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Full Length Research Article

DIFFERENCES OF ENDOMETRIAL BIOPSY RESULTS AMONG POSTMENOPAUSAL AND REPRODUCTIVE AGE GROUPS

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ABSTRACT

The aim of this tudy is to compare the different endometrial histopathologies among cases from postmen opausal to reproductive ages. From January 2011 through November 2013, 114 postmen opausal women and 100 randomly allocated reproductive age group cases were compared, on the basis of endometrial histopathological findings obtained from the archieves of Pathology Department. In our research the most common histopathologic diagnosis reproductive age group is secretoryendo metrium (%25) and also this is the most common result in postmen apausal age (%20.17). Proliferative endometrium is the second most common result in reproductive age and endometrial polyp (%12), endometrially perplasia (%21), hormone replacement therapy changes (%3) and endometrium cancer (%1) case scan be seen in this group of age. Endometrial polyp (%20.17) is the other most common histopathologic result in postmen opausal period and there is a significantly statistically difference in reproductive age (%12). In postmen opausal group endometrial atrophy (%2.64), endometrial polyp (%20.17), endometrialhy perplasia (%31.58), hormone replacement therapy changes (%0.87) and endometrium cancer (%6.14) listed. Endometritis is more common in reproductive age (%16) than postmen opausal age (%8.78). Endometrial hyperplasia, endometrial carcinoma and other pathologies like chronicendometritis, endometrial polyp, hormoneim balance effect and proliferative ndometrium were also diagnosed with accuracy as the patients present with complaints of menorrhagia which compelsclinicianstoinve stigate the cause of disease promptly.

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INTRODUCTION

The ovary and endometrium have atrophy differences through geriatric age and in these group of women vaginal bleeding needs clinical assessment (Özalp 2004). It is important tore assure that only 10% of those presenting with postmen opausal bleeding will have endometrial cancer (Munot 2008). Although it is a worrying symptom, there are far more likely benign causes. Nearly 90% of women with endometrial cancer presents with vaginal bleeding. The risk of malignancy associated with an episode of bleeding increases with age: only 1% of women at age 50 compared with %25 at age of 80 years will have the disease (Munot 2008, Schwarzler 1998). The aim of this study is to compare the different endometrial histopathologies among cases from postmen opausal and reproductive age group (15-49 ages).

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MATERIALS AND METHODS

Recruitment took place from January 2011 through November 2013, postmen opausal women and reproductive age group cases were compared on the basis of endometrial histopathological findings obtained from the archieves of Pathology Department. Chi-square method and Fisher's exact tests were used for most of the analysis. Statistical analysis was performed using SPSS 2007 version. Dilatation curettage materials due to termination of pregnancy and hysterectomy materials were not included to research specimens. Endometrial curettage, dilatation and curettage biopsy derived from pipelle materials were mainly included to probe. PSPS for statistical analysis (0.8.1) computer program was used to package. Non-parametric findings were evaluated with Fisher's exactchi-square test. P<0.05 were considered statistically significant

RESULTS

The meanage of postmen opausal group is 54.46±5.54 and reproductive age is 41.94±6.07. The most common histopathologic diagnos is in reproductive age is secretory endometrium (%25) and this is also the most common result in postmen apausal age (%20.17) (p=0.39) (Table Proliferative endometrium is the second most common result in reproductive age and endometrial polyp (%12), endometrial hyperplasia (%21), hormone replacement therapy changes (%3) and endometrium cancer (%1) rates verified in this age group. Endometrial polyp (%20.17) is the other most common histopathologic result in postmen opausal age and there is slightly statistically difference in reproductive age (%12) (p=0.11). In postmen opausal group we have endometrial atrophy (%2.64), endometrial polyp (%20.17), endometrial hyperplasia (%31.58), hormone replacement therapy changes (%0.87) and endometrium cancer (%6.14) cases. Endometritis is more common in reproductive age (%16) than postmen opausal age (%8.78) (p=0.11).

Table 1. Endometrial histopathologic diagnosis of postmen opausal and reproductive age groups

HistopathologicDiagnosis	n	%	n	%	p value
Atrophicendometrium	0	0	3	2.64	
Proliferativeendometrium	20	20	11	9.65	0.03
Secretoryendometrium	25	25	23	20.17	0,39
Homoneeffect	3	3	1	0.87	0.25
Endometritis	16	16	10	8.78	0.11
Endometrialpolyp	12	12	23	20.17	0.11
Endometrialhyperplasia	21	21	36	31.58	80,0
-Simple	19	19	21		
-Complex	2	2	15		
Malignancy	1	1	7	6.14	0,04
TOTAL	100	100	114	100	

Reproductive Age (15-49 age)

Postmenopausal Age (≥50 age)

DISCUSSION

In this study the most common endometrial diagnosis in postmen auposal age is secretory endometrium and endometrial polyp. Endometrial cancer results quiter are in our study. In reproductive age, the most common endometrial diagnosis are benign conditions. Endometrial atrophy (%60-80), endometrial polyp (%2-12), endometrial hyperplasia (%5-10), hormone replacement therapy changes (%1.5-25) and endometrium cancer (%10-17) were the most common endometrial pathologies found from postmen opausal women. 1,4. Özalp S et al. have findings of endometrial atrophy (%10), endometrial polyp (%32), endometrial hyperplasia (%4), and endometrium cancer (%49) rates in geriatric age goups. In our study we have findings of endometrial atrophy (%2.64), endometrial polyp (%20.17), endometrial hyperplasia (%31.58), hormone replacement therapy changes (%0.87) and endometrium cancer (%6.14) cases. Cancer and endometrial hyperplasia rates of our study are significantly different in postmen opausal age groups. With the increased use of ultrasound, hysterosonography, and hysteroscopy in the

evaluation of women with abnormal uterine bleeding or postmen opausal bleeding, the diagnosis of endometrial polyps has become more frequent in the last few years (Lucia 2011). Polyps are found in upto 12% of asymptomatic women in routine examinations and the prevalence rate of endometrial polyps ranges from 10% to 40% in women with abnormaluterin bleeding (Anastasiadis, 2000, Clevenger-Hoeft 1999, Goldstein 1997, Nagele 1996, Van Bogaert 1998, Dreisler 2009, Lieng 2009). Özalp et al. researches 63 (%31,5) prolife rative endometrium, 46 (%23) secretory endometrium, 22 (%11) endometrial polyp, 8 (%4) endometrial hyperplasia, and 1 (%0.5) endometrium cancer rates in 200 reproductive age cases. In our study we have 20 (%20) prolife rative endometrium, 25 (%25) secretory endometrium, 12 (%12) endometrial polyp, 21 (%21) endometrial hyperplasia, and1 (%1) endometrium cancer (%1) rates in reproductive age group. Endometrial biopsy is found most accurate process in diagnosing endometrial carcinoma and having same accuracy of endometrium material obtained from hysterectomy operation (Saadia 2011). Endometrial hyperplasia, endometrial carcinoma and other pathologies like chronic endometritis, endometrial polyp, hormoneim balance effect and prolife rative endometrium were also diagnosed with accuracy as the patients present with complaints of menorrhagia which compels clinicians to investigate the cause of disease promptly.

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