



## Effective treatment method in treatment of diabetes mellitus 1type (DM1T) by implantation of islet cultures.

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### ABSTRACT:

**Background:** According to the World Health Organization (WHO), in 2016, about 442 million people in the world suffered from diabetes mellitus. According to forecasts, by 2030 diabetes will be the seventh cause of death worldwide.

**Materials and methods:** In the Cell therapy department, Institute of Immunology and human genomics Academy of Science of Republic of Uzbekistan has developed an effective method of surgical treatment of DM by free implantation of islet cells of the pancreas cultures and introduced into clinical practice.

**Results:** The therapeutic effect of transplanted islet cells of pancreas in DM patients was assessed by the dynamics of the symptoms of diabetes. Disease of blood, serum, the need for exogenous insulin, the manifestation of macro- and microangiopathy. The dynamics of clinical manifestations of diabetes was studied separately in patients who received insulin before transplantation in a dose of less than or more than 40 units. As the examination of patients with implants of the islet cells of pancreas showed, within 9 months after the transplantation practically all disappeared clinical manifestations of the diabetes itself and its complications.

**Conclusion:** Thus, summing up the clinical results of islet cell transplantation along with the achievements, we noted that the problem bears in itself many more questions that await their resolution. There are also difficulties in isolating islet cells, insufficient number of cadaveric pancreas and good immunological protection.



### Biography:

Nodirjon Ruzimurodov, MD, researcher of the department of Cell therapy of the Institute of Immunology and human genomics Academy of Science of Republic of Uzbekistan. He graduate the master's degree in Tashkent medical academy. He is the speaker of Congress Speaker of 3rd Joint Meeting of the Turkish Transplantation Society and World Transplantation Society, ESOT 2019, IAPRD, APASL 2018, 3rd Baku International Medical Congress for students and young doctors, International Scientific Conference #SCIENCE4HEALTH2017 and etc.

### Publications:

1. Improvement of allergic diagnostics of animals under the conditions of Uzbekistan
2. Distinctive IR-Spectroscopic Features of Functional Groups of Low-Grade Phosphorites After Microbiological and Acid Processing
3. Restoration and reproduction of useful brucellosis strains collection for industry and production
4. NATURAL MICROFLORA AND CHARACTER OF MIGRATION OF NATURAL PHOSPHORUS COMPOUNDS.
5. Behaviour in Pakistan of some local wheat varieties to loose smut.

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