

## Medical Emergency, Its Technology for Use in Medicine and Their Reproduction

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Leprosy (Hirudinea) is a class of ringworms. Its body length is from a few cm to 15 cm, sometimes even longer. The body is flattened on the back and abdomen, sometimes cylindrical, with 33 outer rings. The number of outer rings of the body 3 is not equal to the number of inner rings, usually each outer ring has 3-5 outer (secondary) rings. About 400 species are distributed in freshwater basins and seas. Most leeches have two suckers, one in front of them and the other behind them. The mouth is lined with a sucker or Khartoum. Leeches live in the wild (leeches) or parasites (leeches). The leech feeds on small invertebrates, and the parasitic leech sucks the blood of various vertebrates and humans. The leech sucks a lot of blood into the very large sacs on the side of the intestine. The hirudin in leprosy does not clot the blood. Leeches breathe through their skin. Digestive system - metanephridia. The circulatory system of the leech differs from other roundworms in that it has no vascular wall epithelium, and the blood vessels are formed by the remnants of the body cavity. Leeches are hermaphroditic, laying their fertilized eggs in cocoons. The larva develops within the cocoon without change. 2 subclasses: ancient (Archihirudinea) and true leech. (Euhirudinea). True leeches are divided into Rhynchobdellida and Gnatobdellida. *Hirudamedicinalis* is used in the treatment of vascular diseases associated with thrombus formation (hypertension, early stages of sclerosis, stroke, etc.). Medical leprosy is propagated in special plants. Some leeches cause serious damage to fish. The Central Asian watershed is home to the *Glossiphoniacomplanata*, the *Haemopissanguisida*, and the *Limnatusturkistanica*. In the tropical forests of Ceylon and the Sunda Archipelago, the terrestrial leech (*Haemodipsaceyloca*) asked for human and mammalian blood.

Treatment of leprosy (girudotherapy) - benefits and harms, contraindications. Girudotherapy (Latin *hirūdō* - "leech" and in ancient Greek *therapeía* - "cure") - a method of treating certain diseases using medicinal leeches (*Hirudomedicinalis*). Physiotherapeutic treatment is considered an alternative medicine. Such leeches are the only species of this small class of worms, the rest have no healing effect.

Heart problems, dizziness, shortness of breath, infertility were treated with the help of leeches. Girudotherapy was so popular that Renaissance masters such as Botticelli even reflected it in their works of art.

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Hirudotherapy became popular in the late 18th and early 19th centuries. This method has been used to treat almost all diseases. During this period, leeches were grown on an industrial scale and exported between countries. Even Pirogov considered girudotherapy to be the most powerful method of treatment. Leeches are sold in all pharmacies.

Until now, however, doctors believed that the main "power" of leprosy was the effect of bleeding. And only in the 90s of the twentieth century, scientists proved that only bleeding has a therapeutic effect. The main healing factor is leech, which contains more than 15 unique bioactive substances. Interestingly, scientists have not yet been able to synthesize such a substance, although hundreds of millions of dollars have been allocated for research and development in the United Kingdom, Israel and the United States. Genetic engineering technology didn't help either.

The healing properties of the essential oils, have long been known in ancient times. The main ingredient is hirudin, which prevents blood clotting and stimulates the resorption of blood clots. Girudin and other bioactive components of saliva have bactericidal (kills pathogenic microbes) as well as bacteriostatic (prevents the growth and development of bacteria). Research into this substance has led to the practice of initiating the use of anticoagulants in medicine.

Leech saliva contains the enzyme hyaluronidase, which allows the active substances to penetrate deep into the tissues of the body - up to 10 cm. This enzyme also breaks down connective tissue, thus increasing the absorption of scars.

To breed leeches, you will need the following.

Buildings should maintain at least 25 degrees Celsius and 80% humidity. The size of the room depends on your "production" scale. If you want to deal with leprosy on a large scale, you will need to rent a building. If the wizard-production is not yet in your plans, one room in the house will suffice.

Three-liter jars - you keep these animals. You will need a lot of boxes. But these are trivial things, you see ...

Water filters - Medicinal leeches should be kept in the cleanest water.

Relationships with meat processing plants - leeches feed on cow's blood, so you need to agree in advance with local businesses about purchasing this raw material.

License - In a friendly way, you should have it. But more than five farms across Russia cannot afford it. The rest (minor ones) work illegally.

Peat is needed to breed generations of medicinal leeches.

People - you will need helpers to clean the water, wash the dishes. Although in the early stages you can solve it yourself.

Where to buy leeches for breeding. If you want to buy "useful bloodsuckers", it is better to do it from people who grow leeches on private farms or at home.

But be careful not to fall into the wild. In hirudotherapy, use "beauties" with green stripes and orange stripes on the back. Such caution and just attention ...

When medical leeches come to you, you will need to think about procreation. These animals are hermaphrodites. The growth process looks like this.

In the spring, put the leech in a bowl and leave it for a while.

Then transfer to a peat bowl.

After a few weeks, foam will form in the vessels containing the leeches, then a cocoon will appear.

Then two to fifteen ribs are "born" from this cocoon.

Only after a year will you be able to sell them to buyers.