576.3/7:591.147.6:599.323.41:533.6.013.8:616-008.9

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## MORPHOFUNCTIONAL CHANGES IN THE IMMATURE RAT'S SUPRARENAL GLANDS ON SYSTEMATIC EXPOSURE TO HYPERGRAVITY AND UNDER CORRECTION BY GLUTARGIN

G.A. Moroz, S.A. Kutya

## **SUMMARY**

Using light and electron microscopy morphofunctional changes in the suprarenal glands of 24 immature male Wistar rats were examined. Rats were subjected to systematic exposure of hypergravity (9 g) during 30 days. Compensatory circulatory changes and moderate dystrophy of cortical and medullary endocrinocytes are revealed. Increased number of young cells within zona fasciculata on the background of active endocrinocytes indicates sufficient adaptation reserves of suprarenal gland. Using of glutargin to increase adaptability of an organism, exposed to systematic hypergravity, provides some corrective effect on both parenchymatous and stromal elements of the gland.

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[6,7,8].

[1,2].

[3,4].

[9g).

30

30

24

(9g).

30

30

4

120

4

120

4

120

9g.

-2/500.

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                        [5].
                                                       -125
       -1
                                                Olympus X31.
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                                    30
                                                   ImageJ
                         -1,
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                                                              5% ( <0,05
                                                                               -*).
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                                                              2,5
                                                   2,83%)
      4-6
                                                    . 1).
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                                  (30-60)
                                            ),
                            ( %)
                                                                        (M±m)
    -1
             9,89\pm0,22
                            90,11±1,52
                                             9,27±0,13
                                                              76,01±1,57
                                                                               14,72±0,41
    -2
            10,99±0,22
                            89,01±0,69
                                             10,47±0,47
                                                              76,53±1,17
                                                                               13,00±0,63
            7,34±0,24*
                                             8,02±0,15*
                                                             80,78±1,02*
                                                                               11,21±0,54*
                            92,66±0,75
                           90,85±0,24*
            9,15±0,23*
                                             8,51±0,25*
                                                             79,60±0,20*
                                                                               11,89±0,32
              .*- <0,05
                  13,50%*
                                                                                   ( 9,62%)
                                                                             . 2).
                                                                                           . 3).
                                                                              32,31%*.
  7,62%*.
               6,27%*.
                                     31,39 %*.
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23,88%\*. - , , -

,

2 ( %)

(M±m)

			- 4000 <sup>2</sup>
-1	63,65±1,60	36,35±1,60	11,42±0,43
-2	64,29±1,32	35,71±1,32	12,00±0,22
	60,15±2,23	39,85±0,84	15,00±0,69*
	56,89±2,12*	43,11±0,54*	13,17±0,26*

. \* - <0,05

( %) (M±m)

-1	10,84±0,45	89,16±2,35	5,05±0,23
	7,67±0,38	92,33±1,62	5,36±0,25
-2	13,89±0,31	86,11±0,95	4,97±0,17
	9,47±0,39	90,53±2,11	5,08±0,23
	18,38±0,77*	81,62±2,31*	4,96±0,15
	9,95±0,44*	90,05±1,38	7,10±0,30*
	15,22±0,38	84,78±0,27	5,30±0,21
	10,61±0,25*	89,39±1,45	5,35±0,26

. \* - <0,05

32,31%\*.

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23,88%\*. -

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  2,06%* 16,72%*
   .
4,01%*( . .1).
           18,76%*.
20,74%*,
    ( . .2).
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