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(NJC)

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(44)

(66)

(43)

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Abstract

The purpose of this research is to study the biochemical change in calcium, inorganic phosphate, albumin and alkaline phosphatase activity in the blood in pregnant and lactating women during normal pregnancy and lactation in Mosul City ,This study done on (66)specimens of blood of pregnant women and (44) specimens of blood of lactating women and (43) specimens of healthy non pregnant non lactating women as control group ,Results showed that there is gradual significant decrease in level of calcium, inorganic phosphate, albumin of pregnant women and gradual significant increase in their blood levels in lactating women compared with control group ,While the results showed that there is a high significant increase in alkaline phosphatase activity in all groups (pregnant and lactating women) compared with control group.

Key Words: Pregnancy, lactation, calcium, inorganic phosphate, albumin, alkaline phosphate.

30)
80%
(9) (1)
(2)
(10)
(11) (3)
(12)
glomerular filtration rate (13)
GFR
(14)

Parathyroid
hormone-related protein (PTHrp

D (15)
1,25dihydroxy vitamin D⁽¹⁶⁾
(18,17)
240-400
6 50
(19)
(20)
4-6%
6
(22,21)
(23)
(25,24)

estrogen (4)
calcitonin (5,6)
1,25 dihydroxy D
(7) vitamin D (8)
calcium-binding) protein
(

250-300

()
(23) (26) / 300
() (28,27)
(43) (21) (29)
5 (22)

⁽³⁰⁾. Osteoporosi

15 / 300

24
(35-18)

(31)
(33) (32)
(34)

Standard

Kits
(Bio Mereiux)

(66)

(RANDOX)

()

()

(T-test)

(25)

()

() (22)

(. $p \leq 0.05$)

(44)

(

(19)

)

:

: (1)

: (1)

\pm 24/	\pm 100/	
9.01 \pm 125	0.175 \pm 9.8	
6.85 \pm 04***	0.147 \pm 9.4**	
4.39 \pm 312***	0.126 \pm 8.8***	
11.05 \pm 398***	0.121 \pm 8.0***	
10.80 \pm 85.83***	0.176 \pm 9.9	
12.36 \pm 57.1***	0.183 \pm 0.4***	

(0.01)

**

(0.001)

(2)

:

:(2)

$\pm 100/$	
0.176 ± 3.6	
$0.147 \pm 3.2^{**}$	
$0.103 \pm 3.0^{***}$	
$0.13 \pm 2.7^{***}$	
0.16 ± 3.7	
$0.194 \pm 3.9^{**}$	

(0.01)

**

.(0.001)

(3)

:(3)

$\pm 100/$	
0.16 ± 4.1	
$0.13 \pm 3.6^{***}$	
$0.127 \pm 3.0^{***}$	
$0.121 \pm 2.8^{***}$	
0.163 ± 4.0	
$0.172 \pm 4.6^{***}$	

(0.001)

(4)

:(4)

\pm /	
3.97 ± 74.5	
$3.48 \pm 108^{***}$	
$2.33 \pm 152^{***}$	
$4.70 \pm 193^{***}$	
$2.96 \pm 169^{***}$	
$2.04 \pm 161^{***}$	

(0.001)

(1)

(21)

(40)

(36,35,9)

(37)

50%

(12)

(4)

(6)

(38,14)

) PTHrP

(-

(42,41)

osteophosis

(39,23)

(30)

(2)

(46,8)

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