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Use of the new feedback for insulin therapy (ADD-CIT) before and after pancreas-kidney transplantation

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Continuous differential measure of the body temperature gradient (Dt =deep–superficial temperatures) and the use of its evolution for adequate insulin delivery monitoring was successfully tested in experiments and USI patients (PDT-2016). The aim of the present study was to extend the method and the f ADD-CIT device use to diabetic patients with severe glucose metabolism disturbances before and after pancreas-kidney transplantation. 104 investigations were provided on 83 consenting informed patients (17-60 years, DM-1, terminal nephropathy, hemodialysis, and no previous transplantation treatment): 42 before and 62 after pancreas-kidney transplantation. Blood glucose and lactate, Dt evolution were analyzed. Before transplantation, ADD-CIT treatment (applied when traditionally performed insulin therapy was no more efficient) has allowed some patient condition improvement unless radical treatment could be realized (mean glucose level decrease from 17.2 ± 5.18 to 11.6 ± 7.29 mM/l within 3 hours). After transplantation, during 39 sessions the programmed insulin pump was deactivated, corroborating surgery success (stable glucose level 6.7 ± 3 mM/l and Dt 3 hour observation). Only 23 CIT sessions were provided ever corresponding to transplant failure. Post-surgery Dt values were generally decreased with frequent negative ciphers maybe explained by the operation trauma influence. So, in spite of the absence of control patients without ADD-CIT treatment (ethically uncomfortable), the “energetic” feedback for insulin therapy of critical diabetic patients seems “not worse”, interesting, opening perspectives.

Biography

V Novikov has done his MD from First Moscow Medicine Institute, 1972. He has completed his PhD and Aggregation for High School Teaching in Moscow Transplantation Institute and Peoples' Friendship University, respectively. He was a Scientific Fellow of the Moscow Institute of Transplantation and Artificial Organs and Senior Scientific Collaborator of the Kidney and Pancreas Transplantation Unit of the Moscow Emergency Institute. He has 9 patents in Russia and Belgium, and more than 15 publications in Russian and international journals.

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