

EFFECT OF ALPHA LIPOIC ACID ON ALVEOLAR RIDGE RESORPTION IN RATS' JAWS UNDER THE EFFECT CAUSED BY SALTS OF HEAVY METALS

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SUMMARY

Osteometric examination of alveolar ridge of rats' jaws during excessive inflow of salts of heavy metals was carried out. It was established that alpha lipoic acid facilitates reduced loss of bone tissue.

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[1, 2, 4].

[1, 3].

[7], [6].

[5, 8].

ALA

[9].

ALA

90

29

42

(ZnSO₄ x 7H₂O) - 5 / , (CuSO₄ x 5H₂O) - 1 /

(MnSO₄ x 5H₂O) - 0,1 / ,

(Pb(NO₃)₂) - 0,1 / , (K₂Cr₂O₇) - 0,1 / ,

(FeSO₄) - 10 / . (n=19),

100 / 1

30,60 90

20 I 2001 (.).

29,4% (=9 -06).
 23,4% (=0,003)
 (=2 -05).
 III
 12,0% (>0,05).
 (11,5%, >0,05)
 1,5%, >0,05).
 60
 (U- ,W- ALA III
) .
 ≤ 0,05.
 25,4% (=9 -07)
 34,4% (=0,006)
 12,8% (=0,03)
 16,4% (>0,05)
 ALA
 III
 5,9% (>0,05),
 7,0% (>0,05)
 30
 (±m)

	n=29	n=42	n=19	* ** ***
30	0,507±0,020	0,804±0,034	0,568±0,037	* 8E-14 ; ** > 0,05; *** 9E-06
60	0,617±0,028	0,962±0,041	0,718±0,032	* 5E-12 ; ** > 0,05; *** 9E-07
90	0,828±0,036	0,981±0,047	0,826±0,031	* 0,03; ** > 0,05; *** 0,007

90 ALA
 II
 III
 I
 15,8% (=0,007), II- ALA
 33,7% (=0,02),
 17,1% (=0,02).
 0,2% (>0,05)

[9],

1.14.01.22

ALA

[7].

2.

[1], 2010.- 1.- .15-18.

3.

ALA,

2 [6].

4.

ALA

[5, 8].

2011.- 4.- .9-11.

5.

ALA

[2, 4].

ALA.

6. Alpha-Lipoic acid inhibits inflammatory bone resorption by suppressing prostaglandin E2 synthesis / H. Ha, J. H. Lee, H. N. Kim [et al.] // J Immunol. - 2006. - Vol. 176, 1. - P. 111-117.

7. Alpha-lipoic acid inhibits TNF-alpha-induced apoptosis in human bone marrow stromal cells / C. H. Byun, J. M. Koh, D. K. Kim [et.al.] // J Bone Miner Res. - 2005. - Vol. 20, 7. - P. 1125-1135.

8. Efficacy of lycopene in the treatment of gingivitis: a randomised, placebo-controlled clinical trial / R. V. Chandra, M. L. Prabhujji, D. A. Roopa [et al.] // Oral Health Prev Dent. - 2007. - Vol. 5, 4. - P. 327-336.

9. Lipoic acid: a novel therapeutic approach for multiple sclerosis and other chronic inflammatory diseases of the CNS / S. Salinthon, V. Yadav, D. N. Bourdette, D. W. Carr // Endocr Metab Immune Disord Drug Targets. - 2008. - Vol. 8, 2. - P. 132-142.