ABSTRACT

Background: Abnormal uterine bleeding (AUB) is one of the common complaints in the gynaecology outpatient department. Endometrial sampling by Dilatation and curettage is done to find out the etiology of AUB.

Objectives: The aim of the study is to find out common histopathological diagnosis of endometrial samples of women with AUB and to categorize the causes in relation to age and clinical presentation. This study is also aimed at finding Estrogen and Progesterone receptor expression in non-malignant and malignant endometrium in perimenopausal women with AUB.

Results: The prospective study was done at the Department of pathology, Karpaga Vinayaga Institute of Medical Sciences during the period from June 2013 to August 2015. The commonest age group affected was the perimenopausal age group (41-50 years). The commonest clinical presentation was menorrhagia followed by metrorrhagia. Endometrial samples of all 150 women with AUB were evaluated by histopathological examination. The commonest histopathological finding was simple hyperplasia (21.33%) followed by proliferative endometrium (20.67%), secretory endometrium (14%) and disordered proliferative endometrium (6.67%). Endometrial carcinoma was diagnosed in 3 patients (2%). Endometrial samples of 41 perimenopausal women with AUB were also subjected to immunohistochemical staining to find out the
Estrogen and Progesterone receptor status. Immunohistochemistry revealed the mean of PI values for ER and PR were highest in the proliferative endometrium (91.64% for ER; 94.38% for PR) followed by simple hyperplasia, complex hyperplasia, atypical hyperplasia and endometrial carcinoma (27.5% for ER; 27% for PR).

Conclusion: Endometrial causes of AUB evaluated by histopathological examination of curettings revealed that simple hyperplasia was the commonest diagnosis followed by proliferative and secretory endometrium. Immunohistochemistry results in perimenopausal women show that the estrogen and progesterone receptor expression decreases progressively from proliferative endometrium to hyperplasias to endometrial carcinoma.

Keywords: AUB – Abnormal Uterine Bleeding; ER – Estrogen Receptor; PR – Progesterone Receptor.