Comparative study of two- dimensional, three- dimensional ultrasound ,hysteroscopy and histopathological examination in detecting uterine lesions in cases of perimenopausal bleeding

THESIS

Submitted by

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ABSTRACT

This is a comparative study carried on 35 patients complaining of perimenopausal bleeding in the age group between 40 – 55 yrs old.

Two dimensional u/s,three dimensional ultrasound followed by hysteroscopy followed by hiostopathological examination for each patient.

From our study , hysteroscopy is he most sensitive and accurate in the diuagnosis of all lesions

Key word

Dimensional

Histopathological

Perimenopausal

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THANK YOU

DEDICATION

I would like to dedicate this work to the soul of my father, who would Have been very happy if he sees it, I would like also to dedicate it to my mother who tolerated me a lot and to my fiancée for his great encouragement.

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LIST OF ABBREVIATIONS:

2D U/S	Two dimensional ultrasound
3D U/S	Three dimensional ultrasound
DNA	Deoxyribonucleic acid
LH	Lutenizing hormone
MMPs	Matrix metalloproteinases
TIMP	Tissue inhibitor of matrix metalloproteinases
VEGF	Vascular endothelial growth factor
mRNA	microsomal ribonucleic acid
TGF	Transformation growth factor
GDFs	Growth differentiation factors
TNF	Tumor necrosis factor
COX	Cycloxygenase
PGE	Prostaglandin E
WHO	World Health Organization
F.M.P.	Final menstrual period
F.S.H.	Follicle stimulating hormone
STRAW	Stages of the reproductive aging workshop
DUB	Dysfunctional uterine bleeding

C.B.C.	Complete blood count
CT	Computer tomography
MRI	Magnetic reasonant imaging
D&C	Dilatation and curettage
ER	Estrogen receptors
PR	Progesterone receptors
MI	Mitotic index
HPF	High power field
AP1	Activator protein 1
IGF1R	Insulin-like growth factor 1 receptor
HPV	Human papilloma virus
EIN	Endometrial intraepithelial neoplasia
VPS	Volume percentage stroma
AJ	Adherin junction
TJ	Tight junction
PTEN	Tumor suppressor phosphatase and tensin homologue in chromosome ten
D.M.	Diabetes milletus
ESC	Endometrial serous carcinoma
UPSC	Uterine papillary serous carcinoma

FIGO	International federation of gynecology and obstetrics
TVS	Transvaginal ultrasound
ROI	Region of interest
RI	Resisitivity index
VFI	Vascularization flow index
CO_2	Carbon dioxide
NaCl	Sodium chloride
Hg	Mercurary
STEP-w	Size,topography,extension of the base,penetration,lateral wall
SIS	Saline infusion sonohysterography
MHz	Mega hertz
SD	Standard deviation
NY	New York
USA	United States of America
VOCAL	Virtual organ computer aided analysis
VI	Vascularization index
FI	Flow index
AUB	Abnormal uterine bleeding

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