

MALIGNANT OVARIAN TUMOR

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SUMMARY

This study was conducted to find out the incidence of malignant ovarian tumor in the total histology specimen over one year period (from January 1998 – December 1998). Total of 3095 specimen were received in the histology section of the Pathology Department, Lady Reading Hospital, Peshawar. 155 out of these were ovarian specimen. 36 (39.9%) of the ovarian specimen were malignant i.e. 1.2 % of the total 3095. When this figure was compared with the statistics from IRNUM (Institute of Radiotherapy and Nuclear Medicine) they had received 86 patients during the period for the treatment of malignant ovarian tumor 17.2% of the total female admission.

INTRODUCTION

Ovarian malignancy accounts for the 25% of all gynaecological cancer and 50% of all deaths from cancer of the genital tract. The life time risk of developing Ovarian cancer (1.4 %) is higher than that of Carcinoma cervix (1.25%) or of endometrium (1.1%). The death rate outnumbers both of them combined and according to American Cancer Society has diagnosis to death ratio of 1.6:1.¹ It is depressing to note that initial presentation is at stage-III or IV and at this stage of wide dissemination treatment outcome is extremely poor, (10 % - 5 years survival rate).

Though if diagnosed at stage-I,³ cure rates as high as 98 % can be achieved. The aim of this study is to emphasize the point that efforts should be made to diagnose Ovarian Cancer at an early stage.⁹

MATERIAL AND METHODS

We collected the result of one year histology specimen from the Pathology Department Lady Reading Hospital, Peshawar to find out the incidence of malignant Ovarian tumor and compared it to the Irnum statistics. Following is the result.

Total specimen received for histopathology – 3095.

Ovarian specimen – 155, 4.7 % of the total.

Out of Neoplastics differentiation was as follows

Malignant Ovarian were 1.2 % of the total specimen received for histopathology. When this figure was compared with the Irnum statistics during the same time period (1998), their figure came out to be 17.2 %. Following is the result from IRNUM.

Total Ovarian	Non Neoplastic	Neoplastic
155	64	91
100%	41.9%	59.1%

TABLE – 1

RESULTS

The difference in the figure is because at IRNUM patients are received for Radiotherapy or Chemotherapy from all over the province and also because patients are at first investigated or treated by surgery at the district hospitals and are referred to IRNUM after the diagnosis of malignancy is confirmed by histology or for further treatment after debulking surgery. IRNUM statistics were taken among female admissions only and the incidence nearly equals the international incidence of malignant ovarian tumor. 95% of these cases when diagnosed were in advanced stages.

DISCUSSION

Ovarian tumor is known for the late presentation and adverse outcome, it is prevalent in white women of North European origin in their forties with a peak at 50 – 70 year of age. 3-5% have familial predisposition. 90% of the malignant Ovarian Tumor are epithelial in origin while 10% are sex cord stromal or germ cell in type.

Over the years attempts have been made to improve the prognosis in Ovarian Tumor by early diagnosis² and by improving the

Total	Benign	Malignant
91	55	36
100%	61.1%	39.3%

TABLE – 2

existing therapeutics techniques. There is no proper screening programme available for ovarian cancer.⁴ In came contrail screening for detection of ovarian cancer in the early stage is available but is not cost effective.⁸

Early detection is possible by bimanual pelvic examination, ultrasound⁵ and tumor makers especially Ca-125^{10,11}. High risk population includes woman of more than 45 year age, those living in industrialized area and 1st degree relatives of patients to silk ovarian breast cancer.⁶

Prevention of the disease is also possible by prophylactic oophorectomy in women who are at high risk. It is suggested that laparotomy may be done by an experienced gynaecologist and patient receives adequate chemotherapy and is followed up by tumor markers¹² scans, clinical examination or interval surgery.⁷

CONCLUSION

Although much has been done on this subject but morbidity and mortality is still very high. The diagnosis of ovarian tumour in early stages remained dilemma of the past century. In the new millennium we may be able to strain live screening programme for ovarian cancer. Most of the screening programmes because of their cost, invasiveness and poor acceptability can not be applied to the general population as is in the case of pap smear for carcinoma cervix.

Total female admission (1998)	Malignant Ovarian Tumour
1565	86
100%	17.2%

TABLE – 3

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