

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار





بالرسالة صفحات
لم ترد بالأصل





بعض الوثائق الأصلية تالفة



رسالة ماجستير
 في التوضيح بالدراسة
 لخدمة المجتمع والمراكز
 البحثية والأكاديمية
 أحمد حسني

Vaginal Cytology and Bone Mineral Density in Postmenopausal Women

Thesis

رسالة

**Submitted In Partial Fulfillment For The
Master Degree In Obstetrics And Gynecology**

**By
Ahmed Hussein Salama**

**M.B.,B.CH. Resident of Obstetrics & Gynecology
Ain Shams University Maternity Hospital**

Supervised by

Prof. Ahmed Rashed

**Prof. of Obstetrics & Gynecology Faculty of
Medicine - Ain Shams University**

68129

A. Rashed

Assist. Prof. Amr Abd El Aziz Nadim

**Assistant Professor of Obstetrics & Gynecology
Faculty of Medicine - Ain Shams University**

Amr Nadim

**Faculty of Medicine
Ain Shams University
2002**



618.15
 A.H.
 Amr Abd El Aziz Nadim





To my parents

Acknowledgmen

My deepest gratitude goes to all those who brought this work into being.

Prof.Dr.Ahmed Rashed (Prof. of Obstetrics & Gynecology Faculty of Medicine - Ain Shams University) his invaluable super vision enabled me to complete this work.

Assist.Prof.Amr Abd El Aziz Nadim(Assistant Professor of Obstetrics & Gynecology Faculty of Medicine - Ain Shams University) who dedicated much time and effort to fulfill my research.

Special thanks to **Dr. Mona El Sheshiny** consultant cytopathologist for her extreme kindness & help to do all the cytology work.

Also many thanks to all the staff working in the Women Health Center-Heliopolis who were very supportive.

List of tables

	Title	Page
Review	Table 1: Serum sex steroid concentration before and after natural or surgical menopause.Quoted from (HRT, Whitehead and Godfree, 1992).	11
	Table2: Concentration of Serum Level of Androgen in Premenopausal and Postmenopausal Women. Quoted From (Principles and Practice of Clinical Gynecology, Nathan G Kase, 1997).	12
	Table 3: Principal Hormone Changes Following Loss of Ovarian Function. Quoted From (HRT, Whitehead and Godfree, 1992).	13
Results	Table (1): Shows the clinical characteristics of the study population in the three groups I, II, III.	72
	Table (2): Shows the Bone Mineral density at the lumbar spines expressed in gm/cm2 and T score in the 3 groups mean \pm SD, t value p value and the significance between the groups.	75
	Table (3): Shows the Bone Mineral density at the lumbar spines expressed in gm/cm2 and T score in the 3 groups mean \pm SD, t value p value and the significance between the groups.	77

Table (4): Shows the Bone Mineral density at the ultra distal end at radius expressed in gm/cm² and T score in the 3 groups mean \pm SD, t value p value and the significance between the groups.

Table 5 : Repartition of normal, osteopenic, and osteoporotic women

Table (6): The karyopyknotic index values in the 3 groups.

List of figures

Title	Page
Fig. (1): Sample BMD as determined from AP spine L1-L4 is 1.115g/cm ² with a T-score -0.3. Left femur with T-score of 0.3 and left forearm T-score -0.1. this patient is considered normal according to world health organization (WHO) guidelines. Fracture risk is low.	62
Fig. (2): Sample BMD at ultradistal end of radius shows BMD 0.427 g/cm ² and Tscore -0.2 and considered normal BMD according to WHO guidelines.	63
Fig. (3): Sample BMD at femur shows BMD 1.04 g/cm ² and Tscore -0.5 and considered normal BMD according to WHO guidelines	64
Fig. (4): Sample BMD at lumbar spines shows BMD 1.01 g/cm ² and Tscore -0.3 and considered normal BMD according to WHO guidelines.	65
Fig. (5): Sample BMD at lumbar spines shows BMD 1.04 g/cm ² and Tscore -1.3 and considered oteopenia of lumbar spines according to WHO guidelines.	66
Fig. (6): Sample BMD at lumbar spines shows BMD 0.87 g/cm ² and Tscore -2.7 and considered osteoporosis of lumbar spines according to WHO guidelines	67

Fig. (7): Postmenopausal pap smear showing normal KPI	70
Fig. (8): Postmenopausal pap smear showing low KPI and was found to be osteoporotic	71
Fig (1): shows the age in years among the three groups	73
Fig. (2): shows the body mass index among the three study groups	74
Figure (3): the bone mineral density at the lumbar spines L2-L4 as measured in gm/cm^2 among the three groups	76
Fig. (4): shows the BMD expressed as t score at the lumbar spines	76
Fig. (5): the BMD at the femur neck as expressed in gm/cm^3	78
Fig. (6) shows the BMD at the femur neck expressed as score among the three study groups	78
Fig. (7): the BMD at the ultra distal end of radius among the three study groups in gm/cm^2	80
Fig. (8): shows BMD at the ultra distal end of radius expressed as t score among the three study groups	80