ORGAN EXTRACT- AND CELL THERAPY FOR CHRONIC DEGENERATIVE DISEASES AND ANTI-AGEING

INTRODUCTION

The human body contains some four trillion cells, which all arose after conception from one unified cell through multiple cycles of division. This process of cellular renewal continues throughout life, as old and weak cells are replaced by new ones. In healthy young individuals the division of cells takes place regularly in an energetic and balanced bio-terrain. However, as we grow older, this process begins to slow down. Improper nutrition with large amounts of animal fat, processed sugars, food additives and too little of biologically grown vegetables, life styles with heavy smoking, excessive alcohol consumption, an overall increase in stress due to our fast-paced lives, pollution with carcinogenic solvents, heavy metals and pesticides tend to suppress this renewal process even more. As a result we age prematurely and even fall ill with chronic degenerative diseases or cancer.

Organ extract- and cell therapy offers a unique opportunity of causative treatment in this context, since it can prevent premature cell death or malfunction, induce cellular renewal and restore lost function of specific cell types in the human body.

Most of us hope for a long meaningful life and nobody wants to be burdened with poor health, fast degeneration, or pain as they age. Throughout history, mankind always has searched for the proverbial "fountain of youth". Our modern conventional health care systems have indeed brought us a longer life expectancy through high-tech medicine and acute crisis management. However, they have failed terribly in the fields of premature ageing, chronic degenerative diseases and cancer. It is hoped that the knowledge gained from empirical, bio-energetic and integrated biological medicine will impart a longer life with vitality. We are all aware of show business personalities and other celebrities of our time, for whom the ageing process appears to have stopped. They continue to look well, be attractive, and they are in great shape, even in old age. Certainly, healthy nutrition, exercise and plastic surgery may play an important role here, but with more than mere appearance, these famous people continue to exude an aura and body language that identifies them with younger age groups. The reason is that many of them frequent the famous clinic spas and medical & wellness centers in Europe which specialize in regeneration and, specifically, in the medically respected technique of organ extract – and cell therapy. This treatment modality has made it possible for these celebrities to maintain a very active lifestyle that otherwise would be impossible. The recipients seem to retain the vitality of youth, making it possible to enjoy the fruits of success well into their senior years.

WHAT IS ORGAN EXTRACT- AND CELL THERAPY?

In organ extract- and cellular therapy, cells or extracts of foetal tissue are administered via intramuscular injection into the human body for therapeutic purposes. These cells are then broken down into their basic elements (enzymes, polypeptides, deoxyribonucleic acids, ribonucleic acids and other basic organic substances) and reused by the cells, tissues and organs of the person treated. The fundamental theory behind organ extract – and cell therapy is the principle ‘Similia Similibus’ or ‘Like Cures Like’, as stated by Paracelsus, a Swiss physician and philosopher of the 16th century. Paracelsus and many other early physicians believed that the best

way to rebuild or revitalise ill organs or ageing tissue was to use healthy living cells of the same tissue type. Modern organ extract- and cell therapy refers to treatment by injection with cellular elements and whole cells from healthy unborn or foetal sheep or calves specially bred for medical purposes under a controlled environment. Organ extract- and cell therapy actually "wakes up" dormant cells within the human body, thereby stimulating the growth and function of existing tissue and repairing or regenerating old and malfunctioning cells. Organ extract- and cell therapy offers something that vitamins, minerals and other conventional or natural treatments cannot. It can provide the exact components necessary for injured or diseased tissue to heal and regenerate. While most pharmaceutical drugs work by suppressing certain symptoms over a short period of time and only as long as they are taken, organ extract- and cell therapy stimulate the body's own healing and revitalising powers and exert a long term effect.

THE HISTORY AND DEVELOPMENT OF ORGAN EXTRACT- AND CELL THERAPY

Organ extract- and cell therapy dates back thousands of years. Written in 1600 B.C., the Eber Papyrus of medicine recommended injection of animal organs to improve human vitality. In the Middle Ages, Parcelcus observed, for the first time, the organisational unit of all life, the cell, was the element in 'like heals like'.

In the late 19th century, French Nobel laureate Dr. Alexis Carrel discovered the potentially immortal nature of cells. He was able to keep alive fragments of a chicken heart for 25 years after the fowl had died by combining cellular material from different hearts into his cell culture. At about the same time Paris physiologist C.E. Brown-Sequard recognised the potency of cellular therapy by injecting himself with an extract made from the testicles of a young bull to increase his virility. In the 1920's, ophthalmologist Vladimir Filatov initiated the application of foetal cellular and aloe plant extract therapies for non-specific rejuvenation of chronically ill patients. His earliest claimed successes were in reversing retinitis pigmentosa and involutional retinal macular degeneration.

Modern organ extract- and cell therapy began in the 1930's, when the Swiss surgeon Paul Niehans first discovered that cells derived from the organs of foetal sheep could be injected into the human body without triggering the natural immune defence mechanism that acts to reject foreign protein. In 1931, Niehans was summoned to an emergency operation where he was requested to perform a transplant for an elderly woman whose parathyroid glands were accidentally removed during a thyroid surgery. The patient was in critical condition and in a race against time, Niehans sought instead to inject the woman with a steer's parathyroid cells suspended in a saline solution, crudely prepared at the scene. The woman's condition quickly stabilised and continued to improve as she went on to live another 30 years. In the forty years following his first successful experiments, Niehans applied his discoveries in cellular therapy over 50,000 times. Among Niehans' patients were celebrities Charles Chaplin, Robert Cummings, Joan Crawford, Charles de Gaulle, Dwight and Marnie Eisenhower, Winston Churchill, Charles Boyer, Bernard Baruch, the Duke and Duchess of Windsor, Joseph Kennedy, and many others. In 1953, Niehans was called to the bedside of a dying Pope Pius XII. In gratitude for successful cell therapy, Niehans was invited to become a member of the Papal Academy of Sciences. Due to its success, European physicians slowly began to accept Niehans' work with cell therapy. Organ extract- and cellular therapy was on the way to becoming an accepted regenerative technique in Europe.

Niehans continued his research and work into the 1960's, publishing extensively, only interrupted by World War II. His major opus on theory and practice of cellular therapy was published in German in 1954. Niehans later collaborated with Bauer of Clarens Clinic in Switzerland in studying the therapeutic effects of fresh and preserved cells. He developed the freeze-drying process of fresh cells termed lyophilization. He used cells from the frontal brain to treat mongolism. He used skin and eye cellular extracts to treat albinism, injected liver cells to treat cirrhosis, and utilised testicle cells to treat impotence. Swiss publisher Thorne released the English version and update of Niehans' original work which also included papers by researchers from Germany, Austria, Greece and Spain.

Over the years, organ extract- and cell therapy was perfected and found most beneficial for revitalisation of the body's immune system and its defence mechanisms. When damage occurs to cells that make up the various tissues and organs that are part of the immune system, the body becomes defenceless against both external invasion and internal degeneration. Damage to organs of the immune system can be reversed with cellular therapy. New and energetic cells act quickly and effectively to stimulate the body's defence mechanisms, allowing for revitalisation and regeneration, thereby restoring health, vitality and physical power.

THE SCIENCE IN ORGAN EXTRACT- AND CELL THERAPY

To date over one thousand scientific studies have demonstrated the effectiveness of cell therapy. By radioactively marking organ extract- and cell therapy material, researchers have been able to ascertain what exactly happens with it after injection. It was found that within forty eight hours of administration, 90% of cell extract of the liver for example is attracted to its respective organ, making its way to its destination. The cells then produce the power for the organ to mend itself.

In the 1970's, Letre and Schmid from the University of Heidelberg, Germany, demonstrated that radioactively marked foetal cells invariably ended up in the target organ. This research verified animal cellular material was transported by the human host's blood to its counterpart organs and tissues. Later Kment from the University of Vienna experimented with old rats and their ability to learn, perceive, and heal after tissue laceration. Kment concluded that older animals injected with cell therapy showed improved mental acuity and a faster healing. His extensive work in Austria in the 1970's indicated that cellular therapy improved cognitive abilities, connective tissue elasticity and tissue respiration. By the late 1970's, a large number of experiments had been conducted on cell therapy yielding empirical results. Improvement was seen with its use for a wide range of diagnoses, including chronic degenerative diseases and genetic malfunction in infancy.

While organ extract- and cell therapy specialists were working in Europe along the lines suggested by the late Paul Niehans of Switzerland, the U.S. allopathic community in the 1980's had begun to move into the arena through various alternate routes. Many of these physicians and scientists were seemingly oblivious to the fact that they were simply corroborating the theories and postulates of the 'unorthodox' European cellular therapy and solid-state biophysics pioneers of decades earlier.

The 1980's was a decade in which allopathic medicine began to legitimise cell therapy (to find some way to fit it into the allopathic paradigm and alter semantics while doing so) began with Dr. Michael Osband whose work was published in the New England Journal of Medicine in 1981. He showed that 10 of 17 children treated for the immunosuppressive condition called Histiocytosis X underwent complete remission after being treated with daily intramuscular

injections of thymus extract from five day old calves. This was the first reported use of a non-human organ extract- and cell therapy in the U.S.

In 1983, the American Paralysis Association convention was told that cells taken from human aborted foeti and injected into animals had provided evidence of being useful in repair of spinal cord accidents and degenerative diseases.

In January 1988, The Los Angeles Times reported on the work of Dr. Kevin Lafferty from the University of Colorado Medical Centre, who saw 'good results' in 6 of 17 diabetic patients treated with implanted cells from foetal pancreases. The Times also reported that about 200 patients worldwide had received foetal liver cells, primarily to restore bone marrow loss as a result of cancer therapy.

Robert P. Gale, M.D., of University of California, Los Angeles had implanted foetal liver cells into six radiation victims of the previous Soviet Union's 1986 Chernobyl nuclear disaster. Here was an ironic case in which American researchers were utilising a form of therapy the American medical establishment still considered to be unproven at best, quackery at worst, to help save lives in a foreign country.

Allopathic medicine regards Parkinson's disease as an incurable condition. In the late 1980's, a wheelchair bound victim of Parkinson's was the first American to undergo what the American medical establishment decided to call 'human foetal cell transplantation therapy' .This new designation, was hoped to be distanced from the line of medical research of cellular therapy; the European animal embryo based treatments the allopathic industrial cartel in the United States had long written off as medium tech quackery. Ongoing orthodox research into the Parkinson's case had shown that since the 1989 injection of brain tissue from an aborted human foetus, the patient's Parkinson's symptoms had lessened by 50%. Unfortunately for the pharmaceutical industry, nothing about cell therapy is patentable, or highly profitable, nor does it consign a patient to endless expensive courses of therapy.

Dr. Mitchell Golbus of the University of California in San Francisco had unsuccessfully attempted to transplant adult tissue into human foeti to cure genetic conditions. The fact that an American university would try to inject adult cells indicated just how provincial the U.S. healthcare system could be. For classical European organ extract- and cell therapy practitioners who utilise animal embryonic, foetal or placental tissue injected subcutaneously, the interest of the Americans into human cell therapy borders on the laughable. Why would they utilise adult human tissue? And why would they directly graft into the brain or any other organ, which is risky and potentially dangerous?

In October 1991 and as a follow up in February 1992, American researchers were also reporting early success with foetus to foetus cell therapy with a severe genetic abnormality known as Hurler's Syndrome. Ismail Zanjani of the University of Nevada in Reno reported that transplanted human foetal tissue had 'taken hold' in an infant born a year before, with the child's blood making cells of the transplanted tissue. The developing foetus had been injected with foetal cells from an aborted human foetus in a controversial application of therapy. The parents of this child had also lost two children prior to this to mucopolysaccharidosis syndrome, which causes crippling skeletal problems, blindness and severe mental retardation. The case brought to the public eye the controversy of using human foetal tissue in experimental therapy.

HOW CONTROVERSIAL IS ORGAN EXTRACT- AND CELL THERAPY?

Be aware that many doctors, unknowingly and without study, have referred to organ extract- and cell therapy as an "unscientific" treatment. Those physicians are not aware of, or refuse to read, any of the over 1000 scientific publications that have already been written in this field. Nor are they aware of the over 8,000,000 patients that have already safely received organ extract- and cell therapy in Europe, in centres which are under Swiss, Russian and German government sanction. On the other hand, such uninformed critique disappears when we refer to the treatments used today by allopathic physicians, such as hormones and enzymes, which are extracted from animals, or to collagen, which is injected by plastic surgeons to smooth out wrinkles. Non-human (lamb) foetal cellular and extract therapies were first developed in Germany, Russia and Switzerland in the 1920's. The rationale of this organ extract- and cell therapy is to approach chronic viral, degenerative, congenital, allergic, and some cancerous diseases from an entirely different direction than that of allopathic pharmaceutical (drug oriented) medicine. Foetal lamb cells (freeze dried aka Lyophilized or fresh frozen) or filtered liquid extracts of these cells seem to induce tissue specific structural and functional regeneration in disorders related to the connective tissue, neurological, vascular, respiratory, digestive and immune systems. Organ extract- and cell therapy in either form is not new, and is allowed by the US Food and Drug Administration (FDA) for use by licensed physicians in investigational protocols under natural products guidelines. Delay in generalised acceptance and application of organ extract – and cell therapy in the United States and Asia has been related to the failure of university teaching centres to instruct in this modality, to pharmaceutical industry influence, and to the fact that nearly all the literature was previously in German. A wealth of peer reviewed basic science and clinical publications around the world now document the mechanism of action and efficacy of organ extract- and cell therapy in a number of forms, regardless of terminology.

The two pathways to health are not mutually exclusive, nor should they be considered necessarily competitive. Allopathic regimes tend to work better against emergency or acute problems such as trauma, rapid tissue failure, acute inflammation and infection. Organ extract- and cell therapy is more oriented to chronic degenerative diseases, non-healing wounds, immune incompetence, virus related tumour therapy, disturbed childhood development, premature ageing, chronic allergies, and endocrine (glandular) dysfunction. Neither therapeutic philosophy can assure a trouble free life, claim miraculous cures, guarantee success, or insure against any adverse reaction or complication. Even when applied with wisdom, competence, and the best of intent, all human therapies can fail, complicate, or hasten death.

ORGAN EXTRACT- AND CELL THERAPY IN ANTI-AGEING

Ageing is one of the most natural processes and, strictly speaking, defines earthly life's time limit. All earthly life is subject to wear and deterioration, a process which, in fact, begins shortly after birth. Mankind has always dreamed of halting the degenerative ageing process and turning back the clock to attain eternal youth. Nature, of course, always denied us fulfilment of this age old wish. Recently, epoch making advances in medical science have assured us that the average life expectancy will become significantly longer. As a result, the human organism will be subjected to a significantly longer period of wear. Although the degenerative ageing process is inevitable, it can be reduced or dramatically slowed with specific organ extract- and cell therapy in the context of detoxification, bio-terrain correction, and other biological therapy. American allopathic drug based medicine today is at the avant-garde in crisis transplantation of hearts, kidneys and livers. However, the allopathic physician usually treats symptoms of ageing and disease with artificially synthesised, frequently toxic chemicals which are not found in the

natural body. Allopathic medicine utilises a single chemical or treatment series of chemotherapy to enhance or to inhibit a particular enzyme, cellular substrate or organ function, hoping to alter the perceived symptom or disease state. The allopathic physician works with toxins, so he/she must constantly evaluate the risk to benefit relationship of a single drug, or worse, a combination of drugs. Organ extract- and cell therapy, on the other hand, purports to supply non-human, hypo antigenic, foetal genetic cellular components (DNA, RNA, and inducer proteins) by tissue injection to renew biological function. Pharmaceuticals tend to work symptomatically and not causally. In effect, the drugs only work as long as we are taking them, whereas organ extract- and cell therapy, as a biological treatment, has a longer term effect without the fear of dangerous side effects.

VARIOUS FORMS OF ORGAN EXTRACT- AND CELL THERAPY

Over the past 70 years, three distinctive types of organ extract- and cell therapy have evolved: Therapy with fresh organ extract or live cells, fresh frozen organ extracts or cells and lyophilised organ extracts or cells. Today, all three forms of cell therapy are often incorrectly referred to as 'Live Cell' therapy. In the strict sense of the meaning however, live cell therapy is rarely practiced today.

Fresh organ extracts and live cells

The most primitive form of organ extract- and cell therapy is the direct transfer of fresh organ extract or living cells taken from a sheep or calf embryo, and almost immediately injected into the human body. Niehans used this method of cell therapy in the earliest days of treatment. This method has several disadvantages. In particular, it does not fulfil today's safety requirements for biological injectables since sterility can be compromised during the harvest of the cells and there is no time for microbiology testing of the material injected. Use of live cells for treatment also bears a higher risk for allergic reaction and more frequently induces local inflammation at the injection site. For these reasons, this form of cell therapy is rarely practiced today.

Fresh frozen organ extracts and cells

This method uses fresh organ extracts or living cells from a sheep or calf embryo that are shock frozen utilising a specific technique in liquid nitrogen at -196°C and later stored at -80°C until injection. The advantage of this method is the preservation of physiological integrity and biological activity of the extracted substances and cellular material for a long period of time in the frozen state. After thawing for injection, biological activity of the preparation is fully maintained. As the cell preparation involves several steps of cell washing, there is a minimal risk of allergic reaction and rarely local inflammation at the injection site. The preparations are all tested for sterility and antigens; they can be stored easily and shipped without problems to all corners of the world.

Lyophilized organ extracts and cells

Lyophilized organ extracts and cells are prepared by the process of freeze-drying. Organ extracts and cellular material will be frozen and dehydrated in a vacuum at the same time, thereby maintaining the biological integrity of the biochemical substances in the organ extract and also maintaining cellular components. On the other hand, the freeze drying process destroys a protein substance called intracellular cementum which holds cells together, but also triggers allergic reactions. Removing this substance by lyophilization thereby reduces the allergic potential of the organ extracts or cell preparations. Prior to administration, the freeze-dried organ extract- and cell preparations are reconstituted with normal saline or Ringer's solution. Therapy with

lyophilized organ extracts or cells is a more improved method over the live cell method. The preparations can be tested for sterility and antigens; and can also be stored easily and shipped without problems to all corners of the world.

ORGAN EXTRACT- AND CELL THERAPY WITHOUT IMMUNE SYSTEM SUPPRESSION

Transplantation of whole mature animal organs to humans has been tried in the past, but it was never successful with regard to long-term survival of the transplanted organ or the recipient host. Transplantation of whole mature organs requires massive suppression of the host's innate immune system with drugs that destroy otherwise necessary immune system cells. Even with intense immune suppression transplanted whole mature organs will not survive long, and often the immune compromised host will die due to acute rejection or infection.

With organ extract- and cell therapy the situation is completely different. There is no transplant of organised tissue as seen in mature whole organs, and therefore, foetal organ extracts or cells are not readily recognised by the body's immune system as being foreign and hence no rejection is mounted. Foetal organ extract- and cell therapy does therefore not require any immune system suppression. Macrophages, specialised white blood cells gifted with the power to absorb invading cells or bacteria, will degrade the implanted foetal organ extract or cells to their molecular levels by a process called phagocytosis. Useful constituents will be incorporated into the body without inflammatory or immune reaction, ready to revitalise worn out or ailing tissues and organs.

ORGAN EXTRACT- AND CELL THERAPY FROM ZELL-V

Presently, more than 30 different organ extract- and cell therapy preparations are available from ZELL-V. A unique rejuvenation set with 8 individual organ extract- or cell therapy preparations is widely used for anti-ageing purposes. It is prepared to rejuvenate the three main body systems that govern ageing: The endocrine system, immune system and detoxification system. The set contains extracts or cells of the following tissues: pituitary gland, adrenal gland, liver, kidney, spleen, thymus, heart and ovary or testis, respectively. Treatment is administered via intramuscular injection. For patients with pre-existing medical conditions or manifest diseases, the rejuvenation set is often combined with other specific extracts or cell types as adjuvant therapy. For example, patients with cardiovascular disease would receive additional organ extracts or cells originating from heart and vessels; patients with diabetes mellitus (high blood sugar) would receive additional extract or cells from pancreas.

Be aware that there are many manufacturers of organ extract and cell therapy preparations for rejuvenation on the marketplace today. Some of them are scrupulous in their choice of methods to compete. In particular, they often compromise with regard to product quality, sterility, and safety to maximise profit. Some of them even go so far as to add certain synthetic drugs (hormones, growth factors, even amphetamines) to their product without declaration. This might help those companies to better compete with obvious "quick results" using their products, but it certainly is not beneficial to the patient (in some instances it might be outright dangerous!) and it is definitely illegal. Remember, there is no 'quick fix' for general rejuvenation or chronic degenerative diseases. Natural tissue repair with organ extract- and cell therapy takes time. Make sure your product choice is correct.

BENEFITS OF ZELL-V ORGAN EXTRACT- AND CELL THERAPY

ZELL-V preparations have multiple benefits. They can slow down premature ageing and provide the stimulus for rejuvenation and regeneration of organs and organ systems, thereby helping to regain beauty, health, vitality and physical power. For patients with chronic degenerative diseases these preparations will aid in healing process. The following is a list of examples where organ extract- and cell therapy might be beneficial:

- Adrenal Diseases (certain hormonal imbalances)
- Age Related Conditions
- Arthritic Conditions (joint problems)
- Auditory Dysfunctions (certain hearing problems)
- Auto Immune Conditions
- Blood Diseases
- Diabetes mellitus
- Cardiovascular Diseases (e.g. atherosclerosis, arteriosclerosis)
- Circulatory Problems
- Genetic Development Disorders in Infancy (e.g. Down's syndrome, other chromosome abnormalities)
- Immune System Dysfunctions
- Kidney Diseases
- Liver Diseases
- Lung Diseases
- Memory Impairments
- Muscle Diseases
- Neurological Diseases
- Ocular Conditions (certain eye problems)
- Psychological Disorders
- Renewal of 'Joie de Vivre' (vitality problems)
- Skin Diseases
- Surgery or Accident Recovery
- Sexual Dysfunctions
- Viral Conditions

Organ extract and cell therapy is often beneficial in cases of chronic disease that no longer responds to conventional treatment.

IS ORGAN EXTRACT- AND CELL THERAPY SAFE?

ZELL-V preparations are manufactured in our laboratory in Germany, under stringent safety and quality assurance regulations and constant supervision by the Health Authorities. A number of studies, as well as decades of clinical experience demonstrate the safety and effectiveness of

these preparations as a biological therapy with the potential to improve metabolic activity and repair function within cells, tissues and organs.

- **The International Association for Organ cell therapy Specialists Switzerland & Germany**
- **The German Society for Thymus Therapy, Germany**
- **The Swiss Society for Anti Ageing Medicine**