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VACCINATION OF CANCER CELLS WITH TUMOR ANTIGENS (STIMULATION OF IMMUNOLOGICAL RESPONSE TO CANCER)

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Using various techniques of immunotherapy always has a positive potential for cancer treatment that it has advantages such as low rates of treatment complications compared to other common methods such as chemotherapy and radiotherapy. Immunotherapy of the tumor is often the host immune response to cancerous cells or prescribing types of specific tumor antibodies. According to the cause accurate examination of the complexity of the immune system with the tumor is necessary for present an appropriate treatment strategy for immunotherapy. Immunotherapy of cancer in case of direct use and active immune response of system components such as stimulating the patient's immune system cells and re-injection of this cell into the person itself is called active immunotherapy and in the case of indirect stimulation and the use of immunological products for the removal of tumor antigens like monoclonal antibodies is called inactive immunotherapy. Tumor vaccines via immunization with purified tumor antigens along with adjuvant are very functional and important. The mechanism of action of these vaccines is: dendritic cells purified from patients are incubated with tumor antigens or the coding genes of these antigens are transmitted to them and then these cells are injected back to the patient, which leads to an immunological response to tumorization. Meanwhile, targeted therapy is one of many therapies for the elimination of cancer that in this way, they give the patient some medications that markers are placed on them. Therefore, these medications purposefully destroy only cancer cells and do not damage normal cells that cancer immunotherapy by vaccination can be one of the most important of these.

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