

## *Dear patients and colleagues!*



The booklet you hold in your hands is a kind of visiting card of the Clinic of Healthy Vessels. It is such a name we took a few years to emphasize how important a state of the vascular system is for human health. The circulation is the basis for vital activity of the human body and provides normal blood supply and stable work of all organs and systems and ensures good health.

The beginning of our clinic back in 1996 when Istyna Scientific Methodological Center was founded and developed advanced technology for ultrasound diagnostics.

The technology for examination of vascular system - arteries, veins, capillaries, is the basis of its activity. Gradually the application of new technologies extends to the psycho-neurological, cardiac and other diseases. Severe pathology in patients, who turned to us, needed the introduction of complex diagnosis, medical treatment and psychological treatment, social rehabilitation of patients to achieve full results - significant improvement of their health or recovery.

Today, increasingly you hear a new term - preexisting diseases. It is used to denote a state when the disease does not still reveal itself. At this stage nothing can be detected by a phonendoscope of a physician or a neurologist's hammer, but the man feels discomfort or weakness. Therefore, it is important to develop new sensitive examination methods by which already at the stage before the disease a doctor can objectively determine the status of the patient. The doctor receives, so to say, more eyes and ears to check what happens inside the human body. Profound and diverse professional knowledge and great experience play significant role. The supervisors of the clinic have such knowledge and experience; they are experts on the problems of high blood recovery treatment. The integrated survey allows finding the cause of the disease and making correct and complete diagnosis, obtaining successful results. Only knowing in detail the current status of a patient and regarding his personality, the doctors determine how to improve the condition of a particular patient.

Our experts aim to introduce advanced research achievements as quickly as possible into practice and find new ways to treat disease. We can restore normal state of those who complains of frequent headaches, sleep disturbances, feeling discomfort or early signs of widespread chronic fatigue syndrome.

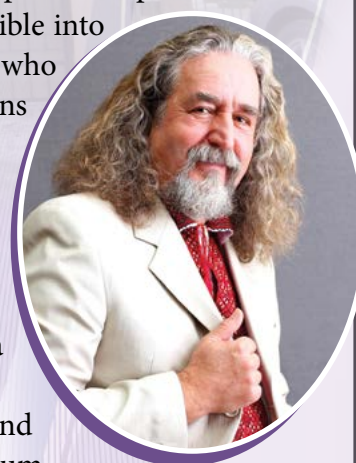
Our motto - «Only positive end result».

Over the last decade applying innovative methods our doctors succeeded to return to life patients, who are still in the traditional approach considered as «futile». Significant progress can be noted in particular in the treatment of diseases such as convulsions, multiple sclerosis, cerebral palsy, mental retardation, autism, dementia and long coma.

Integrated rehabilitation with intensive drug therapy in this case has several steps and aimed at reaching by a patient the minimum level of self-service, as well as maximum - social and vocational rehabilitation.

It has long been time to realize that taking care of their health, each of us doing good work not only for ourselves, but for everyone and brings so dignified future for their country.

Thus, we wish you health!



***Scientific advisors of the Clinic of Healthy Vessels  
Ulyana Lushchyk and Viktor Novytskyy***

## STRUCTURE OF CLINIC

### SCIENTIFIC CONSULTANTS



Supervisor in the Clinic of Healthy Vessels,  
corresponding member of Academy of Technological  
Sciences of Ukraine MD,

**U.B Lushchyk.**

Supervisor the Clinic of Healthy Vessels on  
mathematical modeling of circulation, Academician  
of the European Academy of Natural Sciences, Doctor  
of Science, Professor.

**Novytskyy V.V.**



**Psychiatrist, MD  
Pylyagina G.Ya**

### MEDICAL AND NURSING SERVICE



### PSYCHOLOGICAL AND LOGOPAEDIC SERVICE





## OF HEALTHY VESSELS

**Chief Doctor  
I.P. Babii**



**Executive Director  
V.V. Leonova**



**Medical Administrator  
Romanchenko A.S**



### REHABILITATION SERVICE



## COMPLEX DIAGNOSTICS

### MOTIVATION - TO KNOW THE REAL STATE OF THEIR HEALTH

#### ● COMPLEX DIAGNOSTICS



- Review of a therapist
- Review of a neurologist



- Psychologist's consultation
- Rehabilitator review



- Speech therapist's consultation

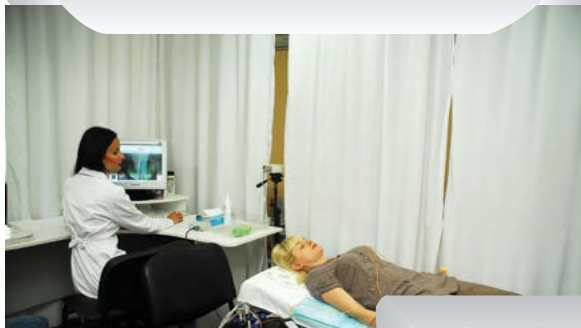
In the interest of a patient to perform all prescriptions. Many times it happens that after some treatment and feeling better the patient stops treatment and medical supervision. However, serious disease should be treated for a long time, only then he desired effect can be achieved.



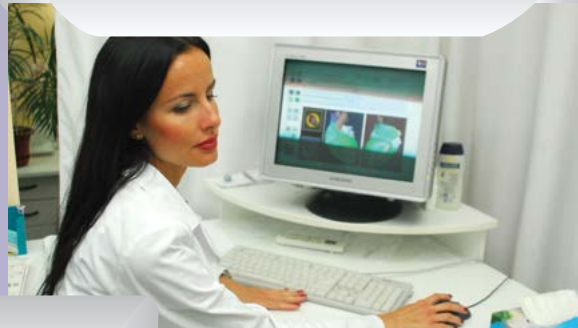
## COMPLEX DIAGNOSTICS

### AND UNDER THIS PLAN THE LIFE AND ACTIVITIES

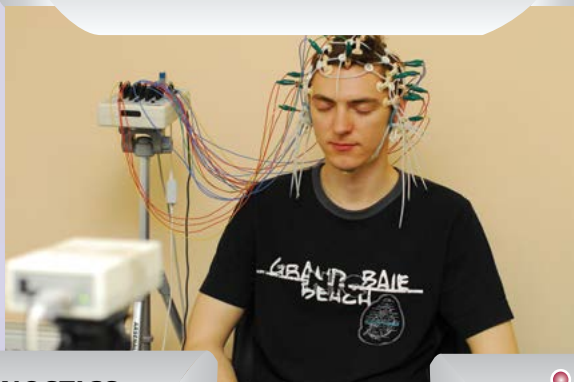
#### ELECTROCARDIOGRAPHY



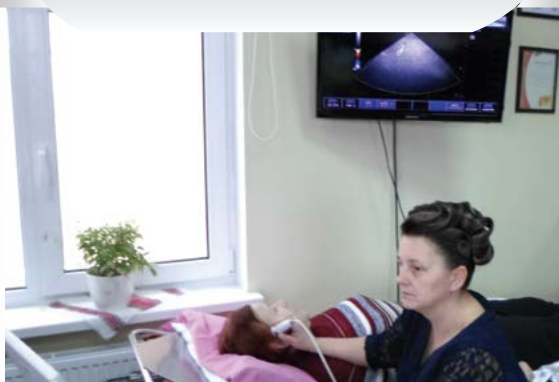
#### PULSOXIMETRY



#### ELECTROENCEPHALOGRAPHY



#### ULTRASOUND DIAGNOSTICS



- Brain and neck
- Vessels in limbs
- The spine and joints
- Internal organs and heart
- Pelvic

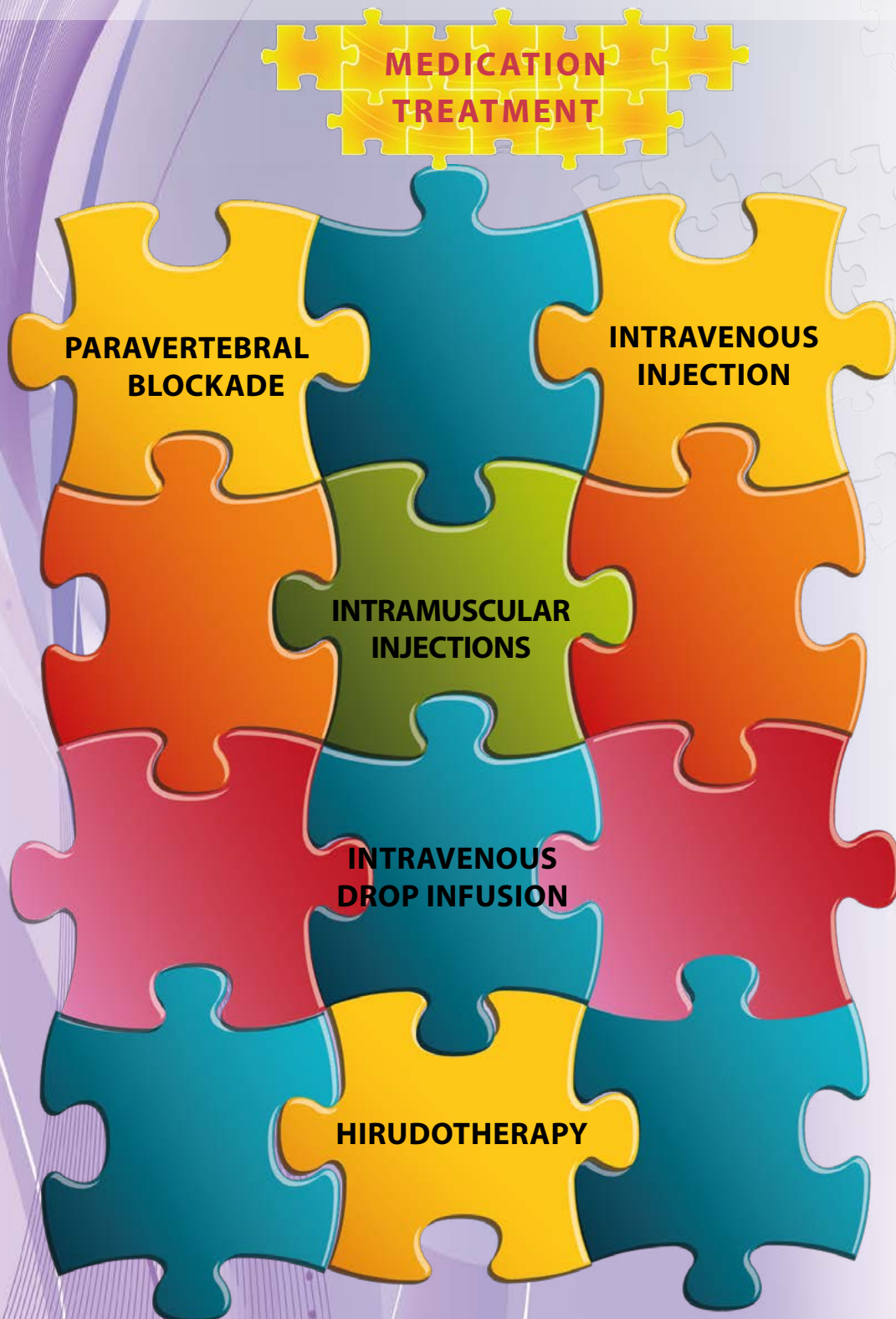
#### VASCULAR SCREENING TECHNOLOGY



This comprehensive diagnostics is carried out **within one day**.  
After a comprehensive review the experts determine the most effective scheme of medical treatment, reaching out through the use of appropriate medical equipment and dose combination of drugs for each patient.

## TREATMENT PROCESS

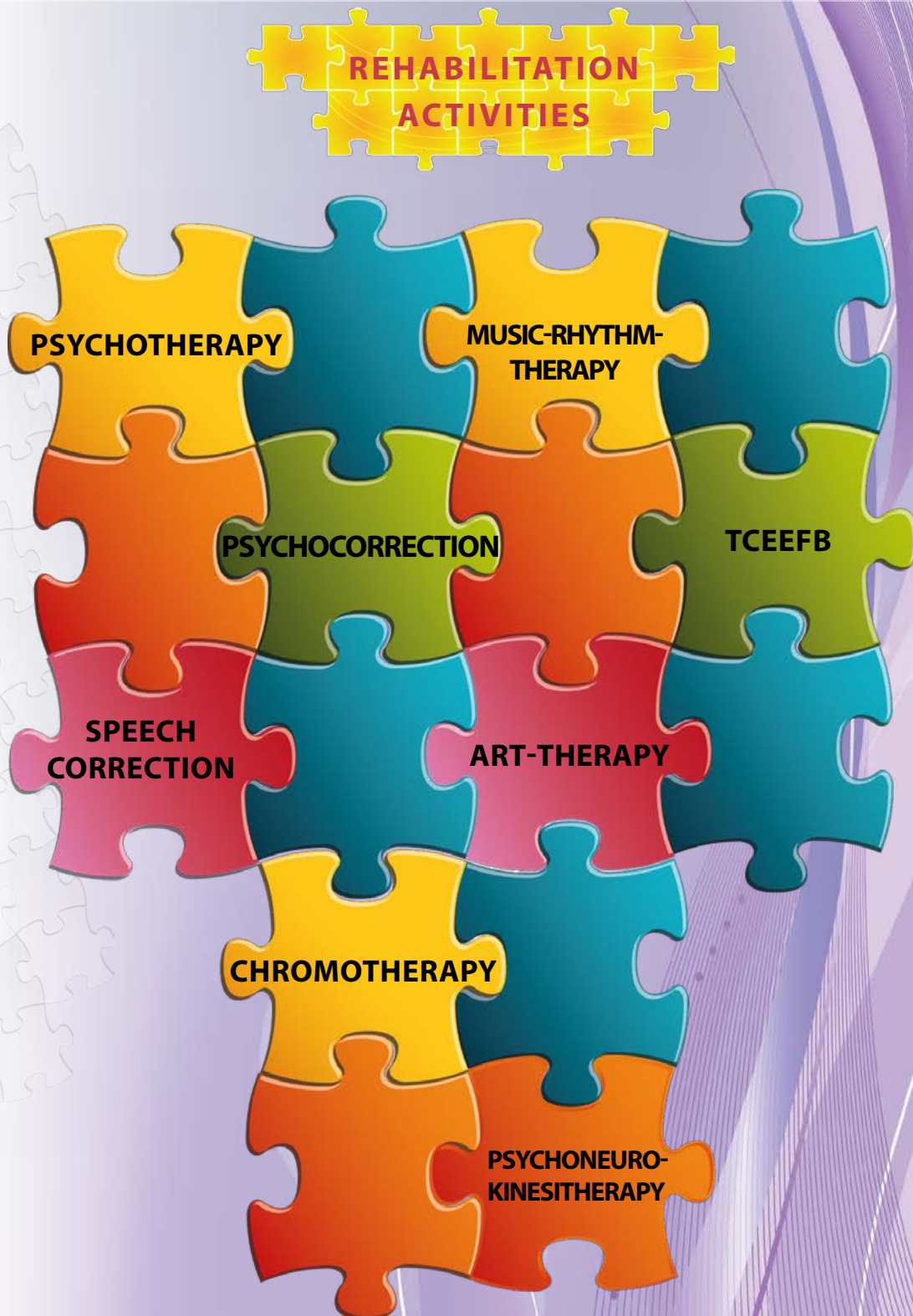
MOTIVATION - TO IMPROVE THEIR HEALTH





## TREATMENT PROCESS

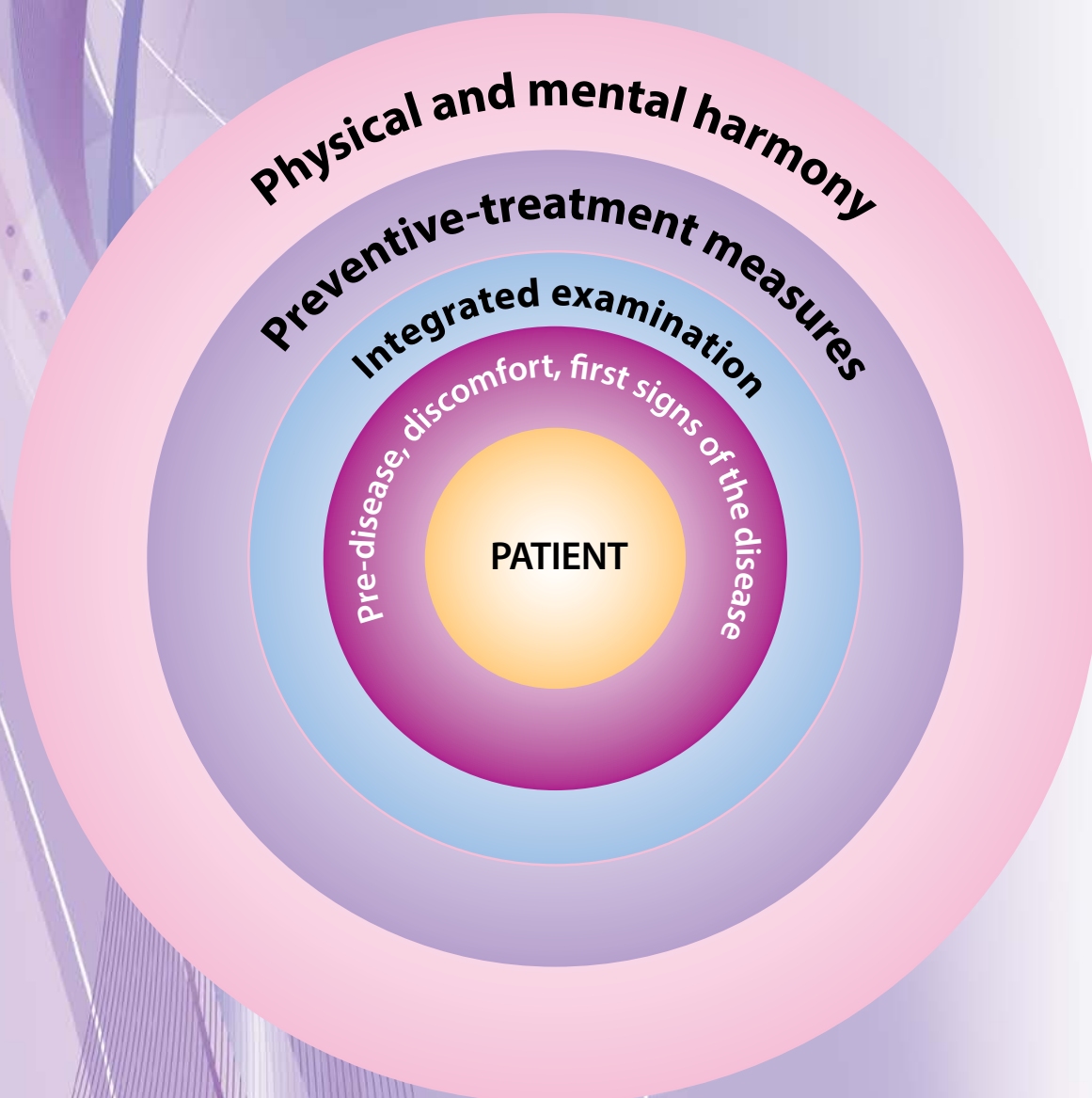
TO BE ABLE TO FULLY LIVE AND WORK



## PROPHYLACTIC TREATMENT

Respect to yourself begins with respect to your own body. The best, without waiting for the manifestations of disease, take care of the health and undergo a thorough examination to identify the weak links, and then - the appropriate treatment. This makes you live and work by preventing the occurrence of unfortunate situations related to unexpected illness.

### PROPHYLACTIC TREATMENT OF HEALTHY PATIENTS WHO WANT TO IMPROVE THE STATE OF THEIR ORGANISMS



According to the WHO, health - a state of complete physical, mental and social well-being and not merely the absence of disease or defects



## THE MAIN ACTIVITIES OF CLINICS

- **COMPLEX DIAGNOSTICS**

- **INDIVIDUAL APPROACH TO TREATMENT OF EVERY PATIENT ON THE BASIS OF EVIDENCE-BASED MEDICINE**

- **INTEGRATED REHABILITATION CARRIED OUT BY THE TEAM OF SPECIALISTS.**

**SCIENTIFIC RESEARCH WORK**

**PATENTING OF  
INNOVATIVE TECHNOLOGIES**

**TRAINING DOCTORS OF  
INNOVATIVE MEDICAL  
TECHNOLOGIES**

**LEGAL SUPPORT OF  
TREATMENT PROCESS**

**MANAGEMENT OF QUALITY  
OF MEDICAL SERVICES**

**CONSUMER SERVICES**

## OUR ACHIEVEMENTS

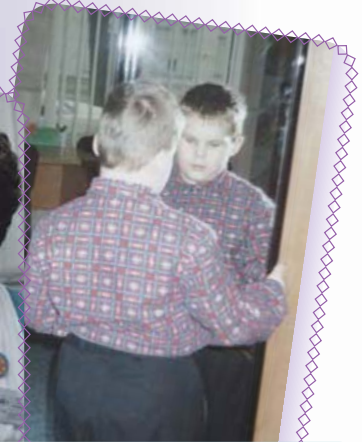
Tetyanka G. successfully completed first grade. Today it is difficult to believe that in two years the girl did not speak, just afraid, needed constant care of her mother. It felt given the consequences of a car accident, which hit a child. However, doctors have given hope of recovery, and due to complex treatment Tetyanka a few years reached the level of age development.



Maxim T. managed to stop epilepsy seizures for a period longer than five years.



The brain tumor caused deterioration in vision in Anton D. After surgery, vision is not recovered. Despite the complexity of this case was some progress, blindness began to retreat.



As Arthur developed deaf. Thanks to treatment we achieved positive results in restoring hearing.



Aching with multiple sclerosis, Helen B. was disabled and groups bedridden. Six-year rehabilitation program successfully completed, but regular exercises are needed to secure progress in fighting with the disease.





## OUR ACHIEVEMENTS



Several years ago, Irina V. and Diana Sh. felt doomed. In addition to delays in psychomotor development, both also suffered from phenylketonuria and attention deficit. The long rehabilitation has given good results.



Sasha was stopped loss of vision.



Andrew P. was considered as incurable, as a result of treatment he could attend regular kindergarten with other children



Tanya B. has Down syndrome. But we have showed that it is possible to improve condition of the child even with this diagnosis.





## OUR ACHIEVEMENTS



Because of meningoencephalitis in Sasha the deafness started to progress. He also had psychospeechmotor delayed development, convulsive syndrome and secondary autism. Several intensive courses of complex treatment got noticeable improvement.



Lyubochka G. has complex diagnosis: cerebral palsy due to brain damage by cytomegalovirus infection and perinatal encephalopathy, severe delay in psychospeechmotor development. Despite this severe pathology the child's condition was improved significantly.



Intensive combined treatment allowed to partially restore vision and develop speech in Sergei B.



A year of an individual defined treatment - and severe lesions in small Maxim and Nikita R. recede.



## OUR ACHIEVEMENTS



Victor S. delays in mental and intellectual development. It was possible to achieve positive changes, particularly to overcome low self-evaluation, the guy feels more confident.



In twenty years, the patient learned to count. He found the work to which willingly making hand beaded three-dimensional pictures not only delight but also a real opportunity to earn a living.



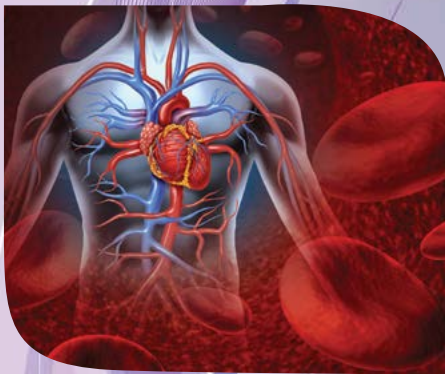
He made a gift for the clinic as a sign of recovery - own graven image of the girl on a tree.



Patient even in thirty years can be treated; it's not too late to learn: in our Centre every patient receives perspective for improvement of life quality.

## INNOVATIVE MEDICAL TECHNOLOGIES

### HEMODYNAMIC MONITORING



*Monitoring* involves the systematic monitoring and evaluation of the various processes and phenomena. It allows you to track the particular patient and thus have accurate and timely information about the state of his health.

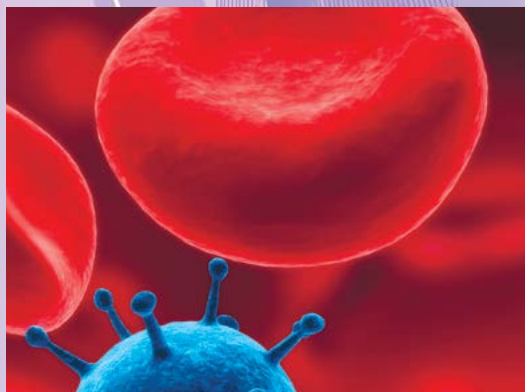
Now cardiovascular system came out on top in the world for prevalence. Despite the considerable efforts of scientists and doctors of people with cardiovascular disease and mortality among them is not reduced. Today all this makes the disease one of the major health problems. To get closer to its solution, we must thoroughly study the functioning of the heart and blood vessels.

Cardiovascular system comparable to running water in the house. It is the closed integrated system of tubes, which can be called as a blood-pipeline. The main function of vascular blood-pipeline to create all conditions for the continuous blood flow and deliver it to the organs and tissues. This circulation is the basis of life living organism.

The capillary system is one of the important parts of the bloodstream that provides organs and tissues with all substances necessary for life. Large vessels deliver the substances that pass into the tissue in the capillaries and simultaneously transfer the metabolic products from tissue into the bloodstream. As capillaries are the ultimate link of blood supply, their state is crucial for the assessment of the entire circulatory system. That is why the early detection of microcirculation problems is important for prediction of the development of cardiovascular disease and their effective treatment. A deep knowledge about functioning not only of the arterial blood flow but the mechanisms of formation of venous outflow makes a new view to failures in the capillaries regarding arteriovenous balance. Comprehensive study of the functional state of the cardiovascular system and individually prescribed treatment require a single set of devices for the study of the

human circulatory system at the macro- (blood vessels) and micro-levels (capillaries).

Experts in the Clinic of Healthy Vessels have combined modern medical equipment, specially designed software and a unique research methodology and can obtain qualitatively new information that enables to evaluate the functioning of blood vessels on the whole, but not just to fix some numeric indicators. This technique has been used since 1997.



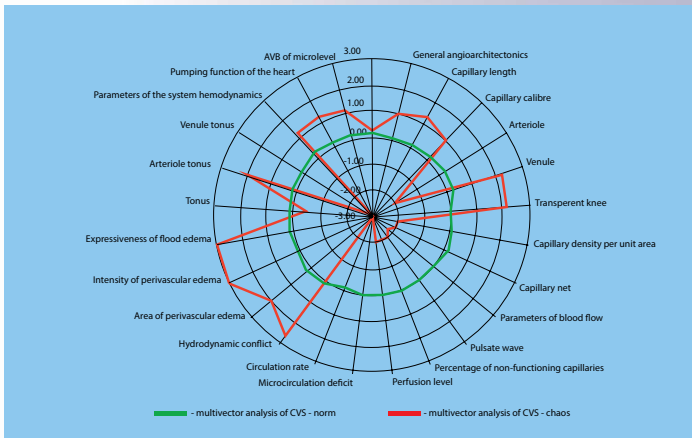
**THE DEEP PROFESSIONAL KNOWLEDGE + NEW TECHNOLOGIES = KEY TO SUCCESS**



# INNOVATIVE MEDICAL TECHNOLOGIES

## VASCULAR SCREENING TECHNOLOGY

**Vascular screening technology - a modern innovative method for fast evaluation of the cardiovascular system.**



*Screening* in medicine is a system of initial examination of certain groups of individuals to identify cases.

*Innovation* - the embodiment of scientific discovery, technical invention in a new technology or a new kind of product, which leads to a qualitative increase in the efficiency of processes or products. Innovation is the result of scientific and technological progress and the development of invention and rationalization.

Observation of the capillary bed is contactless through the patient's skin i.e. without disturbing the integrity of the skin and painless.

The obtained image and video processing are based on the calculation of flow parameters, allowing to assess the stability of the heart and blood vessels and the level of blood supply for organs and systems in the body of the patient.

The software for vascular screening technology uses mathematical models of innovative vascular technologies developed by supervisors in the Clinic of Healthy Vessels - Ulyana B. Lushchyk, MD, and Viktor V. Novytskyy, Prof., Dr.Phys&MathSc

**Satisfactory microcirculation picture shows the normal functioning of the cardiovascular system in different segments: heart - the main arteries - peripheral arteries - arterioles - capillaries - venules - peripheral veins - main veins - heart.**

Vascular screening technology is the newest method for diagnosing a wide range of diseases and for monitoring the effectiveness of treatment by using electronic computer technology and mathematical models of various pathological conditions.

### THE MAIN ADVANTAGE OF THE METHOD

- The patient can observe the blood flow in the capillaries himself, forming a high degree of confidence in his doctor
- This method gives the patients an opportunity to understand their problems associated with the state of the circulatory system
- During the test both the doctor and the patient can together discuss tactics and prospects of the treatment
- Virtually eliminated the establishment of a false diagnosis, there is a high predictability of the effects of the disease
- In severe cases, the treatment regimen is adjusted based on the evaluation of the effectiveness of the therapy



Vascular screening used in therapy, cardiology, neurology, pediatrics, psychiatry, oncology, dentistry and others.

## NEURODYNAMIC MONITOR AND CONTROL CHANGES IN BRAIN FUNCTIONING

The method of recording potential electrical activity of the brain called «electroencephalography» is known long ago. Deep knowledge about the brain and the latest diagnostic technologies made possible to get much more information about its functioning. Any action - motion, speech, thinking etc. determines the brain as the highest coordination point. Therefore, it is important today to have the opportunity of the most detailed investigation not only of the brain, but also the body's hidden reserves in severe injuries. **«Neurodynamic laboratory with feedback»** makes it possible.



### EEG makes possible to:

- analyse brain functioning, determine the speed of its reaction
- predict changes in emotional state, evaluate the spare capacity of the brain during stress;
- monitor effects of medications during the course of the personalized treatment;
- investigate the response to external factors, apply various audio and visual stimuli.

It should be noted that the method of EEG is harmless and painless. Before the study the patient must be relaxed and comfortably placed in chair with eyes closed and head hair to be washed clean and without polish.

**TCETFB** – computer diagnostic-therapeutic complex of transcranial electrotherapy with feedback. TCETFB restore the broken function of the human body, strengthening and harmonizing the work of neural networks. Continuous registration and automatic analysis of EEG and ECG provides high quality diagnostics and efficient therapy.

### TCET enables to:

- reduce response to stress;
- increase the adaptive capacity of the organism;
- normalize the brain;
- evaluate the body's reaction to electric influence by a type of a feedback

### THE METHOD ESSENCE

The slight electrical signal with certain parameters affect the median structures of the brain, which, in turn, give the signal to «start» the process of restoring the normal functioning of the body system.

This allows mobilizing the hidden possibilities of the body, in particular to intensify activities of its adaptation and immune systems.

## TCETFB - therapy is a universal for treatment or rehabilitation of patients with different pathologies

### Features of TCETFB therapy:

- no adverse reactions and complications;
- strengthening resistance to stress and disability;
- improve the quality of practical skills by 25-40%;
- increasing the efficiency of their professional tasks in 1.5-2 times
- improve clarity and coordination when performing professional tasks;
- reduction by 50-80% of all drugs used in various diseases.

### Application:

- Traumatology
- Allergy
- Gynecology
- Urology
- Neuropsychiatry
- Speech therapy
- Preventive medicine

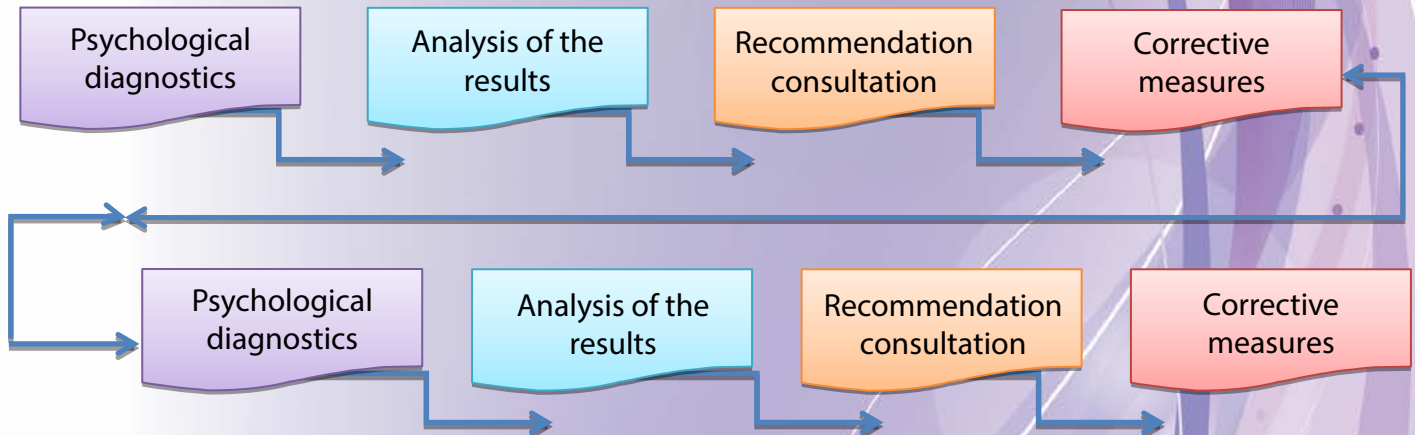


## INNOVATIVE MEDICAL TECHNOLOGIES

### PSYCHOLOGICAL MONITORING: CONTROL OF BEHAVIOR, PSYCHO-EMOTIONAL AND CHARACTER CHANGES

**Psychological monitoring** - complex technology that combines diagnosis, consultation, correction for a single effective system of psychological tools that make it possible to flexibly and effectively implement special accompaniment of psychological help.

**Psychological monitoring task** – to get as much information about the patient's psycho-emotional state.



### PSYCHOEMOTIONAL STATE OF THE PERSONALITIES

#### Cognitive sphere

(perception, memory, thinking, attention) its dynamics at the time of examination of patients on admission to treatment, after the first half of the course and in discharge



#### Motivation sphere and dynamics of its development

#### Emotional & volitional sphere

(level of anxiety and activity) and its influence on the patient's life and work



#### Personal sphere

(Self-esteem, need in achievements, communication, value orientation) and the dynamics of its development

Examinations of people, their behavior and personality traits are difficult and responsible task. Psychological monitoring allows detecting changes that occur in the structure of the individual, his behavior and development. It is based on observation in order to determine and correct psychological state. Psychological monitoring enables to collect, store and process information on the personal characteristics of the patient to track individual psychological development and test corrective programs based on the results of diagnostics.

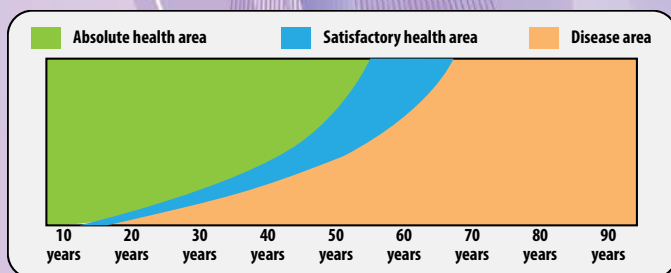
## SOMATIC MONITORING: FUNCTIONAL RECOVERY OF ORGANS AND SYSTEMS

Medical science, which originated thousands years ago, is intended not only to treat patients, but also to stay healthy and to help those who care about their own body. The self-control should be daily and timely - at work, on vacation, on the road, during training etc. In case of any deviations from normal, uncomfortable or even painful manifestations you should refer to the more complex control methods, i.e. monitoring hardware and first of all vascular monitoring. Because their functioning influences the work of any organ or system. Please note that laboratory tests may be within the norm.

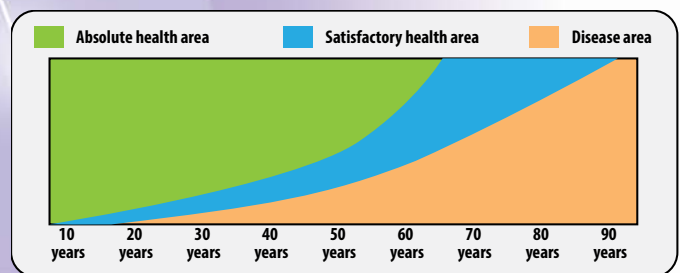
It is better to start with the simple, available and clear to the patient - ultrasound diagnosis. Everything is clearly visible on the screen, the doctor examines a particular organ, explains and comments the image, helps to understand the problem and find ways to solve it. If it is a Doppler ultrasound, the vessels with different «voices» tell about themselves, giving a lot of interesting information for experienced professionals. The smallest vessels can be seen with the capillaroscope, and they are also can give much information directly related to your health. The value of monitoring of the vascular system particularly increases during treatment because allows if necessary to correct the process and after completion to help predicting, paying attention to and beware of anything that can harm your health in future.

The purpose of physical monitoring on any stage is to identify the level of health and illness. Appropriate treatment, diet, a certain system of diet, active way of life, healthy lifestyle significantly shortens the path to restoring the comfortable feeling. Thus, promptly started monitoring the vascular system speeds up recovery in several times regardless of the nature and severity of the disease, and prevent worsening of the disease at any stage of development.

Innovative approach to control the vascular system has changed views in prevention, treatment and rehabilitation, and showed that these three components of restoring the physiological condition of the patient is the only unit of medical care. The diagrams below show changes in human life in case of checking his vascular system and appropriate treatment. Optimum effective approach to such monitoring can be defined for everyone according to the state of his health.



The nature of human life without observation of the vascular system and appropriate treatment



The nature of human life with observation of the vascular system and appropriate treatment



## INNOVATIVE MEDICAL TECHNOLOGIES

### NEUROLOGICAL MONITORING: FUNCTIONAL RECOVERY OF THE NERVOUS SYSTEM



The nervous system, like other systems of the body has internal and external reserves. Anybody can operate in unstable conditions, appropriate stimuli contribute to its development and excessive may destroy. However, there are no other levels of security on the external effects on the body as a whole. Personal reserves involve survival at average stimuli level. Aging is the inevitable force that affects the body. The nervous system, fortunately, is not the primary link that reacts faster than others to this process.

The beginning lies in the cardiovascular system. So the first troubles in the nervous system are signals of a threat to your health, which at least should make you think how to act while there is still time to change the situation.

Sensations come to us through receptors and emotional sphere. Reserves of the nervous system allow us to consider and understand what could be worse, and decide on the treatment in the so-called sub-compensation state when the «self-preservation» button goes off. In this state, moreover in a state of de-compensation of the nervous system, and it may be too late. This is one of the nature errors regarding us, because the human does not have time to recover in time.



The latest medical screening technology proves useful, created owing to profound analysis of systems for saving of comfortable life and its maximum elongation (up to 90 years). Careful study of the vascular system using modern diagnostic equipment is usually sufficient to determine what happen and how to proceed. Here experts should say who know how to recover first the vascular, and then the nervous system to normal state.





## INNOVATIVE MEDICAL TECHNOLOGIES

### METEOSENSITIVITY



The existence and human activity are inseparably linked with the influence of environmental factors on the body. Being a living system it has to change its blood pressure in response to changes in atmospheric pressure, humidity, air temperature, wind speed and more. Sharp fluctuations in these quantities in a short period of time can lead to failure in the functioning of various organs and systems, causing vascular and hypertensive crisis, seizures, headaches, etc. Problems can also occur when changing phases of the moon, often under the full moon. The fact that a person is sensitive to atmospheric

fluctuations is known for thousands of years. The most critical weather changes respond to those who suffers from cardiovascular and bronchopulmonary diseases and pathology of the musculoskeletal system, children and the elderly.

The environmental conditions are constantly changing. The day comes after the night, the spring after the winter and so on. The functioning of the human body is changing with every change of the natural environment. If these changes are regular and the human have adapted to them, the body safely reconstructed. If it weakened by any illness or other reasons, the adaptation to new conditions is not only difficult, but also ironic. In this case the man either feels discomfort or even a real threat to his health, in serious cases can be critical to life.

Persons, who are sensitive to weather changes, are called as meteorolable. Even there is a special term - «Meteosensitivity.» Some incessant rain, strong wind, low atmospheric pressure, cold, heat and sharp change in weather can be the triggering mechanism. The symptoms are different: depression, sleep disturbances, fatigue, attention worsening, exacerbation of chronic cardiovascular diseases etc.

Some adverse weather conditions provoke developing of reactions not only in ill persons but also in practically healthy people who have high meteosensitivity. Our research for over the last years has proved that metrological factors can provoke significant changes in the human body and sensitivity to weather factors indicates problems with health. The more unbalanced system, the more sensitive it to the minimum meteo-changes.

Meteorolable people should carefully take care of their health to prevent severe reactions to changes in the environment.

Unexpected reaction of 20-year-old Maxim G. (diagnosed epilepsy) remains a mystery to us that occurred between Katrina hurricane and typhoon on Sakhalin: after a two-year break a young man had frequent seizures for one month, which suddenly disappeared.





## INNOVATIVE MEDICAL TECHNOLOGIES

### THE INFLUENCE OF VARIOUS METEOROLOGICAL FACTORS ON PEOPLE



#### Atmospheric pressure

Atmospheric pressure is characterized by severe periodic fluctuations. While decreasing of the atmospheric pressure gases in the gastrointestinal tract are expanding, which leads to stretching of organs. In addition, high standing diaphragm related with low pressure can cause difficult breathing and violations of the cardiovascular system.



#### Ambient temperature

Since the normal body temperature in humans is constant and ambient temperature is changing all the time, the body has to change quickly the level of heat.

Thermal overload in humans may cause poor circulation, blood clots and overloading of the central nervous system



#### Magnetic storms

Geomagnetic changes greatly affect us. They influence people suffering from heart disease, nervous system and so on. From time to time there are powerful explosions in the sun, which resulted in ejection of streams with charged particles into interplanetary space. When they reach the magnetic shell of our planet they interact with it and cause magnetic storms. They beat the most vulnerable areas. Some chronic diseases exacerbate, someone suffers from migraine, heart pain or depression. Magnetic storms are especially serious to patients with heart diseases, overweight people and with vascular disorders. These days the number of heart attacks increase in 3.5 times, stroke – in 2 times, stenocardia in 1.5 times.



#### Air humidity

Patients with hypertension and atherosclerosis are sensitive to high humidity. At high relative humidity there is an aggravation of diseases of the cardiovascular system. Sometimes rainy days leave the park even in appearance, often the face becomes pale. The influence of humidity on the human body is inextricably linked to air temperature. High humidity increases adverse influence both of high and low temperatures.



#### The wind influence

In cool weather it is especially felt considerable humidity cunning. Moreover, when it is windy, the wind always picks up heat from the body and layers of dried air and catching new portions of damp and cold air and increases the cooling of the body. Also, the wind has a big influence on people with mental disorders. Thus, the largest number of suicides is registered in windy weather.



#### Impact of the Moon phases

The Moon that in 27 million times smaller than the Sun and is in 374 times closer to Earth has significant impact on natural phenomena and livelihoods of people on our planet.

Lunar cycle consists of four phases, which are associated with the position of the moon relative to the Sun. The new moon is a unit of the sun and the moon and the full moon is their opposition. There are two forms of the Moon influence - when it increases and when it decreases.

### METEO-TECHNOLOGICAL COMPLEX WITH FEEDBACK EFFECT

The meteo-technological complex due to special sensors helps to monitor changes in the cardiovascular system.

This allows you to record all weather changes and monitor the patients' state, who may have significant health deterioration even at slight fluctuation of certain indicators.

## INNOVATIVE MEDICAL TECHNOLOGIES

### SCREENING OF ISCHEMIC MYOCARDIAL CHANGES TO PREDICT RISK OF HEART ATTACK AND STROKE



*Ischemia* - reduction or complete cessation of blood supply to the tissues, which leads to lack of oxygen and glucose necessary for normal metabolism.

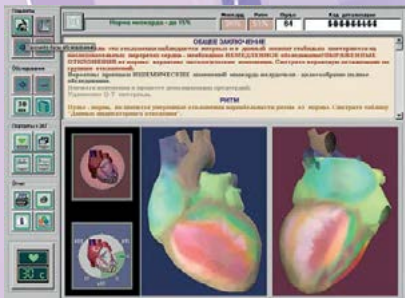
Complex for rapid diagnosis of ischemic heart uses a unique control method (less than one minute without taking off the patient's clothes) of heart condition, based on the latest computer technology highly sensitive ECG with the ability to visualize «a portrait of the heart»: the green reflects the normal state of the myocardium, and the red color spectrum in a wide range - an increase of myocardial ischemia signs. The Clinic of Healthy Vessels has used this complex since 2000.

Benefits of highly sensitive ECG compared with regular ECG:  
high information at minimal myocardial ischemia signs and pre-heart attack states.

#### The complex enables to:

- detect early, most important stages of pathological changes in coronary heart disease, hypertension, heart diseases, poisonings and other diseases;
- provide test results in an easy to understand form - as a visual «portrait of the heart» and a set of classic ECG parameters;
- implement screening assessment of the probability of the presence of myocardial ischemia;
- provide a new level of sensitivity, inaccessible to conventional ECG analysis.

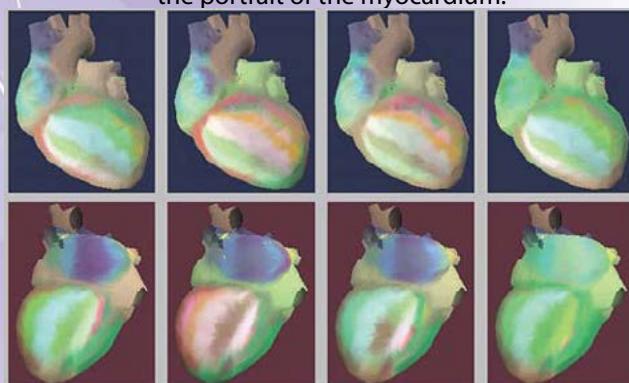
All this leads to a high degree of patient confidence and understanding of the changes in the «portrait of the heart» dynamics.



Examples of "portraits heart" dynamics in the process of treatment.  
Diagnosis: rheumatic heart disease. The dynamics shows clear tendency towards normalization of «portrait of the heart», green index growth in the portrait of the myocardium.



«Portrait» of the normal myocardium of the right and left heart sections. Green color indicates the variant of the norm.



background    treatment beginning    two weeks of treatment    at the time of check-out

**Precision deciphering ECG charts due to color heart portrait is clear and convenient both for the patient and for medical staff.**

This technology can detect minor violations that cannot always be detected by conventional ECG characteristics, in this case indicate the progression of myocardial lesions at the initial stage of formation of ischemic heart disease and myocardial infarction.



## INNOVATIVE MEDICAL TECHNOLOGIES

### INNOVATIVE TECHNOLOGY FOR TREATMENT OF VASCULAR PATHOLOGY

For twenty years the experts in the Clinic of Healthy Vessels have successfully treated vascular brain pathology and provided intensive neurorehabilitation of neuropsychiatric diseases in people of all ages. Unique innovative technology for research of the brain vessels and restore of adequate blood supply for the brain in infants and children with birth injuries, cerebral palsy, autism, mental retardation, delayed speech and psychomotor development, convulsive syndrome is characterized by a high degree of efficiency and stable results. They have developed programs for diagnosis and treatment of vascular dystonia, angiospasm, headaches in teens and adults, preventive treatment of cardiovascular disease to avoid strokes, neurorehabilitation of critically ill patients to the level of self-service (minimum program) and professional and social adaptation (program- maximum).

### MODERN MEDICAL TECHNOLOGY IN HANDS OF PROFESSIONALS

New medical technology has created a new trend - the creation of modern diagnostic equipment for the needs of practical medicine.

This trend is gradually formed in the clinic development. Life itself demanded this because existing medical diagnostic equipment does not always take into account the needs of the present and modern approaches to diagnostics.

Years of experience of our clinic have showed that superb modern medical equipment in the professional hands enables to obtain comprehensive information about the patient.

Therefore, the use of modern diagnostic techniques and new medical technologies along with deep knowledge of our expert team is the key to success in treating even the most severe patients.

#### Modern medical technologies provide:

- determination of blood supply at different levels;
- comprehensive approach to diagnosis and treatment;
- comprehensive analysis of the obtained diagnostic data.



## INNOVATIVE MEDICAL TECHNOLOGIES

### SCIENCE TECHNOLOGY OF XXI CENTURY - INTELLECTUAL PROPERTY OF OUR CLINIC

Protected by State Patent of Ukraine



Method of ultrasound diagnosis of the cerebral vessels. Patent № 10262 A on 19.07.95



Angioarchitectonics of regional assessment method. Patent № 67707 A on 31.12.03



Assessment method of gray-scale scan. Patent № 67708 A on 31.12.03



The assessment method of microcirculation disorders in normal and pathological conditions in people of all ages using the capillaroscopy. Patent № 67709 A on 31.12.03



A method of treating seizures. Patent № 71505 A on 31.12.03



Application of drugs' combinations to correct arterial-venous imbalance. Patent № 72868 A on 31.12.03



Neurorehabilitation method for patients with apallic syndrome. Patent № 72725 A on 31.12.03



Tools for measuring capillary blood circulation. Patent № 22944 on 25.05.07



The device for vascular screening. Patent № 85052 of 11/11/201



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The medical care includes comprehensive integrated clinical and instrumental examination of patients of neuropsychiatric and vascular profile with individual selection of medicinal adequate treatment and the necessary psychological correction and rehabilitation. This approach makes it possible to effectively treat seriously ill patients, improve the condition of patients with a combination of different diagnoses and improve their quality of life.

Numerous unique techniques and protected patents are the main heritage of the Clinic of Healthy Vessels today. Because they manage to achieve significant positive outcomes even for patients, which were considered incurable according to generally accepted canons.

Patients, who come to us, often have different long standing illness. Therefore, it is mandatory to make comprehensive examination of all organs and body systems along with the identification of the affected parts of the body that function poorly. When these abnormalities are not detected on time, it can be various complications during treatment.

Severe patients require profound examination of the cardiovascular system, brain and spinal cord, internal organs, musculoskeletal system to determine treatment strategy. Particular attention should be paid to changes in the cardiovascular system. It is very important for the prevention of acute crisis that can occur in critically ill.

After a comprehensive check-up the results of instrumental diagnostics and conclusions the experts discuss the treatment plan, then it is agreed with the patient or his relatives, complete all necessary documents for legal support, and begin the healing process.

The duration of treatment and power loads are estimated according to the individual capabilities of the patient. The treatment is conducted with permanent monitoring of vital body functions.

It should be emphasized that patients, who considered as incurable by medical canons, in fact, need permanent neurorehabilitation work and regular progressive formation of new or renewal of lost functions of the brain, spinal cord and peripheral nervous system for a long time (from two to six years). Sustainable positive result can be achieved only due to long-term rehabilitation.

The Clinic of Healthy Vessels apply new techniques that accelerate achievement the treatment goal in three to five times compared with traditional methods and significantly increase the efficiency and stability of the results.

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**Andrew P., patient**

**Born in 2009**

**Diagnosis:** psychospeechmotor delayed development with dominated expressed deviations in behavior and attention deficit on the the backdrop of antenatal hypoxic-ischemic destruction. Mosaic development of higher cortical brain function by type of motor alalia, elements of autistic personality.

**Complaints:** lack of speech, irritability, compulsive movements, inability to communicate with the child (according to parents).

**Three courses of intensive neurorehabilitation.**

Neurological reviews before the first course of treatment: lack of productive contact, expressed anxiety and shyness, behavior inadequate, undifferentiated cries, the patient is nervous about the review, random movement around the room, biting his own hand, actively protesting against the actions of the doctor concerning reviews, the boy is red, then pale, visibly sweats.

**Neurological reviews at the end of the third course of treatment:** the boy can

distinguish role-meaning of people around him according to the situation, decreased signs of pyramidal deficit in number and severity, decreased symptoms of vegetative dystonia, movement became more directed and completed, began to form personal core, attention increased, communication reflexes improved, increased mental capacity, virtually disappeared obsessive movements, increased adaptogenity to new, cortical speech center develops without signs of delay.

**Rehabilitation data before the first course of treatment:** doesn't play, lack of understanding of the aid, unable to clap and others. Unable to play with a ball, to play with blocks, to take aim, to execute commands «hand up», «jump», disappeared fear of heights.

**Rehabilitation data at the end of the third course of treatment:** in the beginning of the lessons sits, puts off, after the exercise puts all used objects to their places, jumps, runs (imitation), «requests» assistance, rolls and passes the ball, makes a house of blocks, reveals positive emotions, signs of joint activities via imitation.

**Psychological examinations before the first course of treatment:** symptoms of severe mental delay, speech and motor development of the child on the background of autism.

**Psychological examination at the end of the third course of treatment:** significant qualitative changes in mental development, adequate contact, improved attention, small and large motor skills, perception, memory. The ability to play games is formed (simple and plot-role), understands instructions. Increased range of cognitive interests. Normalized behavior. Decreased compulsive movements and fears. Firmness appears to perform complex tasks. Well-developed speech: the boy tries to verbalize the actions and desires, active vocabulary increased.

**Speech therapist review before the first course of treatment:** severe delay of speech development, pronounces only individual sounds.

**Speech therapist review at the end of the third course of treatment:** there are positive changes like understanding direct speech, following the instructions for his age, articulation postures and start of phrasal speech.

**Ultrasound of vessels in the head and neck (ultrasound Doppler) before the first course of treatment:** dominant signs of the expressed deficit of cerebral circulation and cortical deficit in the projection of cerebral arteries on the background of hypoxic-ischemic brain damage in the form of hydrodynamic intracranial conflict, reducing of blood circulation in cerebral arteries, which leads to brain development with mosaic elements of autistic reactions, delayed speech development and behavioral disabilities. Reactivity of main arteries is preserved with expressiveness of vegetative vascular reactions.

**Ultrasound of vessels in the head and neck (Doppler ultrasound) at the end of the third treatment course:** improved level of blood filling and pressure of cerebral arteries; there is a moderate overload of the venous bed and therefore unstable level of intracranial pressure, which tends to normalize.

**Capillaroscopic study before the first course of treatment:** congestion of the microvessels and decrease of the intensity of circulation in the exchange capillary channel link, uneven blood filling of capillaries, edema around the vascular tissue.



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**Capillaroscopic study at the end of the third course of treatment:** improved flow characteristics, normalized capillary blood flow, decreased swelling around the vascular tissue.

**Electroencephalography before the first course of treatment:** high amplitude of polymorphic activity with signs of disorganization of biorhythms of the brain. Improper formation of neurodynamic brain activity with a shift in the direction of development in hyperergic direction with a delay of formation of quality characteristics of brain neural networks and deep and constant disorder of the brain activity.

**EEG data at the end of the third course of treatment:** formation of physiological trends of neural processes mainly due to the age increase of the frequency characteristics in the area of analysis and speech production in the cerebral cortex. It was succeeded to reduce signs of flashes of brain activity to avoid convulsive readiness. Overall electrical activity of the brain is positive and reflects the formation of normal activity by age, but with the short (1-2 seconds) of dysrhythmias that indicate periods of weakening of control over their own behavior.



**Sergei M., patient**

**Born in 2003**

**Diagnosis:** psychospeechmotor delayed development on the residual-organic background with expressed imbalance of the system of blood supply for the brain and delay in the formation of brain neurodynamics.

**Complaints:** delay of the child development, significant reduction of memory, clumsiness of movements of limbs, worse right, unsteadiness when walking, poverty of speech (says individual words and simple sentences), fear of all new (according to parents).

**Two courses of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** expressed disorders of speech, articulation, learning, mental retardation, space disorientation, anxiety in social contacts.

**Neurological reviews at the end of the second course of treatment:** improvement of speech and partly of the psychological sphere on the level of attention, perception, socialization, however, behavioral patterns delay.

**Rehabilitation data before the first course of treatment:** the perception of right and left sides is difficult, jumping, running uncoordinated, cannot play with the ball, high anxiety in class.

**Rehabilitation data at the end of the second course of treatment:** physical development is improved regarding speed and precision of movements. Patient performs his job with enthusiasm and a positive mood, endeavouring. Well manipulates with a ball, hoop, worse with a rope. Begins to play table tennis.

**Psychological examinations before the first course of treatment:** disorder of all functions of mental development that has mosaic nature and appropriate to the age of 3-4 years.

**Psychological examinations at the end of the second year of treatment:** improved memory, attention, perception, thinking, small and large motor skills, increased active vocabulary.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** significant lack of blood flow in the vertebral arteries, signs of intracranial hypertension in the anterior brain sections, unstable circulation in brain arteries, enlargement of the left lateral ventricle of the brain by 30%.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the second treatment:** increased pumping function of the heart, increased volume and circulation rate in the main arteries of the brain, moderately decreased signs of intracranial hypertension.

**Capillaroscopic study before the first course of treatment:** expressed signs of micro-circulation disorder, associated with congestion in venules, chaotic placement of capillaries, lack of blood circulation, low circulation speed and severe swelling around the vascular tissue.

**Capillaroscopic study at the end of the second course of treatment:** increased circulation velocity, diminished

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clots.

**Electroencephalography before the first course of treatment:** moderate signs of neurodynamic general decrease in activity caused probably by lack of blood supply for the brain and secondary caused energy deficiency. Too slow pathological activity as a result of oxygen starvation of the brain tissue.

**EEG data at the end of the second year of treatment:** positive dynamics, improved organization of activity of the brain responsible for mental activity, significantly reduced level of slow-hypoxic activity, electroencephalographic signs of decreased irritability and anxiety.



**Sasha I., patient**

**Born in 2003**

**Diagnosis:** cerebral palsy due to perinatal encephalopathy, organic lesions of the central nervous system in the form of severe speech delay, mild mental delay and statokinetic development with light spastic lower paraparesis, expressed dyslalia, poor hearing of III–IV degree and asthenic syndrome.

**Complaints:** lack of speech (in school due to the deaf), the inability to read and write well, weakening of attention, memory loss, mental

retardation, fatigue, excessive psychoemotional excitation, violation of walking, high muscle tone, poor coordination of movements during eating and dressing (according to parents).

**The first course of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** limited motor activity due to brain damage, lack of physical strength in the arms and legs, more in the right limbs, unsteadiness, unsteadiness when walking, the patient does not comply with the instructions, naughty, excessive playfulness, instable attention.

**Neurological reviews at the end of the first course of treatment:** patient pays attention to the examination, trying to fulfill the instructions, uses less gestures, increased muscle strength in the arms and legs, decreased the number and intensity of pathological symptoms, improved balance retention.

**Rehabilitation data before the first course of treatment:** the patient is unable to sit without taking the heels off the floor, unable to go attached steps, to move forward back, jump, hang on hands holding for 2-3 seconds, cannot manipulate with a ball, gymnastic stick, hoop, rope; dynamometry of the right hand 3 kg, vital capacity of lungs (VCL) 1100 ml.

**Rehabilitation data at the end of the first course of treatment:** good move attached steps and steps backward, jumping with a fit-ball is rhythmic, high enough, holds hands for 10 seconds, throw the ball better by the right hand, manipulates with gymnastic stick, twisting the hoop on right hand, scrolls rope in different planes; dynamometry of the right hand 5 kg, vital capacity of lungs (VCL) 1250 ml.

**Psychological examinations before the first course of treatment:** the level of mental development corresponds to mosaic 5-6 years of age. The boy is sensitive, but has memory, attention and, respectively, behavior disorders. Small vocabulary. The patient uses gestures and undifferentiated sounds strange to those around him. Withdrawn due to the inability to communicate.

**Psychological examinations at the end of the first course of treatment:** the patient has improved auditory and visual memory, increased active attention, but not clear speech, he controls his speech and gestures, starting and stopping, using them on request, substantially increased vocabulary, feels more confident, becomes more responsible for the implementation of the tasks, internal motivation to verbal communication with adults.

**Speech therapist review before the first course of treatment:** motor alalia.

**Speech therapist review at the end of the first course of treatment:** pronounces consonants s, g, ts, less clear pronunciation of v, f, ch, also the boy started to write words on hearing. Active self-speaking is not yet evolved. Reading is satisfactory with external control and correction.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** expressed angiospasm of arteries and venous congestion at the neck, permanent clear signs of increased internal intracranial pressure, abnormal discharge of blood from the main arteries of the head into venous sinuses of the



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brain, indirect signs of decreased blood supply in capillary network of the cortex.

**Ultrasound of vessels in head and neck vessels (Doppler ultrasound) at the end of the first course of treatment:** arterial link reaches age norm. Decreased dystonia of veins. Improved circulation. Signs of intracranial hypertension reduced. **Self-regulation of cerebral blood flow** has not yet been identified during the survey.

**Capillaroscopic study before the first course of treatment:** atypical congestive form for this age, characterized by venous overflow of capillary and venous congestion. Expressed tortuosity of venules and characterized by uneven diameter along its entire length. Blood condensed, increased permeability of capillary walls, swelling around the vascular tissue.

**Capillaroscopic study at the end of the first course of treatment:** marked positive trend with the restoration of physiological parameters and dynamic characteristics of complete disappearance of the pathological swelling around the vascular tissue.

**These electroencephalogram before the first course of treatment:** significant slow-wave activity due to oxygen starvation of the brain, continuous irritation as a sign of anxiety and a sense of emotional anxiety, acute waves up to hypersynchronization as a result of outbreaks over-excitation of the cerebral cortex. Moderately expressed convulsive readiness.

**EEG data at the end of the first course of treatment:** changes for the better in a certain slow-wave activity with no signs of dominance of waves with pointedness. Significantly reduced symptoms of anxiety and irritability on the background curve. Convulsive readiness is not found.



**Larissa K., patient**

**Born in 1965**

**The diagnosis:** multiple sclerosis. An invalid of group II.

**Complaints:** inability to walk, back pain, severe trembling of the left hand, fatigue, weakness.

**Four courses of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** severe disorder of leg movements and left hand, walking with the support of others, severe shaking of her left hand, impossibility to serve herself, fatigue, constant signs of acute illness, pain in the small of her back and coccyx.

**Neurological reviews at the end of the fourth course of treatment:** the patient walks confidently using walkers, moderate trembling of her left hand, performs various domestic actions, not tired for a long time, signs of acute illness disappeared, stopped pain in the small of the back and coccyx.

**Rehabilitation data before the first course of treatment:** dynamometry of the right hand 15 kg, vital capacity of lungs (VCL) 1500 ml, the patient cannot sit alone and cannot hold hands

up.

**Rehabilitation data at the end of the fourth course of treatment:** dynamometry of her right hand 23 kg, vital capacity of lungs (VCL) 2200 ml, the patient can squat 40 times near wall bars, holds hands up for 15sec.

**Psychological examinations before the first course of treatment:** expressed asthenic-depressive syndrome, low self-esteem, passivity, tendency to unfounded accusations, hope to find the «magic» cure for her illness.

**Psychological examinations at the end of the fourth course of treatment:** depression disappeared, stable positive emotions, the patient is confident, active for some time within limits of the disease, aimed at the treatment aim, complex neurorehabilitation has become some «magic» cure of the disease, although changes don't happen as fast as she would like.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** sharply reduced pumping function of the heart, expressed congestion in the veins, increased intracranial pressure, reduced by 40% of the blood supply to the cortex.

**These ultrasound head and neck vessels (Doppler ultrasound) at the end of the fourth course of treatment:** pumping function of the heart corresponds to age norm, significantly improved circulation in the veins, decreased intracranial

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pressure, blood supply for the cerebral cortex in the right hemisphere within the normal range, but unstable, in the left hemisphere – it is restored to normal.

**Capillaroscopic study before the first course of treatment:** slow blood circulation up to its stop in one third of capillaries, blood thickening, congestion in venules.

**Capillaroscopic study at the end of the fourth course of treatment:** active circulation, energetic and constant blood flow, arterioles are evenly filled with blood, venules are physiologically narrowed.

**Electroencephalography before the first course of treatment:** the amplitude of brain activity is reduced by 50%, dominated by waves of anxiety, inner tension, the brain responds to external stimuli by flashes of excessive excitement and further depletion.

**EEG data at the end of the fourth course of treatment:** amplitude activity at 80-100% of normal, dominated waves of working state of the brain, which alternate with periods of calm emotional waves, the brain responds to external stimuli with adequate activation with no signs of fatigue.

**See Also:** <http://www.youtube.com/watch?v=Q-wLNYIUL8>.



**Mary J., patient**

**Born in 1961**

**Diagnosis:** encephalopathy and II degree of cephalgic, vestibular-cochlear and asthenic syndrome on the background of signs of ischemic stroke occurred in the brain stem as vertebral basilar insufficiency with an emphasis on the right in 2008. Hypertension of II stage. Extensive osteochondrosis, spondylosis, spondylarthrosis of cervical-thoracic and lumbar departments with subacute intermittent lumbodinia and moderately severe muscular-tonic syndrome as a result of spinal injuries. Protrusion of C4-C5, C5-C6, C6-C7 intervertebral discs with signs of cervical radiculopathy.

**Complaints:** chronic fatigue, headaches, dizziness, noise in the head, unsteadiness when walking, high blood pressure, sleep disorders, periodic occurrence of dull pain in the lower back and knee due to the falling. Locally in the lumbar region there are changes of the skin as

a result of posttraumatic maceration.

**Two courses of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** emotional instability with dominance of irritation, and tearfulness, propensity to anxiety, scattered pathological symptoms concerning the functioning of the brain, loss of coordination, the drop in static tests, constant pain in the small of the back, limited motion in the spine, blood pressure 150/100, pulse 90 beats per minute.

**Neurological reviews at the end of the second course of treatment:** headaches and weakness disappeared, the patient is not staggering when walking, stands steady. Improved bearing and motor function of the spine, blood pressure 135/90, pulse 78 beats per minute.

**Rehabilitation data before the first course of treatment:** dynamometry of the right hand is 20 kg, vital capacity of lungs (VCL) 2300 ml, patient gets tired quickly, sweats excessively, there are shortness of breath, joint pain while performing exercise, overweight is 40%.

**Rehabilitation data at the end of the second course of treatment:** dynamometry of the right hand is 33 kg, vital capacity of lungs (VCL) 2800 ml, the patient can run for 45 minutes without fatigue, sweating adequate, dyspnea disappeared, joints during exercises do not hurt, excess weight dropped to 25%.

**Psychological examinations before the first course of treatment:** there is a tendency to depressive state, decreased attention, excessive emotional sensitivity, anxiety of post-stress disorder.

**Psychological examinations at the end of the second course of treatment:** there is a tendency to emotional calmness and confidence in the future, stability of mood and emotions.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** dominant signs of expressed deficit of cerebral blood flow in projections of all cerebral arteries on the background of deregulation



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of cardiovascular system and psycho-emotional instability.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the second course of treatment:** hemodynamic parameters of the arterial flow correspond to age norm, functioning of veins in the neck normalize during rhythmic breathing. Indicators of the arteriovenous balance within the physiological norm. Intracranial hypertension is not registered. Contains little spasm of the arteries in the neck.

**Capillaroscopic study before the first course of treatment:** there is blood congestion, capillary winding, entirely spasmodic, increased permeability of microvascular wall, edema around the vascular tissue.

**Capillaroscopic study at the end of the second course of treatment:** normalized circulation rate, selective spasms of arterioles, swelling around the vascular tissue decreased by 50%.

**Electroencephalography before the first course of treatment:** the low brain activity decreased with signs of periods of anxiety and further exhaustion, stress observed in non-significant activation of the brain.

**EEG data at the end of the second course of treatment:** 35-40% increased brain activity, stability, there are sometimes episodes of synchronization.

**See Also:** <http://www.youtube.com/watch?v=OBaWx7wuQtk>.



**Lydia K., patient**  
**Born in 1947**

**Diagnosis:** encephalopathy of second degree of mixed origin with cephalgic, vestibular-cochlear and asthenic syndrome, sleep disorders and motor instability. Extensive osteochondrosis, spondylosis, spondylarthrosis of cervical-thoracic and lumbar section with pain and muscular-tonic syndromes at the cervical section.

**Complaints:** headache with nausea, dizziness, unsteadiness in walking, memory reducing and hearing loss, sleep disturbances, unpleasant dreams, depression, tinnitus, pain in the heart.

**Two courses of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** unsteadiness when walking, pain during palpation of the spine, coordinator disorders, blood pressure 100/70, pulse 62 beats per minute.

**Neurological reviews at the end of the second course of treatment:** headaches disappeared, walking is stable and confident, sleep fast, sound sleep, spine doesn't hurt, remains moderate vestibular instability. Blood pressure 125/80, pulse 70 beats per minute.

**Rehabilitation data before the first course of treatment:** dynamometry of right hand 18 kg, vital capacity of lungs (VCL) 1800 ml, fatigue, shortness of breath, back pain during exercise.

**Rehabilitation data at the end of the second course of treatment:** dynamometry of right hand 26 kg, vital capacity of lungs (VCL) 2700 ml, back pain disappeared while performing exercises, no shortness of breath.

**Psychological examinations before the first course of treatment:** reduced operational and long-term auditory and visual memory, weakening of concentration, distribution and stability of attention on the background of chronic fatigue and asthenia, labile emotional state, increased anxiety.

**Psychological examinations at the end of the second course of treatment:** improvement in operational auditory and visual memory and concentration, distribution and stability of attention. Calm emotional state has positive spectrum. There is an optimistic prediction about the future.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** reduced blood flow in the vessels of the brain by 30-40%, weakening of the pumping function of the heart, the congestion of venous blood in the veins of the head and neck, arteriovenous shunting (tinnitus), compensatory spasm of the main arteries of the head.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the second treatment course:** dynamics is positive, increased amount of blood in the arteries by 20%, reduced congestion of blood in the veins to the age norm.

**Capillaroscopic study before the first course of treatment:** general spasms of capillaries, blood clotting, slow blood circulation, and insufficient blood supply in capillaries, edema around the vascular tissue.

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**Capillaroscopic study at the end of the second year of treatment:** the intensity of capillary circulation, its speed and rarefied blood correspond to organism younger on 15 years, slight spasm of arterioles, swelling around the vascular tissue decreased by 30% and become uneven.

**Electroencephalography before the first course of treatment:** inhibition of brain cortex with long periods of exhaustion on the background of sharp decline of activation influence of the reticular formation, flashes of anxiety, the impact of external stimuli impairs brain function by increasing the pathological waves as signs of oxygen starvation of the brain.

**EEG data at the end of the second course of treatment:** increased neurodynamics capacity, reduced frequency, duration and severity of periods of anxiety and exhaustion, slow waves during stress do not appear.



**Nina K., patient**

**Born in 1959**

**Diagnosis:** encephalopathy and II degree with frequent migraines, asthenic-depressive and vestibular disorders, sleep disorders. Hypertension of I stage. Complaints: periodic headaches, sometimes with nausea, mostly in the morning, dizziness, inability to lie on the side because of pain in the spine and shoulders, sleep disturbance as too early awaking at 2 or 3 at night, high blood pressure, palpitation.

**The first course of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** domination of the sympathetic nervous system, abnormal symptoms on the functioning of the brain, coordination tests are instable, irritability, which alternates with depression, blood pressure 165/95, pulse 97 beats per minute.

**Neurological reviews at the end of the first course of treatment:** headaches was observed over the past 10 days, sleeping free on the right and on the left side, stable good mood, sleep without early awakening (from eight to two) reduced signs of pyramidal deficit, no dizziness even at sharp movements, blood pressure 135/85, pulse 75 beats per minute.

**Rehabilitation data before the first course of treatment:** fatigue, pain in the spine during exercise execution, dizziness when tilting.

**Rehabilitation data at the end of the first course of treatment:** improved physical performance, increased range of motion in the spine and shoulder and hip joints, pain in the joints and spine disappeared.

**Psychological examinations before the first course of treatment:** depression, frustration, dissatisfaction with life circumstances.

**Psychological examinations at the end of the first course of treatment:** dominated good mood, cheerful, optimistic vision of the future, a desire to return to work.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the start of the first treatment course:** an expressed spasm of the arteries, a constant dystonia and veins overflow, narrowing of the vertebral arteries, reducing blood flow in arteries of the head.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the first course of treatment:** spasms of the arteries decreased by 50%, decreased venous overflow, significantly increased the speed of blood flow in the vertebral arteries, improved blood supply for vessels that nourish the cerebral cortex.

**Capillaroscopic study before the first course of treatment:** weak capillary blood flow, slow flow, edema around the vascular tissue.

**Capillaroscopic study at the end of the first course of treatment:** capillary blood saturation has increased by 70%, circulation rate corresponds to age norm, edema around capillaries become less intense.

**Electroencephalography before the first course of treatment:** brain activity is reduced, there are flashes of irritation, anxiety symptoms, slow recovery of activity in the application of external stimuli.

**EEG data at the end of the first course of treatment:** indicators of brain activity by strength and nature corresponds to norm, exhaustion is not detected in functioning, signs of anxiety not specified.



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**Ivanko S., patient**  
**Born in 2009**

**Diagnosis:** residual stroke by type of hemorrhage in the right parietal-occipital area with the formation of cysts on the background of postinfarction organic CNS lesions as partial atrophy of the optic nerve as congenital malformations of the brain with great delay psychospeechmotor development, secondary and convulsive syndrome.

**Complaints:** prolonged daily crying baby for at least two hours, constant (20-30 times per hour) or convulsive twitching of the whole body, lack of contact, chewing, biting, swallowing violation of a further regurgitation, inability to move and lack of eye contact (according to parents).

### **Ten courses of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** the position of the child passive, his eyes are opened, the boy doesn't respond at the request speech, the loud sounds provoke eyelids reaction, forced turning the head to the right, aimless weak movements of the limbs, spinal curvature with the formation of the hump and expressed scoliosis, similarity protects himself with the right hand in response to painful stimuli, with weak grimace and bending movement of limbs, tongue passive, general sweating, constant crying during review.

**Neurological reviews at the end of the tenth treatment course:** signs of auditory and visual orientation, playful boy, pushes his objects by hands, makes sounds in response to the appeal, holding his head straight, muscle tone in hand and legs decreased, there are some movements of arms and fingers, revived photoreaction of pupils as a sign of inclusion of sight at subcortical centers of sight, the child tries to look at objects or person in sight longer, there were superficial abdominal reflexes, indicating that the inclusion of the cerebral cortex and the beginning of the formation of mental processes based on normal sensation, perception, memory, attention to the needs both of instincts and social communication.

**Rehabilitation data before the first course of treatment:** the child is passive, muscles in arms and legs are tensed, passive movement is difficult, don't try to crawl back and turn, movement stimulation has no results, the boy is unable to sit, can't capture and hold anything, unable to stand in knee-carpal position, step movements are not imposed, responds with constant weeping to the rehabilitation work and repeated regurgitation of gastric contents. Bent back to the right. Head «falls».

**Rehabilitation data at the end of the tenth treatment course:** the boy easily turns on the right side, harder on the left, crawling movements are spontaneous, harmonious coordination between hands and feet is incomplete, can stand for 10 seconds, present support function of hands but it is unstable, the child is sitting on a chair, holding hands on the back of a chair placed in front, in the standing position makes step movements with a tendency to «tiptoe» walking and asymmetrically, getting up from a sitting position on his feet in a vertical position, makes it 7-8 times holding the finger of the doctor. No regurgitation, crying occasionally observed. No convulsive twitching. Curvature of the spine decreased by half by increasing the range of the vertebral tone in back muscles. The boy holds his head vertically watching all sides. There is a tendency to turn head to the right without spasms of the neck muscles.

**Psychological examinations before the first course of treatment:** at the time of inspection the child is in the hands of the mother, the visual stimuli do not show any reactions, the boy responds to auditory and better to tactile stimuli, the reaction is delayed and weak. Signs of other mental activity are absent. Stronger stimuli cause long-rendering cry with coughing and vomiting. Periodic convulsive twitching.

**Psychological examinations at the end of the tenth course of treatment:** better perception of information (the child tries to perform the instruction with all his strength), increased motor skills (hold things easier in one and both hands). Improved protective response to stimuli. Without crying. Active development of visual perception (concentration on colors - blue, green, the boy looks for subjects with bright color, determines where they are placed, and traces them with eyes). Emotions diverse, differentiated and relevant to the situation. Manipulative moments. There is a sense of time and individual peculiarities of each specialist. Spasmodic twitching is not observed.



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**Speech therapist review before the first course of treatment:** no signs of the beginning of speech development, sound-producing at the level of crying, spasmodic breathing. Lips are open, salivation. Sensor-motor alalia.

**Speech therapist review at the end of the tenth treatment course:** the child responds to the directed speech by facial expressions and babbling. Vocalize spontaneously but unclear. Lips compressed, swallows saliva. With stimulation there are signs of articulation positions for pronunciation of vowels a, o, e with similarity of sound. Breathing is deep and rhythmic. When working with a speech therapist the crying is slight.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the start of the first treatment:** the expressed dystonia with diastolic difference is in the projections of the common carotid artery in the neck, functional aortic valve insufficiency, angiospasm. The veins are hypertensive with high frequency wave-like circulation that indicates intracranial hypertension. Sharply reduced blood flow out of eyeballs. It is impossible to locate the main artery and siphons in the head due to low blood supply and weak their functioning.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the tenth treatment course:** normal blood flow in the common carotid artery, significantly weakened angiospasm, decreased amplitude but not the frequency of dopplerograms of both internal jugular veins, signs of decreased intracranial hypertension. Functioning of the middle cerebral and anterior cerebral arteries on both sides, which was not observed before, but the amplitude and speed parameters is not sufficient for full restoration of brain tissue. Circulation in the brainstem reservoir virtually corresponds the age norm that gives hope to include fully functioning subcortical areas of the central nervous system, including areas responsible for vision.

**Capillaroscopic study before the first course of treatment:** on the background of poorly differentiated capillaries there are blood congestion in venules and venous network, spasmed arterioles and slow blood circulation in microvessels with swelling around the vascular tissue. Desolation of some capillaries.

**Capillaroscopic studies at the end of the tenth treatment courses** new capillaries began to grow with good blood supply and sufficient flow velocity, 50% decrease of vascular edema. Slightly increased some spasms of arterioles by the child awareness of external stimuli and readiness of the vascular system to respond quickly to changing of situations.

**Electroencephalography before the first course of treatment:** entire pathological slow-wave, there is no normal brain neurodynamic activity, every two seconds there are typical epileptic activity in both hemispheres of the brain. Deep disorganized bioelectric activity of the central nervous system.

**EEG data at the end of the tenth treatment course:** reducing of the the pathological activity by 30-40%, beta activity appears indicating the start of the normal activity of the frontal brain regions, convulsive readiness significantly decreased both of the frequency of flashes and of the intensity, which resulted in the termination of sudden movements and twitches of the body of the boy.

**See also:** <http://www.youtube.com/watch?v=mgZln0s2xnA>.



**Ivan. S., patient.**

**Born in 1947**

**Diagnosis:** encephalopathy of II degree of mixed origin, expressed cephalgic and asthenoneurotic syndromes, acute phase. Moderate diabetic neuropathy of the lower extremities. Excessive spine osteochondrosis, spondyloarthritis of cervical-thoracic and lumbar spine section with periodic moderate subacute lumbodynia.

**Complaints:** headache, dizziness, unsteadiness when walking, general weakness, fatigue, memory loss, seizures of legs, feet numbness, twisting pain in legs, blurred vision.

**Two intensive courses of treatment.**

**Neurological reviews before the first course of treatment:** the patient easily irritated, tired from talking with a doctor and as a result of instructions, staggering when walking, cannot keep



## NEUROREHABILITATION

balance while standing on one foot, able to walk about 50 m, weakness of eye muscles, weak photoreactions of pupils, sharply reduced tactile and pain sensitivity below the knee, dry skin of legs and feet, cold feet, pale-gray fingers, and the second toe of the left foot is blue-black, the pain along the spine more in the waist area and between the shoulder blades.

**Neurological reviews at the end of the second course of treatment:** headaches stopped after the first course of treatment, stable positive mood, optimistic, patient successfully jokes, significantly increased work-ability, unsteadiness in walking disappeared, and toes become warm, got pink-yellow (solid ) color, cramping in legs are not observed, the spine has become more flexible and agile, the patient can stand on one leg for 5-6 seconds, goes at a rapid pace over 500 meters, improved sensitivity of the legs.

**Rehabilitation data before the first course of treatment:** dynamometry of the right hand 35 kg, vital capacity of lungs (VCL) 3000 ml, the patient gets tired quickly, sweats excessively, physical exercise stand for 15 minutes.

**Rehabilitation data at the end of the second course of treatment:** dynamometry of the right hand 45 kg, vital capacity (VCL) 3500 ml, the patient maintains physical activity for 45 minutes, breathing quickly restored, sweating adequate, the mood is good.

**Psychological examinations before the first course of treatment:** a significant disorder of distribution, switching, selective attention, reduced short-term auditory and visual memory.

**Psychological examinations at the end of the second year of treatment:** attention tests are successful - the results exceed the age limit, listening and memorization by vision improved by 60%.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** reduced cardiac pump function, expressed spasm of arteries, veins overfilled by stagnant blood type, hypertonus of main arteries of the head, signs of deficiency of cortical blood flow, impaired arteriovenous balance toward venous hypertension.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the second course of treatment:** improvements in all indicators of extracranial and intracranial blood flow with increasing of the blood velocity in the arteries due to increase of elasticity of vascular walls and volume ejection of the heart, decrease venous hypertension. Main artery is visualized in the head with amplitude and spectral saturation that nearly corresponds to age norm. Arteriovenous balance shifted in relation to minimum standards and are sensitive to changes of weather conditions

**Capillaroscopic study before the first course of treatment:** diabetic angiopathy phenomenon with deviation from the norm by 80% (blood clots, insufficient blood supply in capillaries, turbidity, stagnant signs in venules, arteriolar spasm, excessive tortuosity of microvessels).

**Capillaroscopic study at the end of the second course of treatment:** abnormal parameters 0-10%, the excessive tortuosity of microvessels remains. Dynamic characteristics of capillaries recovered to age level, improved barrier function of vascular walls.

**Electroencephalography before the first course of treatment:** the low level of brain activity. Flashes of excessive disorganized activity with a further depletion. External load causes the abnormal waves. Convulsive readiness occurs.

**EEG data at the end of the second course of treatment:** power neurodynamic activity increased to age norm and mostly constant. Pathological minimal activity at rest and during exercise. Convulsive readiness is not registered.

**See also:** <http://www.youtube.com/watch?v=tAmxdP8ym8c>.



**Roman .S., Patient  
Born in 1987**

**Diagnosis:** severe consequences of permeable open craniocerebral injuries, contusion and brokenness of the brain, trepanation of the skull with removal of brain detritus and free fragments of frontal bone fractures, multiple intracranial hematomas, plastic operations of the skull base in the anterior cranial fossa, apallic syndrome (vegetative state) in the form of akinetic mutism, total aphasia, profound intellectual mnesic decline, total vegetative dysfunction, disorder of functions of the pelvic organs, extensor contractures of the shoulder, elbow, radio-carpal, hip and ankle joints.

**Complaints:** lying position, lack of conscious movement and speech,



## NEUROREHABILITATION

uncontrol urination and stool, failure to contact with other people, misrecognition of himself, excessive weight loss, need constant care (according to relatives).

### **Six courses of intensive neurorehabilitation.**

**Neurological reviews before the first course of treatment:** absence of visual, verbal and bodily contact, rough spasticity of all muscle groups, tight mobility in large and small joints, dystrophy of muscular system, passive movements are limited and painful, no active movements, reduced tactile sensitivity and pain, the patient can't hold sitting and standing position, not control urination and stool, breathing through a tracheostomy tube, swallowing reflex is weak - patient chokes, general sweating, signs of consciousness is not observed.

**Neurological reviews at the end of the sixth treatment course:** sufficient visual, sensual, passive verbal contact, slight spasticity of the muscles of the hands and feet, recovered passive motion in all joints, active movements somewhat limited in the right ankle and left elbow, increased 9 kg of body weight, sensitivity fully restored, the patient sits himself, walks using the walker or holding another person, controls urination and defecation, tracheostomy tube is removed, the patient breathes through the nose, swallowing dense food and drinks not choking, skin meets the physiological norm, recovered full consciousness.

**Rehabilitation data before the first course of treatment:** for brief (5 minutes) manipulation with limbs the patient becomes red, covered with sticky abundant sweat, constant saliva, «fall» head, stiff hand, not holding anything, rolling impossible, is not standing on knees and not moving, expressed violations of passive movements of the joints, negative emotional reaction to excercises.

**Rehabilitation data at the end of the sixth treatment course:** the patient is active for two sessions lasting for 45 minutes each, his lips are closed, swallows saliva, holds his head exactly, restored joint motion, lifts a weight of 16 kg with both hands to the level of the chest for 6 times, independently gets up of the bed, uses the toilet, can sit at a table, aloe to eat himself, satisfactory swallowing, mainly positive mood.

**Psychological examinations before the first course of treatment:** no signs of perception, absence of sense, attention, affection, imagination, memory, thinking, protective reflexes, previously inherent personality traits and temperament are not observed. Tests didn't show any mental activity.

**Psychological examinations at the end of the sixth treatment course:** the patient is attentive, perceives both external and internal stimuli, identifies needs and motivated, has sufficient understanding of the real events, recovered memories of himself and his family, resumed temperament features and character traits, appeared protective reflexes for his own safety and the safety of children, found elements of creativity, there is some difficulties with solving logical problems of average complexity.

**Ultrasound of vessels in head and neck (Doppler ultrasound) before the first course of treatment:** sharply reduced cerebral blood flow in main arteries of the brain (20% of normal), expressed signs of intracranial hypertension, congestion in the venous system of head and neck, weakened heart release, vascular spasms of blood vessels, partially filled with blood, no systemic autoregulation of cerebral and common blood circulation.

**Ultrasound of vessels in head and neck (Doppler ultrasound) at the end of the sixth course of treatment:** the level of cerebral blood flow increased to 60% of normal, decreased by 50% of intracranial hypertension, significantly increased blood flow in the veins of the head and neck, increased by 40% the pumping function of the heart, moderate spasms of the arteries of the neck, signs of autoregulation of cerebral blood flow are variable.

**Capillaroscopic study before the first course of treatment:** number of desolated capillaries 90-100%, blood congestion in venules.

**Capillaroscopic study at the end of the sixth treatment course:** capillary filling in 80-90%, moderate flow rate, sufficient blood filling, non-condensed blood, sometimes dystonia in venules.

**Electroencephalography before the first course of treatment:** sharply reduced the overall amplitude of brain activity, significant pathological hypoxic slow-wave activity. Weak reaction to external stimuli, the patient quickly depleted. Periods of decreased bioelectric brain activity with zero amplitude. Moderately expressed convulsive readiness.

**Electroencephalography at the end of the sixth treatment course:** increasing the amplitude of brain activity by 70%. Normal alpha and beta activity. Pathological slow activity significantly decreased and is localized in the right temporal area. The brain perceives the frequency of external stimuli satisfactorily, mostly without exhaustion. Convulsive readiness is absent.

**See also:** <http://www.youtube.com/watch?v=yFX9KSqdsug>





# NEUROREHABILITATION

## PERSONALIZED COMPREHENSIVE REHABILITATION

State Patent of Ukraine № 72725 as of 31.12.2003  
«Neurorehabilitation of patient with apallic syndrome»

Monitoring neuropsychiatric status based on the methodology  
of coordinated multidisciplinary approach

1–3

### Rehabilitation:

from massage and  
passive movements to active  
movements

1–4

### Kinesitherapy

organizing feedback  
«Brain - movement»

1–4

### Medicament therapy

with monitoring the state of  
blood supply  
and functioning of organs and  
systems

1–4

### Psychological correction

- recover lost higher cortical functions
- harmonization of mental state
- synchronization of higher integration mechanisms of CNS

1–2

### Biorhythms correction

1–4

### Psycho-speech correction

1–4

### Sensor correction:

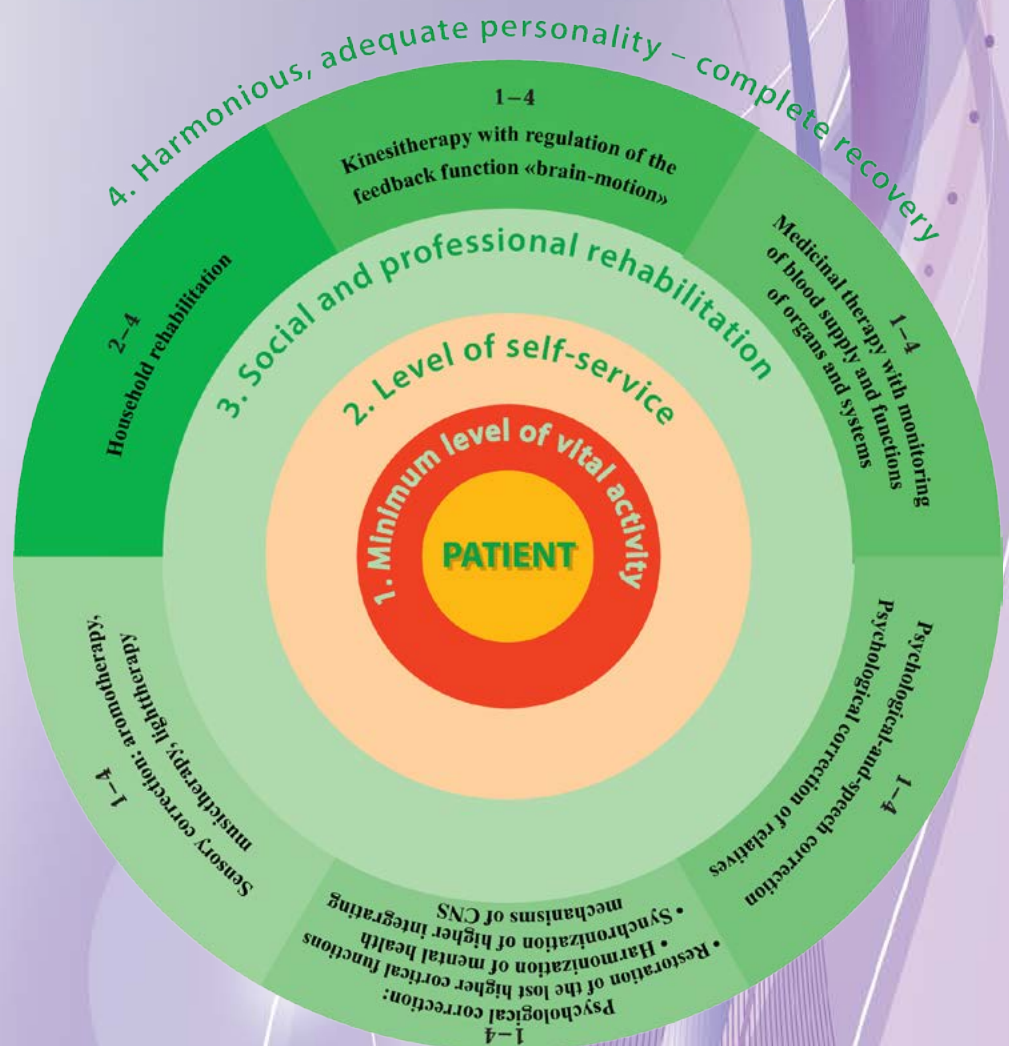
aromotherapy,  
music therapy,  
light therapy

2–4

### Rehabilitation in everyday life

1–4

### Psychocorrection of patient's relatives



## NEUROREHABILITATION



A book «The long-term coma - a sentence or ..?» is devoted to problems of coma and recovery of patients in coma, who considered hopeless by all medical canons. It was published in 2003. The many-year experience of the Clinic of Healthy Vessels shows that the traditional approaches should reconsider the coma. As owing to the latest methods people, who have long been in a coma, can be returned to life.

### GALYNKA K.

The girl suffered from serious injuries as a result of the tragedy in Chervonograd in 1998, when due to a crush in the cinema after watching the movie «Armageddon» four pupils were killed and tens injured. Coma lasted for two months.





## NEUROREHABILITATION

### VASIL I.

Diagnosis: vegetative state as a result of closed head injury and severe brain contusion. Intracerebral hematoma. The duration of coma for five months.



### SERGEI P.

Diagnosis: vegetative state as a result of closed head injury, severe brain contusion. The duration of coma for three weeks.



### NAZAR N.

Diagnosis: vegetative state as a result of viral meningoencephalitis. The duration of coma for three weeks



## NEUROREHABILITATION

### ALEKSANDR F.

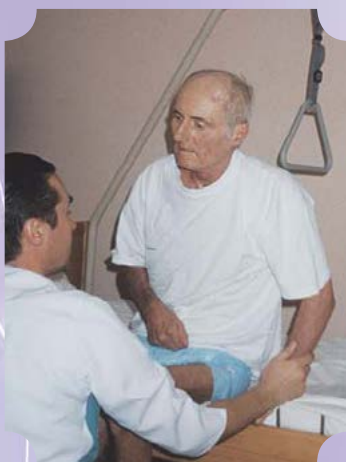
Diagnosis: vegetative state as a result of closed head injury and severe brain contusion. The duration of coma for one week.



### ANATOLY Z.

Diagnosis: vegetative state as a result of closed head injury, severe brain contusion, acute subdural hematoma, brain edema.

The duration of coma for two weeks.



### KATYA K.

Diagnosis: vegetative state due to tumors of the third ventricle of the brain. Removing of tumors and ventriculoperitoneal shunting. The duration of coma for three weeks.





## NEUROREHABILITATION

### NEUROREHABILITATION AFTER THE LONG-TERM COMA

Coma is a state of deep depression of the central nervous system, which is characterized by unconsciousness and lack of reactions to external stimuli (sound, touch, temperature change, etc.), disorder in regulation of vital body functions.

Various diseases can cause coma, but the direct cause of its development is organic or brain injury - traumatic brain injury, stroke, tumors, burns, frostbite, or abuse of biochemical processes and consequently metabolism in brain cells.

Years of experience of our clinic's experts, engaged in treatment of cardiovascular diseases, have shown that people in long-term coma, who traditional medicine consider as unperspective arguing the brain death, we succeeded to return to life.

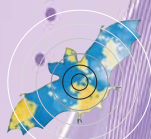
People can recover from coma due to intensive therapy. This patient still has to pass long treatment and rehabilitation. Rehabilitation involves the implementation of measures aimed at restoring disturbed functions with medication, physical therapy, kinesitherapy, psychotherapy, speech correction, memory, thinking and so on.

Such patients require maximum efforts and a lot of continuous work. After all, the people, who came out of the coma, regardless of age are like infants by their mental development. They require careful maintenance. The rehabilitation, unfortunately, takes not only days, nor weeks but years.

The role of patient's relatives is very important: the patient urgently requires their help, and very much depends on the behavior of family members and their relationship to the patient. Relatives, in fact, should be aware that they are also the members of the rehabilitation team.

So we can now say: prolonged coma - no penalty for the patient and his family. However, one must have knowledge, courage, strength, patience and faith to fight for patients to the end and should never give up. It is not easy, but it is quite real.

We believe and our experience proves this, even when coma lasted for months and years, there are real ways to overcome it and to return the people to life, return them to the family and society, confirming the humanity of medical science and power, which it reached at the current stage of development.



1996

Image of a bat in flight has long been a symbol of international specialists of ultrasound diagnostics - because this animal uses for orientation the ultrasonic waves and it acts as live radar.



2008

The new logo symbolizes Research Center for combination of diagnosis and treatment within the framework of personalized neurorehabilitation under control of USD on the basis of evidence-based medicine.

**In 1996, Istyna/Truth began its work as a research medical center for methodology of ultrasound diagnostics**



2010

Clinic's logo was changed again, when we realized that the knowledge and experience of our specialists about diagnostic of vascular system and personalized restoration of blood circulation achieved the expert level, and treatment results strongly prove that indeed healthy blood vessels recover in our patients.



2013

**«ISTYNA/TRUTH»  
THREE YEARS**



**Istyna/Truth history and development - this is really the way through thorns to stars**



**«ISTYNA» Three Years**

**«ISTYNA/TRUTH»  
FIVE YEARS**



**The staff of «Istyna/Truth»**





## THE WAY THROUGH THORNS TO STARS

### «ISTYNA/TRUTH» SEVEN YEARS



Medical team

### «ISTYNA/TRUTH» The Orange Revolution



### «ISTYNA/TRUTH» TEN YEARS





«ISTYNA/TRUTH»  
TWELVE YEARS





## OUR DEVOTED EMPLOYEES



**Nadia G. Lushchyk,**  
physician ultrasound  
(since 2004)



**Ulyana B. Lushchyk and Viktor Novytskyy,**  
supervisors (since 1996)



**Bogdan V. Lushchyk,**  
general practitioner  
(since 2007)



**Igor P. Babii,** chief physician,  
neurologist (since 1997)



**Olga S. Voloshin,**  
Manager (since 1996)



**Inna V. Kavchak,**  
head of international  
department, translator  
(since 2003)



**Galina Y. Pylyahina,**  
scientific consultant,  
psychiatrist  
(since 1999)



**Natalia L. Naboka,** reviewer and  
literary editor (since 1997)



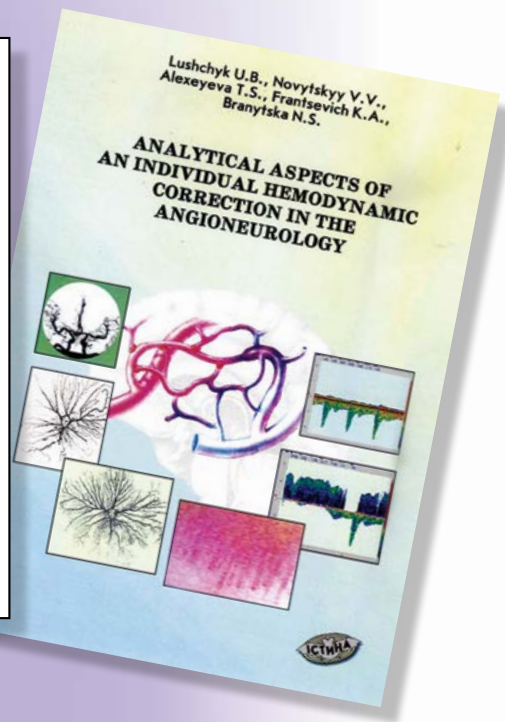
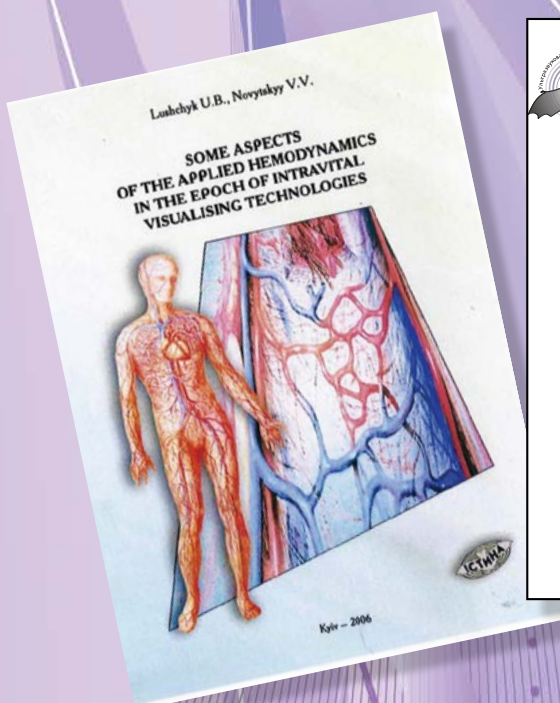
**Ivanna I. Legka,**  
medical worker  
(since 2004)



**Victoria L. Moroz**  
scientific consultant  
(since 2003)

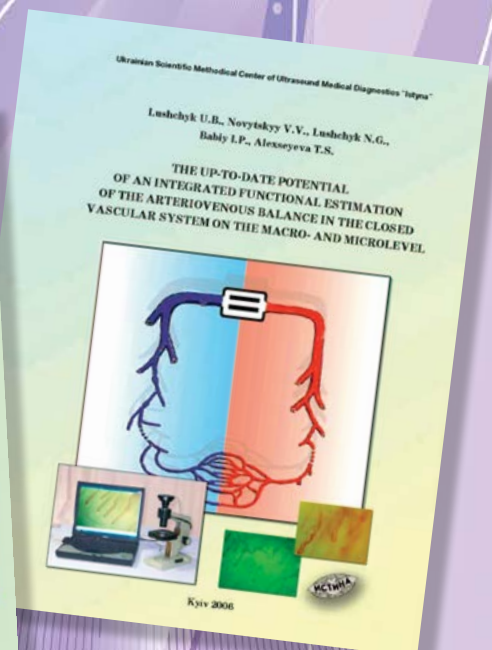
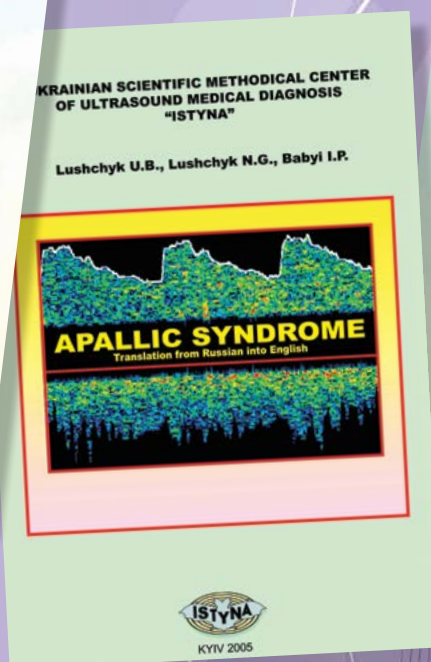
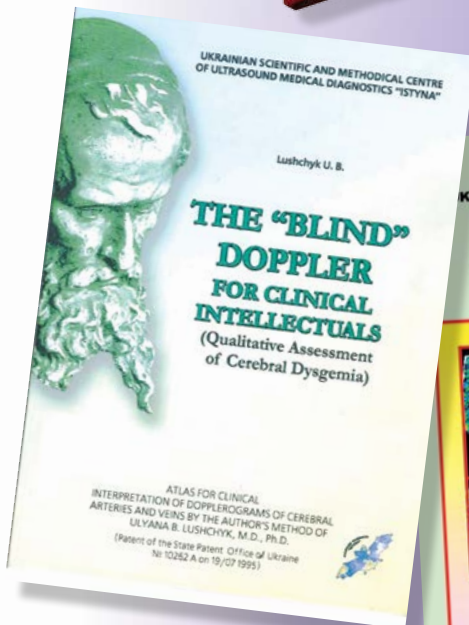
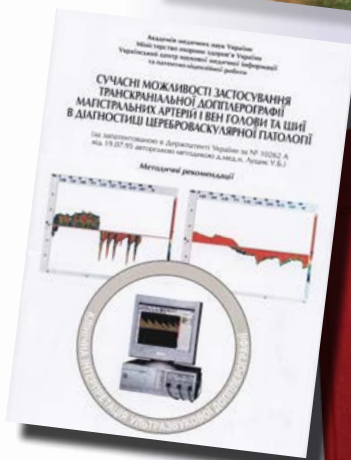


**Lyudmyla S. Riabets,** head of the  
Center for innovative medical  
technologies,  
engineer (since 2008)



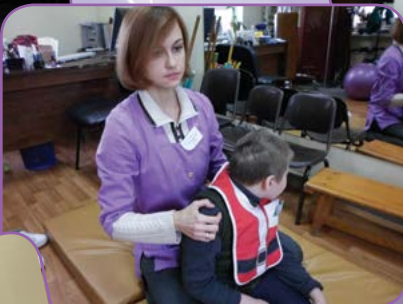


## OUR PUBLICATIONS





## WORKING DAYS OF THE CLINIC





## RESPONSES OF OUR PATIENTS

RESPONSES  
BOX

Over ten years I check my health and treat by technologies of doctor of medical sciences Ulyana B. Lushchyk. I appealed to her after stroke, when I was diagnosed aneurysm of brain vessels, with numerous complaints and limited movement, speech, thinking. Then I thought that I lost my life. Ulyana Bogdanivna always was an optimist and gradually she made me thought in this way: I regularly pass diagnostics a half a year, and then prophylactic treatment course. And I live quietly being in retirement I go for work. Since 2002 without any repeated stroke. I believe that Mrs. Ulyana and her team is able to perform miracles even when you already despaired and expect nothing. They returned my health, life and gladness of every instant moment.

Vasil M. Tomun

I bow to earth to the leader of the Clinic of healthy vessels to Ulyana Lushchyk and specialists-professionals for the result which I got from them in the process of treatment. These people gave me a hope on the best life, to believe in myself and think only for positive. First days in the clinic seemed very strange to me. As it differs from other medical establishments, where I was for the last four years. Here treatment and atmosphere are extraordinary interesting. The medical personnel is extraordinarily benevolent. Feel attention from every side. Every doctor regardless of whether he treats you or not, will take interest about your feeling and how is your mood today. They always smile. There is the consent and the well. But, of course, first of all the result. It is impossible even to compare the state when I started treatment here and what I feel now. Great, boundless gratitude from me to all friendly collective of the clinic. I am happy, that these people appeared in my life. I wish health to all of them, positive and inspiration in their heavy work, successes and prosperity, and also new openings in medicine. At the end I'd like to say: only these people like Ulyana Bogdanivna are required not only in our country but also abroad. She brings the good in the world only which it is impossible to hug even by millions of hands.

Svitlana Naumenko  
Tetiiv city, Kyiv region  
October 22, 2013

I am ill for long ago, I treated in different hospitals, but no result. I suffered from headaches, dizziness, sometimes lost consciousness. Here in the Clinic of healthy vessels I had the full examination the first time. Then they prescribed the treatment. Gradually I felt better. The treatment lasted for few months as my illness neglected. My health became better, can work. Here I saw how ill children first began to understand the speech, learnt to talk in five or seven years, as the paralysed people began to walk. I am beholden to the personnel of the clinic for attention, for sensitive attitude toward patients and wish to them salubrity and successes in such heavy work.

Lubov O.

Five years ago I carried a serious craniocerebral trauma, as a result I did not walk, had sleep, sight and psychical disorders, increased irritation, fatigue. The treatment in the Clinic of healthy vessels helped me very much. The doctors of high qualification work here. I thank to Mrs. Ulyana, Mrs. Nadia, doctors, nurses and all the personnel. I wish them success, let the God turn away all misfortunes, confusions from them and their families.

Anatoliy  
Ternopil city

## RESPONSES OF OUR PATIENTS

*I thank very much for the considerable improvement: I didn't believe that after six years of suffering from pain in joints I again would be able to run, to jump, to move fast, - and, mainly, nothing disturbs me. I've never thought that at vascular level it is possible to settle such problems, as arthrosis, arthritis, osteochondrosis. I looked younger on twenty years both with my body, and my soul. I am a doctor. I pay much attention to the health, because our family has propensity to the vascular diseases - strokes, heart attacks. When I was forty I felt that my health gradually began to get worse. I applied the traditional charts of treatment, passed a lot of various examinations. I realise that it is necessary to treat oneself in time, unless it can be too late. My patients told to me about the Clinic of healthy vessels, enthusiastically described the results of treatment there. At first I thought it was their positive emotions about short improvement. But visiting the site of the clinic, I learned and analysed the modern approaches to different diseases and was pleasantly surprised. Such approaches are not taught in medical universities. It is really innovations. Soon I felt it on myself. At first it was somehow unusual - right after diagnostics (a complex check-up includes nearly fifteen different procedures) there is a concilium of specialists of the clinic, and the next day the chief doctor shows the results of the check-up to me, tells about suggestions of concilium and discusses the plan of treatment with me. I was proposed the intensive course of medicinal treatment together with the rehabilitation. I completed three monthly courses. And I'm very pleased: pressure does not jump, my head does not hurt, dizziness passed, do not feel my heart, the shortness of breath disappeared. Edema on feet are still present, but insignificant. The level of sugar is practically normalized. And the most important my bones and joints do not already hurt and I do not feel pain at night. Such impression, that I looked younger on twenty years. Before I considered I was caused by old age, today I understand, that due to the treatment after technologies of Mrs. Ulyana it is possible to feel young and healthy at the age of sixty-three. The collective is very attentive, they are real professionals. The comfort and benevolent atmosphere is always felt in the clinic. I forgot that I accepted the heap of pills. I hope that in half a year I will again repeat the course of treatment. As a doctor I know: it is necessary to execute all recommendations and treat wherein you were helped to improve your health. Thanks to all you!*

Victoria I.

*Everything treats here: innovative technologies, and a kind word, and psychologist advice, and the attention so necessary to the patients. All personnel in a clinic can find approach to each patient, help to believe in own forces, even when you almost already powerless!*

Tetyana  
Cherska, August, 2013

*I have problems with vessels since my youth. Therefore all the time I searched for the effective methods of treatment of vascular diseases. The level of Clinic of healthy vessels (the named proves itself) and efficiency of original methods applied with the personalized approach just impress. Wish great successes to the doctorsinnovators who work here!*

Lyudmyla G.  
Vinnitsya



## RESPONSES OF OUR PATIENTS



A doctor is always glad to get flowers from his thankful patient

After a trauma they put frightful diagnosis to my child - episynndrome. They said that it did not treat, that it was possible only to block attacks with anticonvulsant preparations. I could not reconcile myself with that. We visited many places with a son, while we did not know about a center «Istyna/Truth» – the Clinic of healthy vessels had such name then. As a mother of a patient who passed the long-term treatment, I was a witness of becoming and development of the clinic from the first years of its existence.

And now when my son is healthy, moreover, he decided to become a doctor, to rescue others, I want to say the sincere words of gratitude to the people which gave to us the hope and helped to get a chance on the best life. Kind regards, dear!

Olga P.  
Kyiv

I was never ill. I have never lied in hospitals. I never knew about medications and injections. Never! Till thirty five years. And then suddenly it became badly: grew dark in eyes, hardly I did not lose consciousness. Soon I could not stand, staggering, could not sit, did not hold my head, I should hold it with my hands, and the worst, I saw badly, a dark-grey shroud stood before my eyes. But nothing was ill, only a heart aches from time to time. Doctors were at losses, they say, I am absolutely healthy, and advised not to overstrain. My bag changed into a medicine chest, instead of smell of perfumeries there was a smell of Barboval, instead of pomade it was a heap of pills. I already despaired in everything.

I found the Clinic of healthy vessels by chance - via the Internet. The treatment lasted for a whole year. Today I went back to the former life: do business, fly in a business trip, laugh, dance, glad to life, I have my favourite husband and two wonderful sonnies.

I fully trust people which work in this clinic.

And I thank God that got to them in time. Mrs. Ulyana knows, how to find a problem, and the most important to solve it. Thanks to the remarkable personnel of the clinic, because estimating a leader is possible after his inferiors. I live!

I wish to all patients of the Clinic of Healthy Vessels to live and believe in treatment. And to trust people which aim to help to them. Nothing bad will happen only good!

Tetyana D.

I'm much obliged to the doctors and all collective of the Clinic of healthy vessels for that they give me good mood and hope on the best.

Nina Kresan  
Nigyn town, Chernigivska region



*A good helpmate accompanies a good guide*