ELECTRONIC GUIDE TO THESES APPROVED BY PHYSICAL THERAPY DEPARTMENT FOR OBSTETRICS AND GYNAECOLOGY AND ITS SURGERY

PREPARED BY NERVEEN ABD EL SALAM ABD EL KADER AHMED

Physical Therapy Department for Obstetrics and Gynaecology and Its Surgery

Doctoral Degree 2017

Author	:	Nabil Fawzy Ayad Meseha
Title	:	Systematic versus Topical Using of Calcium and Phosphate in
		Treatment of Osteoporosis in Post menopausal Women
Dept.	:	Physical Therapy Department for Obstetrics and Gynaecology
		and its Surgery.
Supervisors	1.	Hanan El Sayed El Mekawy
	2.	Adel Farok Ebrahem El Begawy
	3.	Laila Rashed
Degree	:	Doctoral.
Year	:	2017.
Abstract	:	

This study was conducted to determind the efficacy of systematic versus topical using of Calcium and Phosphate in treatment of osteoporosis in post-menopausal women. Thirty volunteer osteoporotic postmenopausal women participated into this study. Their ages ranged from 55 to 65 years old, their parity ranged from 1 to 3, their body mass index (BMI) < 30 kg/m2 and all of them were at least 3 years postmenopause. The patients characterized by law bone density with T score of DEXA less than -1.Patients were divided randomly into two equal groups. Group (A) (Study group): 15 patients who received topical Calcium and Phosphate through iontophoresis 30 min /session,3times weekly for 12 weeks, group (B) (Control group): 15 patients who received their routine medical treatment including systematic supplimentation of Calcium and Phosphate for 12 weeks Dual energy X - ray Absorptiometry (DEXA) for measurement of bone mineral density (BMD), Present pain intensity (ppi) scale, Questionnaire for assessment of quality of Life and Laboratory analysis of Calcium and Phosphate (for both groups) before starting and after the end of the treatment program (3months) as well as after 3 months of treatment. The obtained results showed a highly statistically significant (P<0.01) increase in BMD of femur and L2-L4 immediately after treatment as well as after 3 months of re-evaluation in group (A)more than group(B). Also, there was a statistically highly significant reduction in bone pain, improve the quality of life in its physical ,mental and social levels and increase Calcium and Phosphate contents in group (A)more than group(B). Accordingly, it could be concluded that topical using of Calcium and Phosphate is very effective, noninvasive, safe, easy to perform, simple and successful for treatment of osteoporosis in postmenopausal women.

1.	Topical treatment of Calcium
2.	Osteoporosis
3.	Calcium
4.	postmenopausal women
5.	Phosphate
6.	Women in postmenopausal
:	000.000.
:	170 p.
:	العلاج المنهجى العام مقابل الموضعى باستخدام أيونات الكالسيوم و الفوسفات لعلاج
	هشاشة العظام في النساء في فترة ما بعد إنقطاع الطمث.
:	5449-5450.
	3. 4. 5. 6.