

At the end of XVIII - first half of the nineteenth century the popularity of hirudotherapy rose sharply. For example, in France, while demand for leeches was from 20 to 30 million in England - 7.9 million in - 27 million individuals.

Illiteracy hunters, the desire for profit led to the devastation of the available water and seek new, in the provinces.

Gradually, from the random hunters were distinguished people who devote themselves to this task, there were merchants, brokers. Then began to emerge major trade and industrial companies, which rented lakes, ponds, extensive wetlands and organized an intensive fishing.

Catastrophic consequences of this piyavochnogo boom we feel today. Even in 1848 the Ministry of Internal Affairs of has approved regulations restricting fishing leeches.

Pioneer breeding medicinal leeches in was delivered by Parman, founded in 1825 in Moscow, a specialized economy. Over time, a whole network of such facilities.

The current technology of breeding leeches in artificial conditions developed in 40-50-ies of the century Shchegolev G., M. M. Fedorova and blue. Disadvantages of this, progressive then, a method due to the fact that the leeches from birth and prior to the sale were kept in glass jars from three to five liters. "Cup" leeches have a reduced therapeutic effect, the allocation of their salivary glands are less active. Thus, this technology is only partially solves the problem of growing full-fledged, active individuals.

Given the growing interest in hirudotherapy, and the fact that the medical leech is an endangered species of animals and in 1984 are listed as endangered, the group company Biocon has developed and introduced modern technology "vicious cycle". Through the use of such technology to monitor observance of cultivation regimes (temperature, light, humidity, etc.) is an automated system. Employee only visually monitors the status and behavior of their pets. In this case, the conditions of leeches as close to natural. Enabling environment increases the immunity of growing medicinal leeches and their healing properties.

The method reduces the share of manual labor. This one man can raise a batch of 250 thousand individuals (in tins method - only 80-100 thousand).

HIRUDOTHERAPY (hirudotherapy)

LIVING ShPRITsStarinny treatment leeches (hirudotherapy) is used today in

modern medicine as an innovation on a par with the latest medical technologies. In St. Petersburg at the Academy of Medical and Social Management under the President of has recently established only in Chair hirudotherapy. Current scientific data obtained through genetic engineering, molecular biology, biochemical research, explained many previously seemed mysterious properties of medical leeches.

The medical leech: A - on the dorsal side, B - with the ventral side.

Medicinal Leech (out of four species known to science, only one species *Hirudo medicinalis* and its three subspecies are useful to humans) used to alleviate the condition of patients and preventing disease as early as the fourteenth century BC. In the history of hirudotherapy were ups and downs. The heyday of this method of treatment can be considered XVIII-XIX century. Then the leeches in the export of took place along with corn, as an important source of income of the state treasury. A woman of fashion, getting ready for the ball, putting leeches behind the ears for the appearance of a gentle blush on the cheeks and eyes to give a special shine while and dancing till the morning were not so tedious.

At the beginning of last century, leeches took the "red corner drugstore. The most popular, this method was in France: from the records of Napoleon knows that only from Hungary during the year were imported six million leeches for the treatment of soldiers of his army. Masterfully mastered the methods of oversight of leeches our n barbers, saving good morning walk on the eve of the merchant: just a couple of leeches behind the ears. Pirogov, the synthesis of observation-martial practice during the Crimean War and the Caucasus expedition said: "I put 100 to 200 leeches. Even in simple fractures, where only there was a slight swelling immediately leech. Of the latter, the forces wanting to help a dying friend, a military doctor VIDal put the mortally wounded Pushkin on his stomach 25 leeches. Fire and vzdutost stomach reduced, the pulse becomes smoother. "It was a moment of hope" - and then write Dahl.

Excessive medical leeches in the absence of scientific data on the effectiveness of this method, indications for its use and health regulations sometimes discredited hirudotherapy. Only in the late nineteenth century, undertook the first attempts to study the mechanism of therapeutic action of leeches. These knowledge-world science is obliged to our national scientists. They first gathered selection (secret) of the salivary glands of leeches, and then began to study the composition and properties of its active principle.

Obtained in 1884 by Professor K. Dyakov extract from the body leech, called hirudin, served as the starting material for isolation and study of biologically

active substances entering the bloodstream of an organism using leeches. It was thought before: the treatment is mainly due to the fact that the leech sucks "bad blood". Indeed, the leech sucks from 3 to 5 cubic centimeters of blood. The effect of bloodletting, for example, high blood pressure - a thing known and useful. Most important, however, studies have shown that - of leech saliva, which is absorbed into the body. It is believed that its components are generally known, but a number of substances introduced leech saliva, and this requires explanation. Medical leech injects into the body in one session over a hundred bioactive drugs! They have anti-inflammatory effects and stimulates the local capillary blood circulation, improve the supply of tissues with oxygen and nutrients, prevent blood clots and dissolve fresh thrombi. Clinically this is reflected in the rapid disappearance of cardiac pain, elimination of edema, restoration of impaired blood circulation of the brain and other organs. There is every reason to call a leech pharmaceutical mini-factory. Important enzyme piyavochnogo secret - hyaluronidase - vector, by which all other biologically active substances that make up the secret, absorbed by the body, penetrating into the tissue to a depth of ten centimeters. Thus, the therapeutic effect is achieved not by suction, but rather, by injection. Where else can you find such a unique disposable syringe? (In accordance with the sanitary standards after the application of a leech destroyed.)

List the range of diseases, which successfully applied hirudotherapy. This cardiovascular system (hypertension, angina, heart failure), lung disease (bronchitis, bronchial asthma), stomach (ulcer, gastritis), liver (hepatitis, cirrhosis), surgical diseases (furunculosis, abscesses, and varicose disease, thrombophlebitis, trophic ulcers and wounds, acute mastitis, the effects of injuries). Application hirudotherapy proved effective in the treatment of gynecological diseases, urology, ophthalmology (glaucoma), inflammation in the sinuses, ear, and so on ...

Good results of treatment of patients with the use of leeches were obtained in the clinic of Maxillofacial Surgery, Moscow Medical Academy (MMA) im. Sechenov. Furuncles and carbuncles are difficult to treat: Modern immunocompromised patients promotes the inflammatory process and leads to serious complications, sometimes life-threatening patient. Vein thrombosis angular face, thrombosis sinuses of the brain, meningitis, brain abscess, sepsis - that's an incomplete list of dangerous, not-so-rare complication of furuncles and carbuncles of the face. Antibiotics in such cases often powerless; infiltrate spreads rapidly, causing swelling of the eye, causing breathing difficulties. In these cases, two or three leeches (and sometimes lack of one) gave a tangible effect within days, after which conventional physiotherapy techniques allows you to fully restore health.

Excellent results were obtained in patients with deforming arthrosis of ankle, hip, shoulder, elbow and other joints. After setting the course of leeches on the reflex zones and biologically active points (girudorefleksoterapii) in many patients pain

disappeared. Here is what the doctor said GA Zakhar'in, noted that leeches are simultaneously kroveizvlekayuschee and how distracting (refleksoterapevticheskoe) means:

"... I was called to a patient with severe nosebleeds: left bowl full of blood and bleeding, despite the measures taken, continued. The patient - a woman of about 40, very sturdy, until recently enjoyed a blossoming health and Currently, all right, only the head is heavy and depressed mood. I have appointed 4 leeches in the circumference of the anus. By the end of the oversight of leeches bleeding stopped and has not resumed. In the morning the next day the gravity of the head disappeared, the patient felt, as always, happy and healthy.

Step four leeches did not consist in the drainage of the circulatory system; small haemorrhoidal kroveizvlechenie (4 leeches have a maximum of 8 tablespoons of blood) stopped the bleeding and facilitate head. Ascribe this randomness would be to turn a blind eye to the obvious. "(Excerpt from clinical lectures GA Zakharyin. Moscow, 1894)

In addition, it turns out that leeches improve trophism nervous tissue. For the first time with this face, when leeches were used in the treatment of children suffering from a form of infantile cerebral palsy (CP), in which mainly affects the legs. Without exception, all the patients by the third month of treatment feel much better, and for the fifth month of treatment is one of the young patients was able to move itself, if it is supported by the hand (this is the case of St. Petersburg television made the film). Physiologists interested in the action piyavochnogo extract on nerve cells. It was found that nerve cells are less conservative than scientists had thought before: in spite of all the famous assertion of its inability to regenerate, it can recover and even grow, creating new processes, under the influence of stimulants, one of which is an extract of leeches.

Of course, it would be wrong to consider hirudotherapy panacea for all ills, but to abandon this method of treatment is unwise.

Today the method hirudotherapy someone may seem outdated, someone - exotic. It's no secret that most of us are accustomed to using medications. Leeches many short-sighted citizens will cause distrust and rejection: "Br-rrr, a hideous creature!" Of course, all this prejudice.

Another reason for the low prevalence of this method today is that the number of medical leeches in , alas, has declined sharply. Medical leeches are listed as endangered, which, unfortunately, does not save them from destruction. Gone quiet streams with clear clean water - habitat of leeches in nature. Now leeches can only be purchased at special biofactory. However, compared with the cost of modern chemotherapy price of medical leeches in biofactory or pharmacy is readily available to any of us.

Should be immediately warned that the treatment must necessarily appoint a physician-girudoterapevt. Only he can offer you correctly charted. After a few sessions (usually 2-3 times a week) the patient in many cases may itself carry out a course under the supervision of a physician

**Hirudotherapy** - treatment of medical leeches. Many may say: "What is the old grandfather's method. Yes, the old, one might say - the most ancient, because even the frescoes of pharaonic tombs there are images of treatment with leeches. But never forget that the earliest techniques in conjunction with a vast knowledge of modern medicine give unique results. Here are a few examples from our practice:

? In patients with diabetes, glucose levels dropped from 29 to 7 units after 15 procedures hirudotherapy in combination with phytotherapy and homeopathy;

? Patient with uterine myoma 10 weeks in the growth stage after the 10th procedure in the picture ultrasound fibroids decreased to 4 weeks, has ceased to grow, with refresher courses - no fibroids;

? Small fibroids 4 -5 weeks completely removed for 8 - 10 procedures;

? For the treatment of diffuse fibro-cystic mastopathy enough 5 - 8 procedures;

? Immunity and hormones are restored for 3 - 5 treatments;

? Dissolve nodal shape schitovidnyoy cancer for 10 -12 procedures, commissural processes - for 3 - 4 procedures, as well as inflammation of appendages;

? s success hirudotherapy solve the problem of excess weight with a very persistent, prolonged effect, because removed by various causes and consequences of its formation just 10 -15 procedures;

? Hemorrhoids, polyps, anal fissures healed in just 3 - 5 procedures;

? Patient suffering from hypertension in only 7 procedures, the pressure was stabilized with 240 units to 150;

? With varicose veins and thrombophlebitis requires significantly more procedures - from 10 to 15, sometimes have to repeat the course twice;

? Liver disease, including obesity and dystrophic III degree - in just 3 treatments.

Medical leeches belong to a class of annelid worms. They have five pairs of eyes are organs of hearing, smell, touch. A hungry leech, weighing about two grams, can for one krovososanie drink 10-15 ml. blood per hour. Well-fed are able to live off this amount of blood from one to two years, so use them once.

Leech can be compared to a mini-pharmaceutical factory. Together with the saliva, it introduces the "bitten" about a hundred of biologically active substances (BAS) that prevent the formation of blood clots, have a hypotensive effect, lowers blood cholesterol, inhibit the development of inflammatory reactions, increase the body's defenses.

Leeches are used in all areas of medicine: medicine, surgery, neurology, gynecology, and others they have received wide acceptance in the treatment of venous thrombosis, thrombophlebitis, hemorrhoids. Leeches not only to reduce swelling of tissues, but also reduce blood clotting, due to hirudin, a major biologically active substances, warn blood clots and to some extent dissolve them. The good result obtained by using them in the treatment of myocardial infarction, cerebral form of hypertension, headaches, dizziness, concussion, predinsultnyh states, as well as enzymes in saliva have an antispasmodic effect on the vessels, improve the rheological properties of blood. **Hirudotherapy** perfectly amenable to treatment of infertility, cysts, chronic inflammation of appendages, endometriosis, hormonal disorders, menopause, mastopathy. A strong sex leeches help to cope with a purely male diseases - prostatitis, impotence.

But that's not all.

Leech - an excellent natural bioenergoterapevt. Any disease caused by a violation of the circulation of vital energy on the energy channels. So the first condition - the restoration of the natural flow of energy.

All human bodies have their projection on the surface of the body - the biological active points, acting on them, you can remove the block, restore the movement of energy. And they are with this excellent job.

For the dignity of leeches appreciated and cosmetologists. The unique chemical composition of saliva provides instant interaction of its components with the cells of the skin, resulting in his youth, resilience, elasticity and beauty of any skin. She gets a pink hue, it becomes soft and smooth, which is the dream of every woman.

But how good were these little healers, unfortunately there are contraindications to the use of: anemia, treatment with anticoagulants. For medical purposes, they are purchased in pharmacies and not caught in the pond as it did all known Duremar, for the reason that they live in water-fed and lazy.

Leech in the region of the body, which they want to influence: the region of the heart, liver, along the affected vessels, etc. Formulation of leeches should be conducted under medical supervision, so as soon as he can correctly identify the point of impact and the number of leeches. At home they are stored at room temperature in a room where there is no sharp odor, since they are very sensitive to external conditions. Comfortable feel in the bank with lagged water filled half of the volume and close the dense tissue. Water should be changed daily, while bank thoroughly washed. Under such conditions of storage leeches are always ready for action.

At present, unfortunately, little attention is paid to disease prevention. This is completely wrong, given the negative impact of the deteriorating environment on the human body, especially - on the endocrine system. In this case, again hirudotherapy comes to the rescue. Enough to make just 3 - 5 treatments to deliver a powerful protective barrier, at least a year, because hirudotherapy has a very long, prolonged action unlike any medication. In some cases, according to testimony, hirudotherapy used in combination with phytotherapy, homeopathy, mud therapy, acupuncture, physiotherapy.

If our ancestors used medicinal leeches only to normalize blood pressure, with a concussion, injuries to the lifting of the "evil eye", "deterioration", hysteria, etc., now greatly expanded the list of diseases preventable hirudotherapy:

1. Skin diseases (psoriasis, atopic dermatitis, furunculosis).
2. Chronic bronchitis, allergy with asthmatic component.
3. Cardiovascular disease (atherosclerosis, coronary heart disease, angina pectoris, kardiosklerosis, hypertension, dystonia, varicose veins, thrombophlebitis).
4. Diseases of the abdominal cavity (genatoz, tserroz, holetsesit, pancreatitis, colitis, gastritis, duodenitis, pyelonephritis, urolithiasis, etc.).
5. Neurology (osteochondrosis, myositis, sciatica, vertebral hernia, headaches and dizziness of any origin).
6. Gynecology (inflammation of the ovaries - chronic and acute, spayachnye processes, fibroids, cysts, endometriosis).
7. Urology (prostatitis).
8. Endocrinology (diabetes, thyroid disease).
9. Excess weight, cellulite.
10. Various injuries (bruises, fractures, edema, hematoma).

Reducing excess weight and cellulite treatment hirudotherapy gives an even greater effect in combination with other procedures to correct figures (hardware cosmetology, anti-cellulite massage, cellulite body wrap).

Course and the number of procedures shall designate the physician individually for an initial consultation. The cost of consultations on hirudotherapy 300 rubles, 500 rubles gynecology.

It should be noted that the medical leech, is a "one-off tool and is used only once, that completely eliminates the infection of the patient. Leeches are grown in special biofactory, where the strictest quarantine.

After the procedure is for 6 - 12 hours mikrokrovotechenie in place productions leeches, so the volume is applied bandage, which can only be removed the next

day. For quick healing of wounds point, we use special means, either immediately after the procedure, and for processing at home. A month later, even the most meticulous patient does not find traces of "work" medical leeches, but always forgets to health problems.

Contraindications:

- ? Hemophilia - congenital (incoagulability blood);
- ? Severe anemia (a significant reduction in red blood cells);
- ? Pregnancy

Modern pharmacology certainly reached major success, is often impotent in the treatment of diseases. Moreover, a whole series of diseases that are called "medicinal". One of the Assemblies of the World Health Organization (WHO, Geneva, 1991, 44 th session of the World Health Assembly), scientists have concluded that we should study the experience of traditional medicine and use it in cases where the effects of the use of methods supported by scientific evidence. Because of this, in recent years have seen an upsurge of interest in the study of leeches, from of old well-known practitioners of many different diseases, which resulted in some remarkable discoveries, which make it possible to explain the miraculous properties of "living needles".

It turned out that the secret leeches, which she injects the patient during krovososaniya, contains about 100 biologically active compounds, whose structure is already largely studied, to investigate the mechanism of their action.

Bioenergetic effect hirudotherapy

Currently, creating a view of the Energy and causes of diseases and the methods to solve them. The idea was raised in 1997 at the Third Conference of the Association girudologov . We have made a discovery that leeches have the ability to stabilize the aura, and this stabilization is the most time-consuming in comparison with other methods, such as extrasensory, and can last for many months.

In recent months, this theory has received yet another confirmation by the amazing method called "Kirlian Effect" (the effect of luminescence of biological tissues in the high-frequency electromagnetic field), obtained by the professor of St. Petersburg Institute of Fine Mechanics and Optics Korotkov and his students modern computer expression.

We at the department has a unique setting that allows the diagnosis method kirlianovskogo glow. It was found that the luminescence of tissues after treatment with leeches is changing, and changing the nature of his interpretation of such stabilization, such improvement of energy information structure, which is not achieved by other methods of treatment.

ENERGY INFORMATION ASPECTS **Hirudotherapy**

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It was found that the treatment method **Hirudotherapy** (medical leeches) as well as the method of Yoga [Krashenyuk 1993,1994] has a significant bio-energy effect on the human body. [Krashenyuk 1995,1996 1997a]. To register a bio-energy effect, we used the method Akobany [Krashenyuk 1993] as well as the method of gas-discharge visualization [Korotkov, 1995]. Using these methods, we registered the state of "energy channels" patients before and after treatment with leeches [Martinov 1989].

Our conclusions regarding changes "bio-field" after a few sessions hirudotherapy were confirmed Kulikov, IP and Nikonov, GI [Kulikov 1995]. It was found that changing the size of "bio-field" of the patient after a course of hirudotherapy depends on those points on the body, where the leech. It turned out that more effectively leech on the energy centers - the so-called chakra.

At present, the problem of "bio-field" or "energy-information status" or "energy-information structure" of man transformed into modern terminology from the field of parapsychology in the subject matter of theoretical and applied physics, mathematics and other sciences. Recently, a set of concepts that help explain the mechanism of functioning and structure of energy-information field of human [Akimov, 1996]. The main reason for speculation in this area is the lack of objective methods of control, as well as modern methods do not exclude the subjective evaluations and do not allow comparison with data obtained by different researchers.

Modern computerized device Crown-TV, based on the Kirlian effect, gives us an accurate and efficient method for the analysis of energy-information of the human condition and allows to study the influence of various factors on this condition. We first used the technique of gas-discharge visualization in conjunction with the method Akobany to register the energy-information effect hirudotherapy [Krashenyuk 1997]. The results confirmed the presence of significant energy-information effect exerted by the patient. Join the dynamics of change "energy-information field" during and after the course hirudotherapy researcher provides valuable diagnostic information about the health of the patient.

At present, we continue to improve this approach by studying the energy-information effect by gas-discharge visualization. We first attempted to classify the "energy-information effect" of the patient on the impact of medical leeches (*Hirudo medicinalis*).

Methods and devices

The studies were used medicinal leeches, grown in artificial conditions in the factory "Ros-pharmacy" (Moscow region), and leeches from the factory "Hirudin" (Balakovo, Saratov region). For the application of leeches were used standardized methodology. Leeches were placed in the anal area, which topologically corresponds to the lower chakra - Muladhara Chakra ".

To register a visual manifestation Kirlianovskogo effect was used a unique

instrument "Crown-TV". The images obtained by gas-discharge visualization were zaregestrurovany all patients before, immediately after and 30 minutes after the end of the session hirudotherapy. The data were analyzed based on programs gas-discharge visualization (GDV).

#### Neurotrophic effect

I'll tell you about one more opening associated with the work of our faculty. The discovery of neuro-trophic effect of leeches. For the first time we are faced with this effect a few years ago, when they started treating babies suffering from cerebral palsy. Such children with organic lesions of the central nervous system arising in the process of birth trauma,

#### Organotypic culture of spinal ganglia of chicken embryos

Stimulation of the nerve cells (neurons), observed with phase-contrast microscopy.

a. - Initial state,

b. - After exposure to leeches, noticeable characteristic neurite growth (shoots) tens of thousands, and help them extremely difficult. Doomed to Disability kids after our treatments are able to serve myself, go to the bathroom, the kitchen.

In 1996, together with the doctor of biological sciences NI Chalisova from the Institute of Physiology, we have shown that an extract from leeches can cause the growth of nerve cells, the cause of their processes through which they contact. The basis of the nervous tissue - is the transfer of information, thanks to this we live. Ability piyavochnogo secret is to restore the function of nerve cells is absolutely amazing, and opens a new very large possibilities for the treatment of organic lesions of the central nervous system, such as stroke, multiple sclerosis, Parkinson's disease, Alzheimer's disease, myopathy, adhesive disease, hearing and visual impairment injuries and many other diseases, to whom doctors gave up.

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