

Information about the immune modulator „Galavit" obtained from the „Cancer Immune Therapy Workshop".

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## Contents

1. GENERAL INFORMATION .....	1
2. AIMS AND TARGETS OF THE COMPLETE CANCER IMMUNE THERAPY (CIT) .....	2
3. The role of the immune system in the development of cancer and it's use in the fight against cancer .....	2
4. HE IMMUNE MODULATOR GALAVIT.....	3
5. THE MAIN EFFECTIVENESS OF GALAVIT .....	4
6. THE CLINICAL USE OF GALAVIT .....	5
7. SUMMARY .....	6

## 1. GENERAL INFORMATION

In Germany over 330,000 persons develop cancer annually. Nobody is immune however healthily they might live.

Over 210.000 persons die of cancer each year in Germany alone.

Cancer has many manifestations. The word „cancel' is a general term referring to ca. 100 types of malicious illness. Individually, they differ greatly in the form they take, the treatment required and the chance of a full recovery. No part or organ in the body is exempt. For the layman who develops cancer a world falls apart. It is often felt as a personal failure or a sign of guilt.

For decades, the 3 most commonly used therapies in school medicine i. e. surgery, radio- and chemotherapy have proven unsuccessful in the majority of cases. They intervene more or less aggressively in the human organism creating for the most part substantial side-effects, both physical and psychological. There is no guarantee of success. Many patients, when faced with this situation, feel left alone and even ostracized.

This feeling, at least in the early stages, is not helped by the patients reduced quality of life which in turn can reflect negatively on the healing process. Additionally, the patients expectations of school medicine are often higher than the results obtained. Most cancer patients though, are convinced that their illness cannot be defeated by clinical means alone. They have a deeply rooted need to mobilize their self-healing forces (immune system). Even school medicine today realizes that it is imperative to find new ways of healing cancer, primarily with the activation of ones own personal immune system. For a long time it has been understood that the immune system destroys tumor cells if and when it detects them. Should a blood-transfusion take place between a cancer patient and a healthy patient, the latter's immune system immediately detects the tumor cells and destroys them with no ill-effect whatsoever to the healthy patient. This is proven daily.

## **2. AIMS AND TARGETS OF THE COMPLETE CANCER IMMUNE THERAPY (CIT)**

The „complete cancer immune therapy" can be put into use directly after the first traditional, medical treatment whether it be operative, or the use of chemo- or radiotherapy. It contains all the follow-up and aftercare measures necessary to fight cancer i. e. the stabilisation of the immune system, the reactivation of the bodies own welfare force and the prevention of further tumours and metastasis thus creating a greater quality of life. This it turn means a the patient has a greater feeling of personal importance by being reintegrated into society, the family and the work-force. The five principal purposes of the complete **Cancer Immune Therapy** are:

- a. **To fight cancer. In addition to recognise and combat subsequent conditions, e. g. the**
- b. **side-effects due to chemo- and radio-therapy, various post operative infections, pain**
- c. **syndrome and depression. b. The reconstruction and stabilisation of the immune**
- d. **system in order to create a competent defense mechanism to fight unwanted**
- e. **tumours.**
- d. **The extension of a patient's lifespan by the early recognition and treatment of**
- e. **tumour recidives.**
- e. **The re-creation of a patient's quality of life both mentally, physically and socially.**
- f. **The use of a re-integration and re-orientation therapy to include other members of the**
- f. **family.**

Many patients who have undergone the traditional therapy procedures have nevertheless not been cured of cancer. Even in these cases the Complete Cancer Immune Therapy can be of tremendous help as it can be used when the traditional medicine can no longer be implemented due to unsurpassable side-effects.

## **3. The role of the immune system in the development of cancer and it's use in the fight against cancer**

Many patients attribute the outbreak of their cancer to a failure in their immune system and overlook the fact that their immune system has functioned perfectly over the years before the final diagnoses of their illness. Often ten to twenty years lie between the emergence of the first cancer cell and the final diagnoses of cancer. During this time, the bodies own defense system has effectively fought off everyday illness such as the flu despite the existance of a cancer growth. Thus we can conclude that the immune system is healthy and active for as long as the cancer does not begin to spread throughout the body ultimately destroying the immune system or the immune system has been weakened by other measures such as heavy viral infections or radical radio- or chemotherapy.

The reason why the immune-system cannot detect the cancer cell and fight it, thus preventing the outbreak of full-blown cancer is fact that the main cancer cell can camouflage itself. Even

if we today still do not know the reason behind the formation of the first cancer cell, cancer experts are united in the opinion that the creation of a camouflage system is the first active performance of a cancer cell. This camouflage system defeats the destruction of the cancer cell by the immune system.

Only if the „daughter cancer cells" (metastasis) which develop when the main tumour cell divides, manage to camouflage themselves before being detected by the immune system, then they will grow into a primary. This process can take years and only too often the metastasis have spread throughout the body before they have been detected. Often the search for the reasons behind the occurrence of an acute illness lead to the discovery of cancer.

As with most cancer patients the immune system is intact in the beginning but due to the regular use of chemotherapy the immune system weakens and thus the cancer patients fall prey to further illness and infections. The immune system must be rebuilt and for this the nonspecific immune therapy is used. It is important to note the only the „specific immune therapy" can seek out and destroy tumour cells that until now have lain undetected. It is important to differentiate between the immune therapies and to understand which kind of therapy should be given to which patient and at which stage in his illness.

#### **a. The Specific Immune Therapy**

The aim is to "unmask" the cancer cells and to activate the defense cells which in turn stop the growth of the primary tumour and the formation of metastasis. The immune modulator GALAVIT belongs to the specific immune therapy.

#### **b. The Non-Specific Immune Therapy**

The aim is to stimulate the bodies own defense organisms particularly after the use of radio- or chemotherapy. Mistel, Zyzocine and monoclonal anti-bodies are used for this.

#### **c. Reconstructive Immune Modulation**

The aim is the general restoration of the immune system (especially after the use of radio-or chemotherapy), the stimulation of the cellular immune response and the formation of new cancer cells as well as the reconstruction of diseased body issue. The immune modulator GALAVIT can achieve this.

#### **d. Additive Immune Modulation**

The aim here is also a general restoration of the immune system. Oxygen therapy, hyperthermia. Kneipp therapy, a symbiosis control element and an enzyme therapy are but of some of the various therapies used.

### **4. HE IMMUNE MODULATOR GALAVIT**

The immune modulator was developed and tested in the space research laboratories in Obninsk near Moscow and well as in space. Immunologen and space physicians, under orders from the State, came together to create a substance that would protect the Russian astronauts from the doses of high radiation they could be subject to during their long periods in space and from the possible emergence of tumours.

According to records, Major General Dr. Victor Ljutov, Director of Medicine for the Air force and Space Travel, used the modulator on 300 cosmonauts and a further 30.000 cancer patients successfully. For the mostpart it was used as a back-up medicine after the use of radio- and chemotherapy to strengthen the already weakened immune system. In many cases GALAVIT was used alone.

As a result the Russian scientists and physicians proved that with the application of GALAVIT not only the side effects after radio- and chemotherapy were greatly reduced but:

- a. the immune system was stimulated in its fight against cancer cells
- b. the growth of primary tumours was stopped
- c. the formation of new metastases was prevented
- d. diseased organ and body tissue was regenerated
- e. the cancer patients life expectancy was increased
- f. the quality of life of the cancer patient was drastically improved.

GALAVIT is a pure substance and no derivative of well-known products already on the market. For this reason the cost of development and manufacture is high. The chemical designation for GALAVIT reads: Amino-tetrahydrophthalozin sodium salt.

## 5. THE MAIN EFFECTIVENESS OF GALAVIT

Although we know a relative amount about the emergence of tumours we are still only at the very beginning. One fact however is proven and undisputed: Tumour cells are automatically developed in our body from normal cells. Many factors, both inside and outside the cell, activate the transformation of the normal body cell into a cancer cell. Genes also play an active part.

So-called "Oncogenes", which have the ability to turn a healthy cell into a malicious cell, certainly play an important role.

We know that our body has protective mechanisms which can prevent the development of tumour cells. First step is a so-called genetic check. If this check fails to detect a cancerous cell which is camouflaged the second defense mechanism is put into action - the so-called anti-tumour immunity. This is mainly represented by so-called immune competent cells (Monozyten, macro phages, t-Lymphozyten, natural killer cells etc.). The cells work closely together and can detect and eliminate tumour cells.

Immune-competent cells can destroy cells directly. In addition they can produce biologically active substances (messenger materials - Zytokine, e.g. tumour necrosis factor, Interleukin-1) which in turn prevent the further growth of tumours. The tumour cell kills itself through a "suicide mechanism"

Should the second level fail and the camouflage wall surrounding the tumour not be discovered, the tumour grows uncontrollably. Further tumour cells (suppressor cells) for their part can attack and destroy healthy cells thus suppressing the already weakened immune system.

It is therefore of the utmost importance that the immune system is in a position to continuously exercise its protective function. GALAVIT has been developed for this purpose. GALAVIT brings about eventual correction to the anti-tumour activity which in turn suppresses tumour growth which is so important to a healthy immune system.

The effectiveness of GALAVIT was firstly tested on animals.

Khokolov, Kaluzin and Abidov at the Academy for Medical Sciences in Moscow noted a radical decrease in existence of lung-metastases of up to 44% in animals with skin cancer.

Even better results were obtained by Liubavina and his co-workers at the Medical Research Centre for Radiology in Obninsk - Moscow. They could prove, after a series of tests, a decrease in metastases after the use of GALAVIT and Cyclophosphamid (a chemotherapeutic agent). A quarter of the amount found by a "controlling body". The use of Cyclophosphamid alone halved the amount of metastases

found. GALAVIT used on its own brought about a definite decrease in the size of the tumour.

In the meantime the same results have been seen in human patients taking GALAVIT. The cancer patients who took GALAVIT developed extra macro phages cells which in turn together with special "messenger materials" (see above) activated their own immune system. (Interleukin-1, Interleukin-6, tumour necrosis factor). The immune modulator GALAVIT plays a special role in changing the external wall of the tumours cells. The camouflage is broken making them detectable through the production of surface molecules which in turn tell the messenger materials to build up the immune system in their fight against the tumour cells.

## **6. THE CLINICAL USE OF GALAVIT**

The clinical use of the immune modulator GALAVIT has been further developed and tested. Over the last 40/50 years there has been no considerable breakthrough in the field of tumour therapy and the future looks relatively bleak. Until now the three possibilities have only been - operation, radio or chemo-therapy.

The future must look to immune therapy and gene therapy as a possible cure. GALAVIT falls into this field. It is not a chemo-therapy (poisoning of the cells) but a medicine which builds up and controls the bodies own defense system and creates its own immune therapy against cancer.

Due to the biological reactions brought about by GALAVIT, we have a substance which is highly compatible with other elements. Due to the high purity of the medicine there are at present no known side-effects and we expect none in the future.

GALAVIT can also be used when chemotherapy is no longer feasible, i. e. maximum dosage has been given or the side-effects are too high.

GALAVIT is applied as an inter-muscular injection. Dosage and duration of the therapy depend on the type of cancer and its severity.

## **7. SUMMARY**

GALAVIT is a new medicine which has been developed in the fight against cancer- It re-activates the bodies own immune-system, seeking out where the tumours and metastasen are hidden with no known side-effects.

GALAVIT has been experimentaly and clinically tested and is registered as a official medicine at the Ministry of Health and Welfare in Russia.