



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



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شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

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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



HANAA ALY



RELATION BETWEEN CIRCULATING VITAMIN K2 LEVEL AND OSTEOPOROSIS IN POST- MENOPAUSAL WOMEN

Thesis

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Medicine, Rheumatology and Rehabilitation*

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العلاقة بين مستوى فيتامين ك ٢ في الدم وهشاشة العظام في النساء بعد انقطاع الطمث

رسالة

توطئة للحصول علي درجة الماجستير في الطب الطبيعي
والروماتيزم و التأهيل
مقدمة من

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٢٠٢٠

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

لسبب انك لا تعلم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

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LIST OF ABBREVIATIONS

AACE	:	American Association of Clinical Endocrinologists
ACTIVE	:	Abaloparatide Comparator Trial in Vertebral Endpoints
AD	:	Alzheimer's disease
ADL	:	Activity of daily livings
ADRB1	:	Adrenoceptor Beta 1
ALP	:	Alkaline Phosphatase
ALT	:	Alanine aminotransferase
AST	:	Aspartate aminotransferase
AUC	:	Area under curve
BMC	:	Bone Mineral Content
BMD	:	Bone mineral density
BMI	:	Body Mass Index
BMPs	:	Bone morphogenetic proteins
BP	:	Bisphosphonates
BSP	:	Bone sialoprotein ""
BTMs	:	Bone turnover markers
CD	:	Celiac disease
CKD	:	Chronic kidney disease
CO	:	Carboxylated osteocalcin
COLIA1	:	Collagen type I alpha1
CRP	:	C- reactive protein
CTX	:	Cterminal telopeptide type-1 collagen
CTXA	:	Computed tomography X.ray absorptiometry
CVD	:	Cardiovascular disease
DEXA	:	Dual-energy X-ray absorptiometry
dp-ucMGP	:	Dephosphorylated-uncarboxylated MGP
ELISA	:	Enzyme-Linked Immunosorbent Assay
EMA	:	European Medicine Agency
ESR	:	Erythrocyte Sedimentation Rate
FABER	:	Flexion in abduction and external rotation
FDA	:	Food and Drugs administration

List of Abbreviations

FGF23	:	Fibroblast growth factor 23
FNW	:	Femoral Neck Width Length
FPT	:	Fracture Prevention Trial
FRAX	:	Fracture Risk Assessment Tool
Gas6	:	Growth arrest-specific protein 6
GDF15	:	The growth differentiation factor 15
GGCX	:	γ -glutamylcarboxylase
GH	:	Growth hormone
GPCR	:	G Protein-Coupled Receptor 87
GSK3β	:	Glycogen synthase kinase 3 β
HRpQCT	:	High-resolution peripheral quantitative computed tomography
IFN-γ	:	Interferon-gamma
IGF2	:	Insulin-like growth factor-2
IL	:	Interleukin
IM	:	Intramuscular
IOF	:	International Osteoporosis Foundation
IRAK1	:	Interleukin-1 receptor-associated kinase 1
IU	:	International units
KO	:	Vitamin K-epoxide
LDLR	:	Lipoprotein receptors
LOEP	:	Local osteo-enhancement procedure
LRP5/6	:	Low-density lipoprotein receptor-related protein 5or6
LS	:	Lumbar spine
MAT	:	Marrow adipose tissue
MC3T3-E1	:	Mouse Osteoblastic Cells
M-CSF	:	Macrophage colony-stimulating factor
MGP	:	Matrix-Gla-protein
MiRNAs	:	Micro ribonucleic acids
MRI	:	Magnetic resonance imaging
MSCs	:	Mesenchymal stem cells
NAM	:	National Academy of Medicine
NEO1	:	Neogenin 1
NFκB	:	Nuclear factor- κ B kinase

List of Abbreviations

NICE	:	National Institute for Health and Care Excellence
NOF	:	National osteoporosis foundation
NOGG	:	National Osteoporosis Guideline Group
OC	:	Osteocalcin "
OPG	:	Osteoprotegerin
OCAR	:	OC associated receptor
OSTF1	:	Osteoclast Stimulating Factor 1
PACE4	:	Paired amino acid converting enzyme 4
p-cMGP	:	Phosphorylated-carboxylated MGP
PGE2	:	Prostaglandin E ₂
PHPT	:	Primary hyperparathyroidism
PICP	:	Procollagen type I carboxyterminal propeptide
PINP	:	Procollagen type I aminoterminal propeptides
PMO	:	Post menopausal osteoporosis
PRGP1	:	Proline-rich Gla proteins
PTH	:	Parathyroid hormone
PXR	:	Pregnane X receptor
QCT	:	Quantitative computed tomography
QUS	:	Quantitative ultra sound
RANK	:	Receptor Activator of Nuclear factor-κB
Runx2	:	Runt-Related transcription factor 2
SBP	:	Systolic blood pressure
SD	:	Standard deviation
SERM	:	Selective Estrogen Receptors Modulators
SLE	:	Systemic Lupus Erythematosus
SOST	:	Sclerostin
SCs	:	Stem cells
STC2	:	Stanniocalcin 2
subQ	:	Subcutaneous
SXR	:	Steroid heterogene receptor -
TBS	:	Trabecular bone score
TGF β	:	Transforming growth factor β
TMG3	:	Transmembrane Gla proteins
TNFα	:	Tumor Necrosis Factor alfa

List of Abbreviations

TRAF6	:	Tumor necrosis factor receptor associated factor 6
TRAP	:	Tartrate-resistant acid phosphatase
TRAP +	:	Tartrate-resistant acid phosphatase positive
TSH	:	Thyroid Stimulating Hormone
vBMD	:	Volumetric bone mineral density
VDR	:	Vitamin D receptor
VKAs	:	Vitamin k anatagonists
VKDPs	:	Vitamin k dependent proteins
VKOR	:	Vitamin K oxidoreductase
VKORC1	:	Vitamin K epoxide Reductase Complex subunit 1
VKORC	:	Vitamin K Epoxide Reductase Complex
VKORC1L1	:	VKORC1-like 1
VSMCs	:	Vascular smooth muscle cells
Who	:	World health organization
Wnt	:	Wingless related integration site

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