ADENOCARCINOMA OF CERVIX WITH SPECIAL REFERENCE TO VILLOGLANDULAR VARIANT

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ABSTRACT: BACKGROUND: Adeno Carcinoma of Cervix accounts for 15-20% of cervical cancers and villo glandular variant incidence in 3.7-4.8%. AIM: To diagnose the villo glandular adenocarcinoma as it has good prognosis compared to other variants of Adenocarcinoma.

MATERIAL AND METHODS: Retrospective studies done from 2012 to 2014 for a period of three years. RESULTS: 18 cases of Adenocarcinoma were identified. Age group ranging from 25 to 75 years. 7 cases were villoglandular adeno carcinoma and others are endocervical adeno carcinoma – mucinous type. CONCLUSION: Adeno carcinoma accounts for 15-20% of cervical malignancies. Villoglandular adeno carcinoma a distinct sub type of adenocarcinoma occurs predominantly in young women and has an excellent prognosis.

KEYWORDS: Adenocarcinoma, Papillary, Villoglandular.

INTRODUCTION: Adeno Carcinoma constitutes 15 to 20% of Cervical cancers in women well differentiated villoglandular Adeno Carcinoma is a distinct histological sub type occurs predominantly in young women and has an excellent prognosis.

MATERIAL AND METHODS: During the period of three years 2012 to 2014 18 cases of Adeno carcinoma were reported Out of 18 cases 7 were reported as villoglandular variant of adeno carcinoma and rest were endocervical (mucinous) type. All cases were formalin fixed and routinely processed.

RESULTS: During the 3 year period 18 cases of adenocarcinoma were diagnosed. Seven were diagnosed as villo glandular variant age of the patients ranged from 28 years to 65 years. One case is at the age of 28 years. Four cases at 40-50 years age group and two cases reported in 6th decade. All the cases presented with exophytic cervical growth.

DISCUSSION: Villoglandular carcinoma constitutes a rare histological sub type of Invasive adeno carcinoma of the uterine cervix. This form of Adeno Carcinoma usually affects young women and is believed to carry on excellent prognosis.

In our study we reported two cases in post menopausal age group and four cases around 4th and 5th decade. Young and scully first described 13 patients with villo glandular pattern Adeno
carcinoma in 1989.\(^{(1,2)}\) Its incidence has been quoted as 3.7 to 4.8% of the adenocarcinomas of cervix\(^{(3,4)}\) In our institute the incidence is 38.8%.

An association between the use of oral contraceptives and villoglandular adeno carcinoma was suggested by Jones et al.\(^{(5,6)}\) A specific association is not found in our cases.

Grossly all tumors present as friable papillary or polypoid masses. Our patients also had similar presentation.

Microscopically tumors are composed of finger like papillary projections with central fibrovascular core and comprising of cells with moderate atypia and moderate mitotic activity.

Treatment modalities range from cone biopsies to simple and radical hysterectomy\(^{(7,8,9)}\) villoglandular adeno carcinoma exhibits three distinguishing features – exophytic proliferation. Papillary architecture and mild to moderate atypia.

Additional histological sub types such as squamous cell carcinoma and endocervical adeno carcinoma can be associated.\(^{(10,11)}\)

In our study all cases were pure villoglandular adeno carcinoma only with exophytic growth, complex papillary architecture, moderate mitotic activity.

The absence of lympho vascular invasion and nodal metastasis is usual. Because of the inherent good prognosis of their tumor fertility conserving procedures have been suggested.\(^{(1)}\)

Young and Scully recommended that the initial treatment should be a cone biopsy if three criteria were fulfilled:

1) The margins of the cone are clear of the disease.
2) The depth of invasion is no more than 3mm and,
3) There shall be no evidence of lympho vascular invasion on histology.

CONCLUSION: Villoglandular papillary adenocarcinoma accounts for 3.7%-4.8% incidence of adenocarcinoma. It is considered to have a favourable prognosis. However one must be very careful in making its diagnosis and should always be searched for other aggressive subtypes.

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Fig. 1: H & E Complex papillary architecture in villoglandular variant adenocarcinoma

Fig. 2: H & E Papillary structure with Fibro vascular core. Cells show moderate atypia
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**Fig. 3: H & E Endocervical adenocarcinoma-mucinous type**