

Dementia - Alzheimer

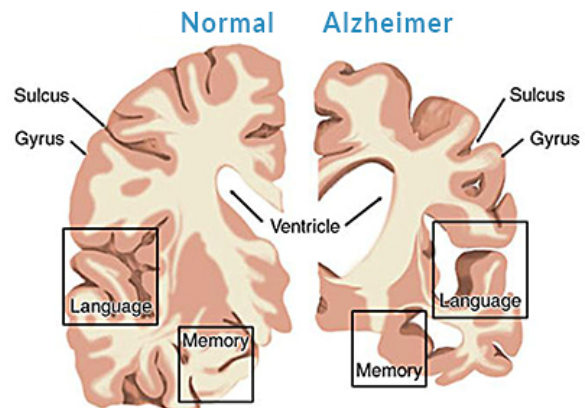
New therapy potentials – new confidence

Neurodegenerative Stem Cell Therapy

Other factors that have been found to increase risks include chemical imbalances, chemicals, viruses or lack of enough oxygen at birth. In some cases, autistic behavior has been linked to; German measles (Rubella) in pregnant mothers, rare genetic disorders like tuberous sclerosis, fragile X syndrome, brain inflammation and untreated phenylketonuria. Autism has also been linked to environmental toxins like pesticides as well as heavy metals (like mercury).

Symptoms of *Trisomy-Neuro-Degenerative Disorders* vary depending on age. Here are some key symptoms; language, social and behavioral signs to look out for in pre-school and school going children.

Neuro-Degenerative Disorders



Stem Cell Therapy for Trisomy-Neuro-Degenerative Disorders/Diseases (TNDD)

Recent research studies also show that stem cell therapy can be used to treat autism by addressing root causes of the disease like oxygen deprivation, immune function disorder and inflammation. Stem cell therapy for autism utilizes stem cells acquired from the umbilical cord (mesenchymal stem cells). StemCells21 autism stem cell therapy program works toward decreasing increase angiogenesis and blood flow to the brain, immune modulation and inflammation control in patients with autism alleviating autistic symptoms. The therapy has also been found to help in brain development for younger TNDD-children.

TNDD Stem Cell Therapy focuses on restoring lost or impaired neuron connections, forming new neuron connections and speeding up brain reactions by improving synaptic transmission and the development of new neuron connections.

Improvements experienced by TNDD patients after stem cell therapy include increased; immunity, metabolism, communication ability, memory and learning capacity. Patients experience improvements in verbal skills, writing skills, self-care skills, attention span, concentration and tolerance to different foods.

Xenogenic Cell Therapy Benefits for TNDD Patients

Patients undergoing Xenogenic Cell Therapy have shown to achieve improvement in IQ, motor skills, social behavior, height, language and memory. The typical features of Trisomy also become less pronounced and a vast improvement in the immune system with each cell therapy regimen. As in most cases involving cell therapy, the earlier the treatment is implemented, the better the outcome. However, cell therapy on its own is not sufficient and has to be complemented with comprehensive and integrated therapeutic modalities that also incorporate nutrition, metabolic therapy, developmental therapy, social training, and physical therapy. Many individuals have successfully coped with the effects of the problem by simply living healthier lifestyles and finding the right therapeutic alternatives.

One such alternative has been fast becoming more widely accepted with promising results – Cell Therapy, specifically the administration of live cells derived from fetal tissue of animals, has been suggested and accepted by some parents as a treatment for Down Syndrome. In reality, brain tissues from animal sources have been used in Europe since the 1950s for the treatment of genetic and development dysfunctions. Since the main causative aspect of the disease is genetic, and the brain is the most affected organ, the targeted live cells transplantation have the unique ability to regenerate damaged cells, such as neurons to begin with.

10 Therapy Modules

1. Module: TNDD – Stem Cell Therapy
2. Xenogenic Cell Therapy (incl. special Peptides and Growth Factors)

BioMed's Phyto Therapy Complex:

3. Module: MITO-ENERQ + PQQ
4. Module: SOD
5. Module: GC-BOOST
6. Module: NADH/NAD+
7. Module: CURCUMIN i.v.
8. Module: SAME (S-adenosyl methionine) i.v.
9. Module: EPINATIV
10. Module: OLIPHENOLIA i.v.

1. Module: TNDD – Stem Cell Therapy

Initial Treatment Period: 4 days within 2 weeks

Number of Stem Cells: >100,000,000 (2 x 50 mil cells)

Procedure/Treatment	Quantity
Comprehensive health check up	1
IV infusions of cells	2
Local injections to effected parts of body (joints,muscles, etc)	1
IV medical laser cell stimulation	5
Tissue medical laser cell stimulation	5
IV oxygen therapy	5
Peptide/growth factors injections	10
Take home 1 month cell stimulation supplements	3

2. Xenogenic Cell Therapy (incl. Organo Peptides and Growth Factors)

SUPPORTIVE THERAPIES

With all of our programs a supportive therapy package will be given. This selection of treatments is carefully chosen to enhance the desired cellular mechanisms and to improve your bodies microenvironment.

The main supportive therapies are:

- IV and Local tissue laser therapy - to adjust levels of cellular activity by using BioPhoton therapy
- IV Oxygen and Ozone therapy - in increased levels of blood oxygen
- Peptides / organ extracts - increase repair signals from selected tissues.
- Nutrition / Hormones - replenish or adjust levels in the body to improve desirable effects.

... our new **Phyto Therapy Program, Therapy Modules 3 – 10, see next:**

3. Module: MITO-ENERQ + PQQ

Dietary supplement with pyrroloquinoline quinone (PQQ) and highly absorbable coenzyme Q10. Ingredients per capsule: coenzyme Q10 complex 300 mg, which includes 60 mg of coenzyme Q10 and 40 mg of pyrroloquinoline quinone.

The properties of Q10:

- Potential radical scavenger
- Improves the functional capability of mitochondria (the power plants of cells)
- Increases the number of mitochondria in the brain
- As coenzyme, it controls 95% of the entire body energy (ATP) through oxidative phosphorylation
- Stabilizes the cell membrane

The properties of PQQ:

- Promotes more mitochondrial biogenesis
- Increases mitochondrial efficiency
- Has a performance-enhancing effect
- Promotes the production of NGF (nerve growth factor)
- Takes over an important healing function after post-traumatic brain injuries

4. Module: SOD

Dietary supplement with the antioxidant's superoxide dismutase, 5-hydroxytyrosol and epigallocatechin gallate.

Ingredients per capsule:

SOD extract 40 mg, activity 560 IU, 5-hydroxytyrosol 100 mg, green tea extract 200mg that includes 100mg of EGCG

The properties of SOD:

- Removes oxygen radicals produced by the mitochondria
- Mitigates inflammatory processes

The properties of 5-hydroxytyrosol:

- Counteracts oxidative stress in the brain
- Counteracts hypoxic brain damage (oxygen deficiency in the brain)
- Dampens an induced inflammation
- Has a positive effect on insulin resistance in connection with Alzheimer's/dementia
- Inhibits COMT activity, which leads to higher intracellular DA levels

The properties of EGCG:

- Anti-oxidative, anti-carcinogenic, anti-apoptotic, anti-inflammatory
- The antioxidant stimulates the production of new nerve cells
- The polyphenols it contains promote oxygen supply, thereby protecting you from memory loss
- Promotes physical and mental skills, especially in older people
- Prevents oxidative brain damage

5. Module: GC-BOOST

Dietary supplement with vitamin D, colostrum, chondroitin and lactoferrin. Vitamin D contributes to the normal functioning of the immune system.

Ingredients per capsule % NRV*: Vitamin D 50 mcg 1000%, lactoferrin 200 mg**, chondroitin sulphate 100 mg**, colostrum 80 mg**

The properties of GC-Boost:

- Stimulates the defense cells by means of natural immunomodulating and anti-inflammatory substances and vitamin D
- Strengthens the health-promoting effects

** *nutrient reference values acc. to Regulation (EC) no. 1169/2011.*

** *no reference values available.*

6. Module: NADH/NAD+

Dietary supplement with reduced nicotinamide adenine dinucleotide (NADH). Ingredient per tablet: NADH 50 mg

The properties of NADH:

- Increases the ATP level in the cell
- Stimulates the production of interleukin-6 to support the immune system
- Improves physical and mental performance
- Boosts mental performance in case of jetlag and sleep deficit
- Improves the symptoms of chronic fatigue

7. Module: CURCUMIN i.v.

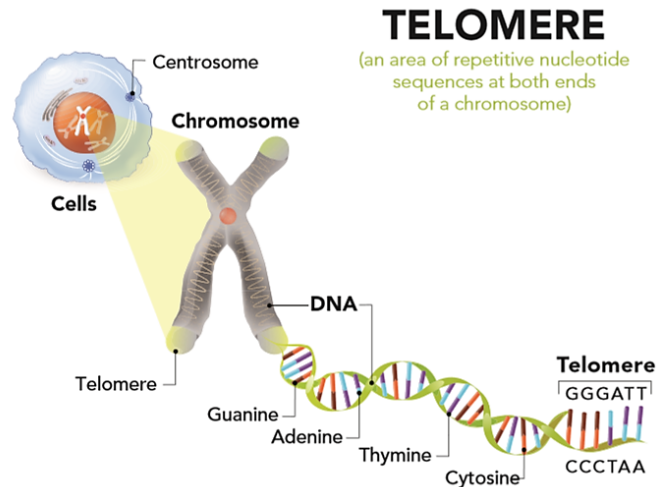
- Curcumin is effective in neurological diseases.
- Curcumin inhibits brain damage triggered by exogenous noxious agents such as glutamate and glucose.
- Curcumin acts preventatively, and also slows down neurological aging processes.
- Curcumin, like resveratrol, binds numerous important cell proteins (receptors).
- This leads to complex regulations, which can lead to a longer life.
- The effect of curcumin on neurological diseases is much more pronounced than that of other plant compounds.

8. Module: SAME (S-adenosyl methionine) i.v.

- Increases the concentration of different neurotransmitters in the brain:
 - Noradrenaline (a natural stimulant)
 - Dopamine (creates a feeling of well-being)
 - Serotonin (a natural sedative)
 - SAME is involved in the functions of the immune system and helps to maintain cell membranes healthy

9. Module: EPINATIV

Diseases, environmental factors and eating habits influence our quality of life and reduce our general life expectancy. Scientific research projects and studies have put the focus of interest on how our chromosomes function. The “building blocks of life” give important instructions to our bodies about development, growth and basic functions. Telomeres are the end of a chromosome. They act as a “protective cap”. Telomeres protect the chromosomes from degradation and ensure the proper functionality and viability of cells. However, during the course of our lives, these telomeres become shorter. The decisive factors are genetic disposition and lifestyle. Obesity, smoking, mental stress and inflammations contribute significantly to the abrasion and shortening of telomeres. Factors such as healthy eating, sufficient sleep and exercise have a positive effect against this and provide a protective function, thereby leading to biological rejuvenation. If the telomeres become too short, the cells cannot replicate any longer. The telomeres shorten gradually as they age, therefore, the ability of stem cells to generate tissue is impaired. This leads to ageing and disease processes. In particular, mental performance declines significantly and a once-intact immune system function less and less efficiently. The condition of the telomere is strongly linked with cardiovascular diseases, dementia, depression, diabetes, infertility and cancer. In a large number of scientific studies in the USA, the causes and effects of the shortening of telomeres have been examined and a Nobel prize has even been given in this area of research. The length of the telomeres can be determined by analytical methods in laboratories.



Telomerase

The enzyme telomerase is able to repair short telomeres by lengthening them. Unfortunately, healthy cells do not normally produce a lot of telomerase, if at all. However, some stem cells do produce this enzyme. In particular, you can find it in embryonic stem cells (or iPSC).

Through the specific protein chain EPINATIV, made of the amino acids alanine, glutamine, asparagine and glycine (ALA-GLU-ASP-GLY), the activation of the enzyme telomerase can be triggered in the body. The structure of EPINATIV is identical to that of the body's own epithalamine.

Epithalamine is a peptide that regulates the progression of the cell life cycle by increasing the activity of the enzyme telomerase and intervening in hormonal regulation mechanisms. It appears naturally in the human body and is produced in the pineal gland inside the brain. Unfortunately, not in a sufficient amount. One of its most important tasks is the regulation of the metabolism by the pineal gland (which produces the chronobiologically regulating hormone melatonin), the elevation of hypothalamus sensitivity, the normalization of hormone response capacity of the anterior pituitary (the most important part of the pituitary gland) and the regulation of the levels of gonadotropin (sexual hormone that stimulates the gonads) and melatonin in the body. EPINATIV intervenes to regulate the hormonal balance in the human body and optimizes hormonal growth and ageing processes, as well as stress influences and cellular oxidation processes.

Epinativ:

- activates the enzyme telomerase and lengthens the telomeres
- increases sensitivity of the hypothalamus for hormonal effects
- inhibits spontaneous and induced carcinogenesis (generation of tumors)
- normalizes the immune function of T cells
- normalizes the electrolyte balance in the metabolism and circulation
- normalizes the cholesterol level
- normalizes the uric acid level
- normalizes the level of gonadotropin hormones (e.g. prolactin)
- positive impact on hemodynamics, which means improved blood flow and blood supply in the body's vascular system

- regulates the compounds affected by acute inflammation processes
- regulates the neuroendocrine system
- strengthens and rejuvenates the entire immune system

Module

Intravenous Q10 (150 mg):

- Generates cell energy
- Reduces lipid peroxidation
- Lowers cholesterol levels
- Improves the contraction of heart muscles
- Protects the heart tissue from ischaemia
- Normalises blood pressure (systolic, diastolic)
- Improves blood sugar regulation
- Supports insulin function
- Reduces oxidative stress
- Supports the immune system (increases the phagocyte activity of the macrophages)
- Slows down the processes of degenerative diseases such as Parkinson's and Alzheimer's

Intravenous Resveratrol (500 mg):

- Different positive effects in cancer therapy
- Anti-ageing effect by limiting calorie intake
- Anti-diabetic, increases sensitivity to insulin, lowers blood sugar directly
- Works as an antioxidant
- Removes free radicals that can be carcinogenic
- Anti-inflammatory effect
- Inhibits cell proliferation

Melatonin (sublingual 5 mg):

- Activates telomerase, known more commonly as "the immortality enzyme"
- Regulates the immune system
- Controls cell purification (autophagy), which is very important for a long and healthy life

10. Module: OLIPHENOLIA i.v.

The base, OLIPHENOLIA i. v, is a fluid phytocomplex, consisting of a natural mix of the polyphenols in olives (hydroxytyrosol, oleuropein-aglycone, tyrosol, verbascoside, chlorogenic acid, secologanoside and many others). The concentration is 20 times higher in comparison with extra virgin olive oil. The filtered and mechanically cold-processed vegetation water is treated without the use of chemical solutions. We have pharmacologically developed this substance and provide it as an infusion preparation with the active ingredient hydroxytyrosol in a homeopathic carrier solution. The ingredients and field of action of this organic polyphenol cocktail has already been proven in numerous scientific studies.

Positive effects of Oliphenolia i.v.:

- Vascular health
- Antibiotic effect
- Metabolism/diabetes
- Nerves in field of TNDD
- Gout
- Cancer prevention
- Anti-inflammatory
- Anti-rheumatic
- Improved, quicker tissue repair