parts of the body that contains both carcinomatous (epithelial tissue) and sarcomatous (connective tissue) components4. It is divided into 2 types.Homologous in which the sarcomatous component is made of tissues found in the uterus such as endometrial, fibrous and or smooth muscle tissues. Heterologous type (made of tissues not found in the uterus, such as cartilage, skeletal muscle & or bone) Malignant mixed mullerian tumor account for between 2-5% of all tumors derived from the body of uterus and are found predominantly in postmenopausal women with an average age of 66 yrs. Risk factors are similar to those of adenocarcinoma & include obesity, exogenous estrogen therapies & nulliparity.pure rhambdomyosarcoma of uterine corpus can be encountered in 2 distinct histopathological contexts usually as a component of malignant mixed mullerian tumour & exceptionally as a pure heterologous sarcoma.Immunohistochemical analysis is necessary to distinguish between these two entities1. Immunohisto chemical stain positive for CYTOKERATIN &

pelvis & lungs.

PROGNOSIS: Outcome of mixed malignant mullerian tumour is determined primarily by depth of invasion & stage.pelic lymphnodes may show metastases in 17% cases where tumor grossly appears confined to uterus.In Early stage disease 5 year

appears confined to uterus. In Early stage disease 5 year survival rate 40 -50 %. In Advanced disease 5 year survival rate is 25 - 30%5. Recurrence develop in more than one half of cases of uterine sarcoma, even when disease is apparently localized at the time of treatment. Based on evidence ,stage 1 & 2 total abdominal hysterectomy with bilateral salphingo oophorectomy and treatment of pelvic lymphatic's by irradiation or surgery.

MYOGENIN.only the absence of epithelial components, after extensive tumour samoling, can exclude malignant mixed mullerian tumour2. Tumour primarily metastasize – locally in

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