

The Effect of the Anti-Cancer Preparation NSC-631570 on Prostate Cancer

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Unusual for an anticancer agent NSC 631570 possesses some distinct immune properties. In several immune target-effector systems NSC 631570 significantly amplified the malignotoxic activity of macrophages, lymphocytes and NK cells, and stimulates dendritic cells maturation in vitro. While the parameters like B-lymphocytes count, immune globulin concentrations, complement and acute phase proteins did not changed significantly, it can be postulated NSC 631570 modulates the cellular part of the immune system whereas the humoral part remains unaffected. Besides, the NSC631570 has a selective effect – thus, it kills only cancer cells and the healthy cells remain undamaged. First indications on the selective effect of NSC 631570 on the cancer cells were provided in an early study when different oxygen consumption by normal liver cells and Ehrlich’s tumor ascitic cells after the incubation with NSC 631570 was revealed. A radio protective effect was found in normal human fibroblasts. NSC 631570 caused the accumulation of prostate cancer cells as well as epidermoid carcinoma cells in the G2/M phase, however, not of normal cells.

The efficacy of NSC-631570 in prostate cancer has been confirmed in a controlled clinical study. In the study patients, all standard treatment modalities had been exhausted. The cancer relapsed and/or progressed and no therapy protocol was available. The patients were treated with NSC-631570 and partially with local hyperthermia. Following results were achieved: full remission in 54 patients (73%), partial remission in 16 patients (22%). Only in 4 patients (5%) the therapy did not affect the course of the disease.

Speaker Biography

Wassil Nowicky — Dipl. Ing., Dr. techn., DDDr. h. c., Director of “Nowicky Pharma” and President of the Ukrainian Anti-Cancer Institute (Vienna, Austria). Has finished his study at the Radiotechnical Faculty of the Technical University of Lviv (Ukraine) with the end of 1955 with graduation to “Diplomingenieur” in 1960 which title was nostrificated in Austria in 1975. He became the very first scientist in the development of the anticancer protonic therapy and is the inventor of the preparation against cancer with a selective effect on basis of celandine alkaloids “NSC-631570”. He used the factor that cancer cells are more negative charged than normal cells and invented the Celandine alkaloid with a positive charge thanks to which it accumulates in cancer cells very fast. He has received the award for merits of National guild of pharmasists of America. The award of Austrian Society of sanitary, hygiene and public health services and others.

Total Number of Patients	Full Remission	Partial Remission	Disease Progression
74	54	16	4
100%	73%	22%	5%

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