ADVERSE EFFECTS OF ALLOXAN ON THE BODY OF EXPERIMENTAL ANIMALS

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Sugary diabetes treatment modern methods hypo - and hyperglycemia normal in the blood glucose to the level and diabetes complications development complete prevent to take opportunity does not give. β- cells replacement (stomach) under diaper or β- cells transplant to do) complications take comes , forever immunosuppressive therapy demand does and insulin independence every always also is not achieved , as well as donors noticeable at the level shortage available . Close until then endocrine part absolutely irreparable organ calculated stomach under diaper tissue update to the problem new look and reparative regeneration encouragement methods diabetes treatment and development prevent to take new methods open gives .

It is known that alloxan in diabetes insulin shortage tissue proteins of decomposition increase in amino acids to the blood entrance to increase and general blood nitrogen to increase take Lipids exchange characteristic violation blood in serum low dense increase in the amount of lipoproteins (ZPLP) up to 41.7% (normally up to 19.9%), triglycerides up to 1.03 mmol / l (normally up to 0.47 mmol / l) is considered significant at $p < 0.05$, as well as high dense from 38.1% (normal - 12.8%) of the content of lipoproteins (ZYLP) . decrease observed .

Experimental animals stomach under diaper cell location alloxan from given one week later , stomach under diaper channels nearby Langerhans of the islets regeneration observed . Island in tissues all kind of cells Endocrine cells regeneration source small stomach under diaper channels of the wall cells are , they are undamaged cells by separated growth factors under the influence more begins and endocrine to cells is differentiated . New harvest was islands number than usual less was . Stomach under gland , drug 14 days from date of issue Later , Langerhans of the islets hypertrophy observed , their to oneself typical volume 0.3458 ± 0.025 organization did , this 2.67 times normal less and untreated to animals 5.77 times more than a lot That's it with together , of the islets size 1.88 times more than usual big was (on the island) of cells average number was 77.25 ± 1.42), which correction since it was done then on the 14th

day , a new harvest was islets normal size with comparable to the dimensions achieved shows .

Literature

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