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Contradictions of IV. Vitamin C treatment of cancer. The hypothetical way of action

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The lecture summarises the indications and limitations of iv ascorbic acid (AA) cancer therapy. AA has been used for cancer treatment for over 50 years, although the authorities do not approve it in this indication. In vitro and animal experiments prove the efficacy of AA, but convincing clinical data are lacking. The lecture points out the possible reasons for the contradiction. A hypothetical structure responsible for ATP production is also rewired. Based on this hypothesis, it is proposed that AA starts the reaction of ATP production. Glucose, uric acid, and H2PO4 will result in the formation of ATP. Ribose (one part of the adenosine) + CO2 will be created from the D-Glucose during the process. The reaction results in superfluous O2- in the case of glucose deficit. Consequently, at the moment of exhausted caspase defence capacity, the O2- destroys the cell. Cancer cells use significantly more glucose than normal cells. Therefore, they are more sensitive to iv AA therapy than normal cells. Carbohydrate, consumed at the same time as AA administration, inhibits the effectiveness of the treatment. Based on the hypothesis, an adequate clinical trial is planned.

Biography

Prof. Dr. János Hunyady completed his MD at 25 years from the Medical University Szeged, Hungary. He was the chair of the dermatological Department at the University of Debrecen Medical Center, where today he is professor emeritus. He has published more than 250 papers in reputed journals and has been serving as an editorial board member of repute.