

# ***LIGHT WATER***

**Presentation of innovative project  
"Deuterium Depleted Water"**



**Engineering Versatile Center Ltd  
Moscow, 2013 г.**

## ***Introduction.***

**This presentation is an innovative project to implement in industrial production and business practices of technology and equipment for the production of light water (LW) method of rectification of raw water.**

**This method can be used in industrial and domestic environment for drinking (bottled) water to the population, to improve human health and increase their life expectancy, for the needs of the food industry, agriculture, medicine and other fields.**

# **Contents:**

- 1) What is - light and heavy water?**
- 2) What is - light water (questions and answers).**
- 3) the distillation process for producing light water. (Schematic diagram of the unit and work).**
- 4) the distillation process for producing light water. (Diagram and photo unit).**
- 5) Conclusion on the isotopic analysis of light water in Russia (Moscow) in the isotope laboratory in the U.S..**
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## What is - light and heavy water?

Ordinary natural water with all known chemical formula  $H_2O$  in fact is not a homogeneous fluid but a mixture of 9 species of the molecule formed from the 2 versions of the hydrogen atoms ( $^1H$ ,  $^2H$ ) and 3 variants of atoms of oxygen ( $^{16}O$ ,  $^{17}O$ ,  $^{18}O$ ) called isotopes.

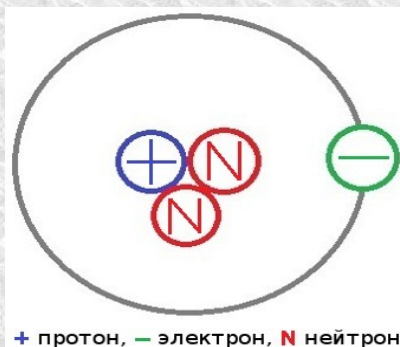
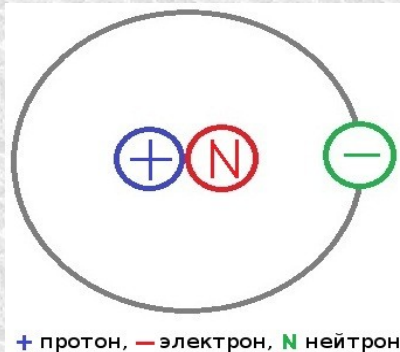
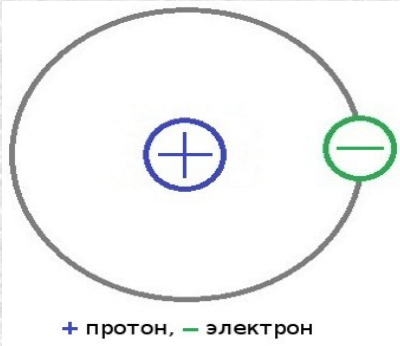
Let's look at the hydrogen isotopes. How do they differ from each other?

1st isotope - protium, 2nd isotope - deuterium, and third isotope of - tritium.

Protium ( $^1H$ ) is the most common isotope of hydrogen in nature. In the nucleus it has one proton and a single electron which revolves around it.

Deuterium ( $^2H$  - D) – in its nucleus in addition to the proton there is also one neutron which has no charge but adds weight of one atomic unit.

Tritium ( $^3H$  - T) - in its nucleus in addition to the proton there are also two neutrons. It is very rare in nature and radioactive isotope of hydrogen, barely contained in drinking water and it can hardly be considered.



# **What is light water (questions and answers).**

## **- What is a light water?**

Light water - water with low content of heavy water (deuterium oxide) as compared to the natural level

## **- To what class of drinking water belongs the light drinking water?**

Due to clearing of heavy water, light water gets vivid therapeutic and prophylactic properties. In addition, light drinking water is the water of the highest category, which contains the optimal number of macro and micro elements in waters of bicarbonate class.

## **- What are the properties of light water?**

Light water has anti-tumor, geroprotective and radioprotective properties, enhances the action of drugs and tunes up the immune system.

## **- What is the impact of light drinking water on the human body?**

Light water quickly and effectively removes metabolic products from the body, normalizes metabolism, blood pressure and blood sugar, increases the body's energy resources, contributes to rapid recovery of the body after heavy loads.

## **- Why should one drink light water regularly?**

Daily use of a light water can naturally reduce the content of heavy water in the body, normalize the functioning of cell membranes.

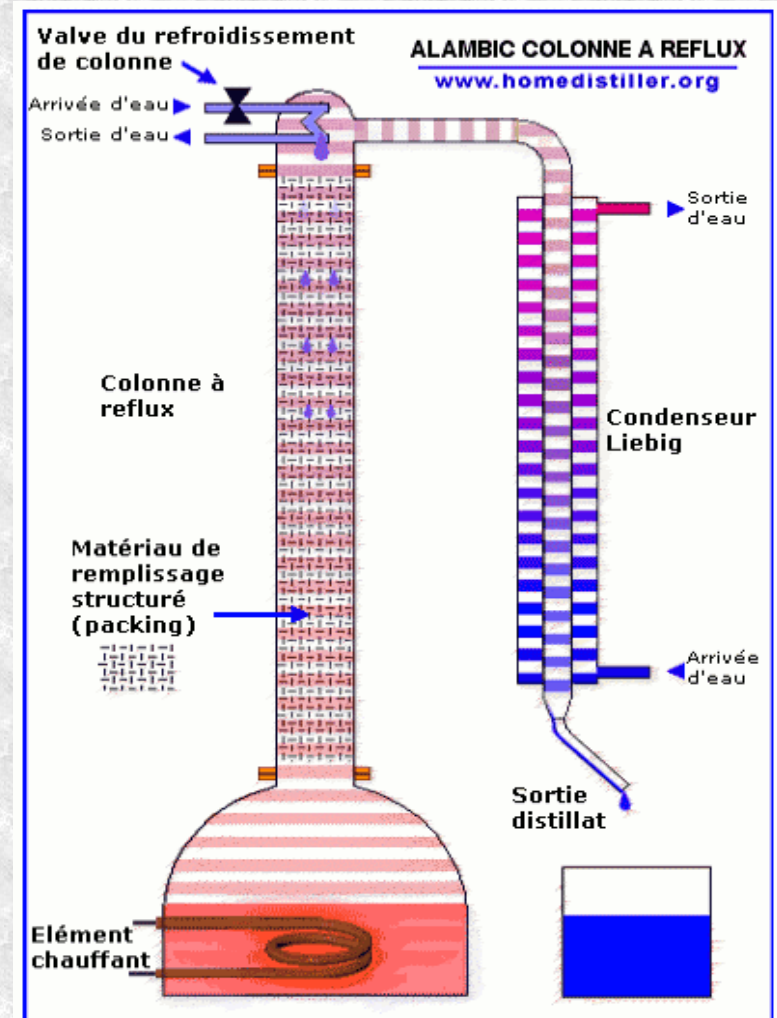
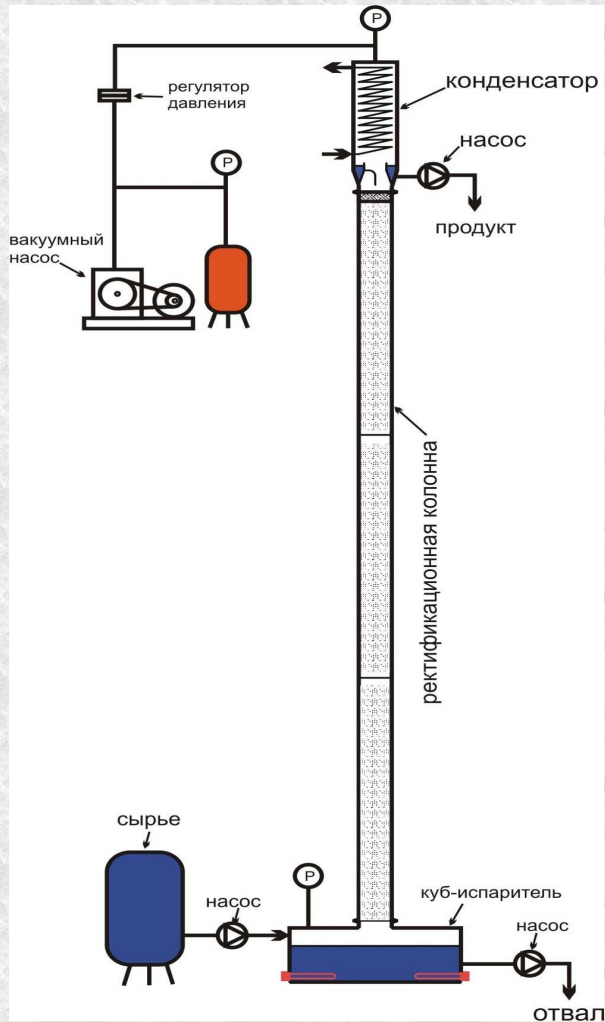
## **- What are the recommendations for the use of light water?**

To achieve the cleansing and revitalizing effect of the light water you must drink it regularly for 1-2 months.

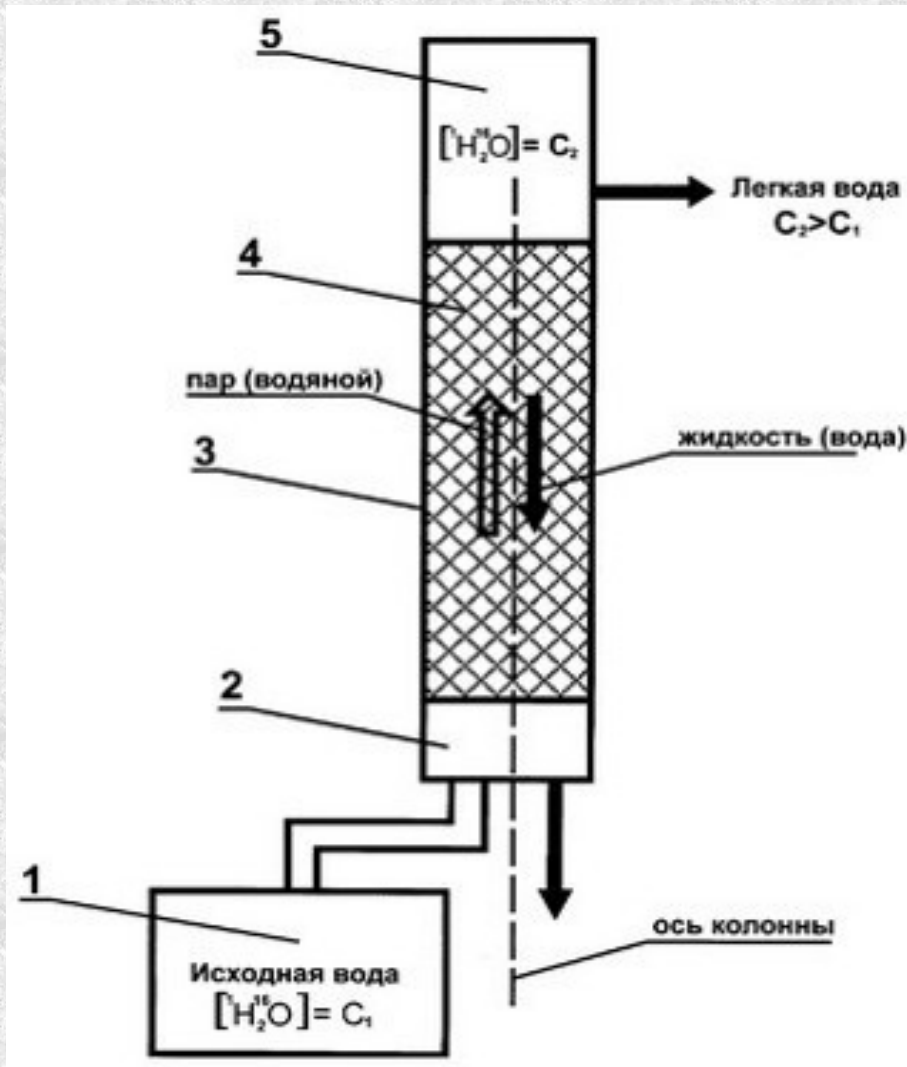
Daily intake of a light water - 1-1.5 liters.

The first intake of the water - in the morning on an empty stomach, from 0.250 to 0.5 liters. The remaining amount of the daily norm - during the day, as usual, it is best for 20-30 minutes before eating.

# Rektifikation way of reception of light water (Drawing of the device and the work scheme)



# Rektifikation way of reception of light water (The scheme and a device photo)



# The document on the isotope analysis of light water of the Russian manufacture (Moscow) in isotope laboratory in the USA.



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4<sup>th</sup> June, 2011

## Isotope Analysis Report

Hydrogen isotope results are reported below. Results are usually reported using the  $\delta$  (delta) notation, but for your convenience, these results have been converted into units of ppm deuterium.

Isotope analyses were performed using the technique detailed by Morrison et al. (2001).

Sample #	$\delta D$ VSMOW (‰)	ppm Deuterium
#1	-992	1.1
#2	-991	1.3
#3	-991	1.3

### \*\*\* IMPORTANT NOTE: \*\*\*

Please note that these samples had deuterium concentrations well outside the range covered by analytical calibration standards. Our analytical standard with the lowest deuterium concentration has 94.2 ppm deuterium. To my knowledge, the certified analytical standard with the lowest deuterium concentration available anywhere in the world has 89.1 ppm deuterium. As the samples provided for analyses has deuterium concentrations much lower than these standards (i.e. the deuterium concentrations for the samples was outside the calibration range covered by the analytical standards), there is probably a significant (but impossible to quantify) uncertainty associated with these results.

Should you have any questions, please contact me by phone or e-mail at the address above.

Sincerely,

Simon Poulson  
Associate Director, Nevada Stable Isotope Laboratory

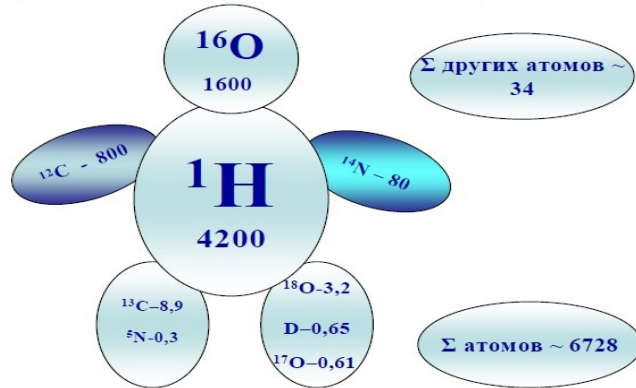




# Biological properties and effects of light and heavy water.

ИЗОТОПНЫЙ СОСТАВ ЧЕЛОВЕКА ПО ЧИСЛУ АТОМОВ  
ОБРАЗУЮЩИХ ЕГО ТЕЛО ЭЛЕМЕНТОВ  
(единица – число атомов  $\times 10^{24}$ )

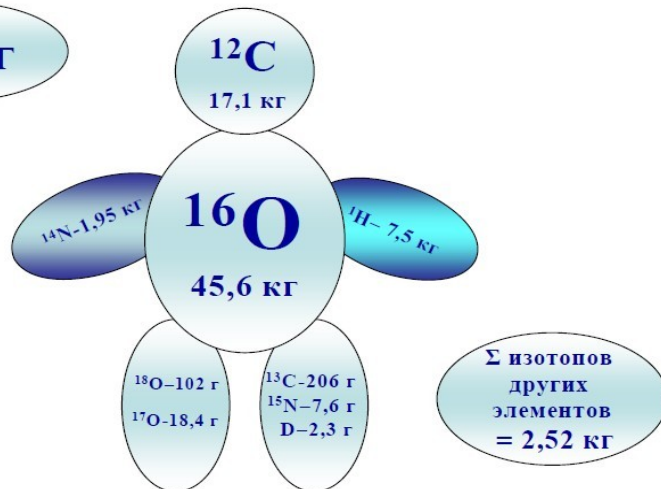
$^1\text{H} = 62,5\%$   
 $^{16}\text{O} = 23,8\%$   
 $^{12}\text{C} = 11,9\%$   
 $^{14}\text{N} = 1,2\%$   
 $\Sigma = 99,4\%$



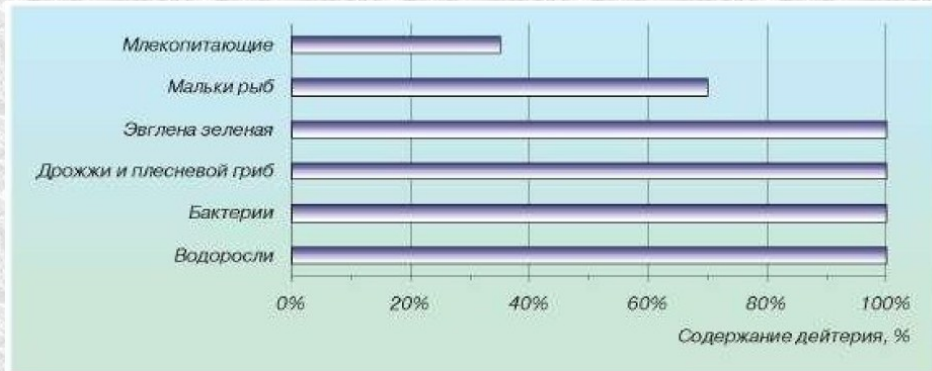
Light and heavy water have the opposite effect on humans and animals.

Light water activates the protective functions of the body, enhances immunity, leading to normalization of metabolism in cells, reduces body weight. Since light water is the most natural to the body's cells, it prevents or significantly hinders the development of the most difficult groups of diseases such as diabetes, cardiovascular disease, cancer and other diseases. And with the presence of symptoms of the disease heals it or helps to heal it as a supplement to other means.

75 кг



# **Biological properties and effects of light and heavy water.**



*Выживаемость различных организмов в воде с различными концентрациями дейтерия*

**Heavy water on the contrary has a negative effect on humans, animals, plants and suppresses their important life functions.**

**These tables clearly show how different concentrations of heavy water act on different biological objects.**



**Even a small reduction of heavy water molecules in total water volume is very beneficial to people's health, increases the life expectancy and moves the onset of old age at a later date.**

## **The use of light water in the treatment of diabetes.**



**Diabetes mellitus (DM) - a systemic disease caused by absolute or relative insulin deficiency, which initially causes a disturbance of carbohydrate metabolism, then the other exchanges, which ultimately leads to the defeat of all functional systems. Deaths from diabetes takes 3rd place after coronary artery disease and cancer.**

**Treatment of diabetes with light water is that the patient together with diet, insulin therapy or taking hypoglycemic drugs takes light drinking water with low content of heavy isotopes of hydrogen and oxygen - with total mineralization of 200-500 mg/l and deuterium content of 100 ppm and oxygen-18 is not more than 1,800 ppm in the daily dose of 1000-1500 ml starting in the morning with 200-250 ml before breakfast and the rest 30-40 minutes before eating or between meals every day during 28-45 days.**

**Light water with low content of heavy isotopes of hydrogen and oxygen, with total mineralization 200-500 mg / L is the best drinking water. This water has no restrictions on use, since it corresponds to the usual drinking standard. The greatest effect was observed when using water containing less than 100 ppm of deuterium and oxygen-18 is less than 1800 ppm.**

## ***The use of light water in the treatment of diabetes.***

**Regular use of such water leads to a gradual purification of biological fluids of heavy isotopes of hydrogen (deuterium) and oxygen (oxygen-18) in the body. This has a systemic effect on the entire body, since it leads to a change in the biological properties of water in the body.**

**The biggest impact the light water has on the cell membrane and the flow of metabolic processes in the body. The changes of the structural organization of the body enhance the biological activity of the light water of water environment and the improvement of the main regulatory systems for cleaning the cells of the water environment of the body of heavy isotopes. This is due to the fact that changes in the properties of water leads to a change in the macroscopic properties of biological membranes and characteristics of proteins embedded in it.**

**Heavy isotopes (deuterium and oxygen-18) impair the metabolic and energetic processes in the body at different levels. Greatest effect when it is found in the various enzyme systems, including those responsible for the transport of ions into the cell.**

**The positive effect of the light water is the normalization of carbohydrate and lipid metabolism, cell permeability and lysosomal membranes by improving the work of the various enzyme systems, including the systems responsible for the transport of ions, glucose and insulin in the cell.**

## ***The use of light water in the treatment of cancer.***

**First anti-tumor properties of light water were discovered in 1993 by Hungarian microbiologist G. Shomlai. In his view, light water is exceptionally original approach to the issue of slowing the rate of reproduction of cancer cells in the body. He argues that the regular use of light water to reduce the concentration of deuterium in the cells of the body and, thus, slow down and even stop the development of cancer.**

**The experiments established:**

- in an environment with a lower than natural deuterium content division of tumor cells MCF-7 (breast adenocarcinoma) starts with a delay of 5-10 hours;**
- with almost 60% of the mice immunosuppressed and transplanted human breast tumors, MDA and MCF-7 reception of light water (30 ppm) caused complete regression of tumors;**
- in mice with transplanted tumors PC-3 (human prostate tumor) receiving light water (90 ppm) allowed to increase the survival rate by 40%, the ratio of the number of dividing cells in the tumors of the lost animals of the experimental group was 1.5:3, and the control group - 3.6:1.**

**In clinical trials of light water held in Hungary in 1994-2001 it was found that:**

## ***The use of light water in the treatment of cancer.***

- **the survival rate of patients who used light water in combination with conventional treatments, or after they are significantly higher than in those who used only chemotherapy or radiation therapy;**
- **the survival rate of patients with breast cancer 4th stage, is used in the course of treatment light water, was two years in the 3-fold higher than in patients who used only traditional methods of treatment;**
- **the use of light water during or after sessions of chemotherapy can partially or completely remove the immunosuppressive effect of cytostatics, reduce or remove the adverse side effects of chemotherapy.**

**In all cases, there was a significant increase in the duration and quality of life of patients.**

**Light water research at the Moscow Research Oncological Institute. Herzen part A (in vitro) and the Institute of Carcinogenesis Russian Cancer Research Center. NN Blokhin (in vivo) (together with the State Scientific Centre "Institute of Biomedical Problems") confirmed the inhibitory effects of light water on reproductive processes of tumor cells and tumor growth. At present, these research centers to continue research related to the use of light water in treatment of neoplastic diseases.**

## ***Lightweight (melt) water and longevity.***

Normal tap water that we use most often consists of heterogeneous molecules, most of which is not involved in the metabolism mismatch size membranes of our cells. If all the water molecules are smaller than the holes on the cell membrane and to pass freely through it, the reaction would take place faster and more active exchange of salt.

Such an ideal water exists in the nature. It is melted water obtained from the ice and snow. If frozen and then thawed, water molecular diameter varies and they are fully suitable hole size of the cell membrane. Melted water easier reacts with various substances and the body does not need to spend more energy on its restructuring. Moreover, the active metabolism of the body leads to throwing away old, damaged cells that prevent the formation of new, young ones. As a result the aging process is slowed down. It is known that the main common feature for all the longevity groups of our planet is that they drink low-mineralized melted water coming from the glacial rivers. For example, residents of the town of Pakistani Hunzakut live for 100-120 years and there are documented cases where men over 100 years became fathers.

Benefits of melted water in the fact that unlike usual water it contains no deuterium, which suppresses all life and cause serious harm to the body. Deuterium in high concentrations is an equivalent to the strongest poisons. Deuterium is hard to digest, which requires additional energy consumption. The scientists found that even partial removal of deuterium releases large energy reserves and stimulates the vital processes in the body. Thawed water itself has a large internal energy and provides good energy recharge. The fact that the molecules become homogeneous not interfere with each other, and move in resonance, operate in the same frequency, producing a result more than the chaotic movement of energy.

## ***Cosmetic properties of light water.***

**Clean, smooth and elastic skin is an indicator of good health and normal functioning of the major body systems. Condition of the skin depends on the way of life and living conditions. Beautiful, healthy and young skin is the dream of every woman regardless of age. Over the years, the body decreases the amount of water that primarily affects the skin condition: reduced elasticity, the skin becomes dry and dull, wrinkles, wrinkles, age spots. In addition, the appearance of the skin affected by various metabolic disorders and even minor disruptions in the gastrointestinal tract and kidneys.**

**The daily use of light water contributes to the normalization of metabolism and improve the work of the kidneys, gastrointestinal tract, cleanse the body of toxins, which immediately affects the appearance: increased elasticity (turgor) of the skin, swelling disappear, greatly decreases the likelihood of the surface of inflammatory processes (Acne, pimples, redness, etc.).**

**Light water with regular external application:**

- Good moisturizes and tones the skin;**
- Reduces swelling and redness of the skin;**
- Anti-inflammatory effect;**
- Accelerates epithelization after cosmetic operations;**
- Effectively tightens pores;**
- Reduces the greasiness of the skin in the T-zone.**

**The unique properties of light water are confirmed by clinical trials in Cosmetology Clinic "Beauty Institute" (Moscow, conclusion № 127 from 23.04.2003, № 173 of 09.07.2003).**



# Cosmetic properties of light water.



## ЗАКЛЮЧЕНИЕ № 127

по проведению клинических испытаний легкой воды «Лангвей» с пониженным содержанием дейтерия

23 апреля 2003г.

г. Москва

Известно, что очистка воды от дейтерия сопровождается существенным увеличением ее биологической активности.

Целью испытаний являлось изучение влияния легкой воды «Лангвей», содержащей дейтерия в которой снижено в 1,5 раза по отношению к обычной воде, на репаративные процессы в коже, исследование ее увлажняющих, себостатических и потивоспалительных свойств.

Влияние легкой воды на репаративные процессы в коже. В ходе испытаний исследовали влияние подсушивающей маски, приготовленной на легкой воде «Лангвей», на кожу после чистки лица у 70 больных невоспалительными формами угревой сыпи и у 30 больных воспалительными формами угревой сыпи (в клинической картине заболевания преобладали постугревые высыпания, прыжковые элементы сыпи отсутствовали). Контрольную группу составили 20 пациентов, для которых в качестве растворителя для антисептической подсушивающей маски использовали раствор фурацилина.

После комплексной процедуры «Чистка лица» у всех пациентов опытной группы отмечено:

1. отсутствие осложнений в виде гнойничковых высыпаний;
  2. отсутствие признаков воспаления;
  3. ускорение процесса эпителизации (корочки отпадали на 3 дня раньше, чем в контрольной группе);
  4. выраженное сужение пор,
- что подтверждает наличие у легкой воды «Лангвей» противоспалительного, поросуживающего и стимулирующего регенерацию эффектов.

Исследование увлажняющих и себостатических свойств. В ходе испытаний пациенты в течение трех недель 2-3 раза в день орошали кожу водой «Лангвей». После процедур субъективно пациентами отмечено улучшение состояния кожи, объективно выявлена тенденция к повышению влажности кожи и снижению сальности кожи, в так называемой Т-зоне, уже через две недели после начала процедур.

Отмеченные эффекты легкой воды «Лангвей» позволяют рекомендовать ее в качестве одного из компонентов комплексной терапии сухой кожи лица.

Генеральный директор

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Заключение № 173

по проведению клинических испытаний легкой воды «Лангвей-100» с пониженным содержанием дейтерия

09 июля 2003 г.

г. Москва

Целью исследования являлось изучение влияния легкой воды «Лангвей-100» при приеме внутрь на базальный метаболизм, изменение процентного содержания общего количества воды и соотношение тощей массы и жиров в организме. Исследования проводили методом биоэлектромедиасметрии на аппарате Водуны – 1500 (Италия).

В исследовании были включены практически здоровые женщины в возрасте от 26 до 56 лет. Средний возраст обследованных женщин составил 46,3 года. Все обследуемые получали легкую воду «Лангвей-100» в суточной дозе 0,5 литра, что составляет в среднем 20% от общего ежесуточного потребления воды. Схема приема воды:

- первый прием утром натощак – 200-250мл
- оставшееся количество – в течение суток за 30-40 минут до еды

При этом все обследуемые вели привычный образ жизни.

На фоне приема легкой воды «Лангвей-100» признаков непереносимости или какие-либо побочные реакции у обследуемых не обнаружено. Все обследуемые отметили приятный вкус и мягкость воды, а также существенное снижение аппетита на фоне ее приема. Объективно в ходе исследования отмечена тенденция к увеличению базального метаболизма, снижению процентного содержания жира и увеличению процентного содержания воды в организме. Вес обследуемых женщин уменьшался за месяц в среднем на 1,6%, индекс массы тела снижился в среднем также на 1,6%.

В ходе испытаний отмечено увеличение суточного диуреза в среднем на 200 мл, что указывает на увеличение скорости водообмена в организме и легкое мочегонное действие воды «Лангвей-100».

30% обследованных, имеющих склонность к запорам, отметили умеренный послабляющий эффект легкой воды «Лангвей-100». На фоне приема легкой воды у них через две-три недели установился регулярный стул.

Субъективно всеми обследованными отмечено улучшение состояния кожи в виде уменьшения сухости, чувства стянутости кожи и прекращения легкого шелушения.

Результаты проведенных клинических испытаний свидетельствуют о хорошей переносимости легкой воды «Лангвей-100». Обнаружено положительное влияние легкой воды на общий обмен веществ, изменение массы тела и соотношение общей массы и жиров в организме, состояние кожи, деятельность желудочно-кишечного тракта.

Легкая вода «Лангвей-100» может быть рекомендована в качестве одного из компонентов в программах по коррекции веса.

Генеральный директор

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**Beneficial effect on the human skin of the external and internal reception of light water and excellent cosmetic properties are proved in clinical trials conducted in the famous Moscow Institute of Beauty in New Arbat.**

## **"I grew black hair"**

**(Article in the newspaper "Komsomolskaya Pravda" of the experiment for the rejuvenation light water)**



- Сейчас я седой, но когда-то был блондином. Поэтому находка - три черные волосинки, выросшие в верхней части лба, меня удивила. Уж не легкая ли вода так подействовала? Я брызгал ею на голову.

Specialists of the Institute of Biological Medicine (IBMED) stated that they learned how to reverse the aging process. "KP" offered to prove it in practice. I became a volunteer. At first I gave blood for analysis. Waiting for the results, after which it will be clear what exactly "youth pill" they will feed me. And to begin with scientists engaged in my face, burdened by the load of past 52 years. They rub creams, sprinkled with light water. And inject it stimulants - peptides. After that I go for two hours, as if bitten by mosquitoes. Unpleasant and painful.

- No one promised it would be easy, - said Dr. Olga Ivanova, sticking a needle in my forehead.

They promise more: creams and procedures need to rid the skin of wrinkles. Just for a start . Let's see ...

**Why not fight for beauty?**

## ***“I grew black hair”***

***(Article in the newspaper "Komsomolskaya Pravda" of the experiment for the rejuvenation light water)***

The feedback from readers began to pore in. Much distrust.

- Aging is not a disease - said by e-mail, for example, someone Heliopolis. - This is the normal state of the body. Any attempt to "cure" is doomed to failure.

Objecting: Many scientists believe the opposite. And it gives hope: age, or at least senility can be treated. And consider also, for example, wrinkles or wheezing with impotence and sclerosis of the "normal state of the organism" - means to surrender immediately. Without a fight. Perhaps, rotten teeth, dirt under the nails, hair and acne on his face is right too? A fat hanging from the sides? Then why people - not all, but many - are trying to elevate themselves, engage in physical exercise, go on a diet? So why not to fight old age?

**Life crisis**

- People's doubts are natural - says research director of IBMED Alexander Itkes. - Worldwide research centers are looking for ways to prolong life. A treasured elixir is still not found. But there are lots of theories - more than a hundred. And many myths. And the most common of them is that the old age can be won by any one drug.

## ***“I grew black hair”***

***(Article in the newspaper “Komsomolskaya Pravda” of the experiment for the rejuvenation light water)***

- I, - continues the scientist - share the views of those who believe that the “treatment” should be comprehensive. At least today, the root cause of aging is not yet determined, but the mechanism is already known.

So why do we age? Because over time the genes accumulate damage. The cells are deposited substances that accelerate their destruction. And the body's ability to self-renew and restore, on the contrary, decreases. Up to its complete disappearance in the second half of life. In the blood of the same content falls stem cells involved in maintenance. In short, the crisis.

- There is also a so-called Hayflick limit - says Itkes. - An American researcher Leonard Hayflick found that on average each cell is able to make not more than 50-60 divisions. And then it stops updating. Later the scientists understood why this happens. Each time a cell divides the DNA molecules are copied completely - they shorten. Solely by their tips - the so-called telomeres. They disappear for good - and life ceases.

## ***"I grew black hair"***

***(Article in the newspaper "Komsomolskaya Pravda" of the experiment for the rejuvenation light water)***

But as shown by experiments of Vladimir Khavinson of the St. Petersburg Institute of Bioregulation and Gerontology of the Russian Academy of Medical Sciences, you can extend the life of cells, causing them to share more times. With the help of short amino acid molecules - peptides.

- And we are looking forward to these peptides, - says Itkes - plus those that restored some "decrepit" organs and tissues. With these bio-regulators is possible to increase the average human lifespan to 120 years.

More on gerontological studies please visit <http://www.ibmed.ru/>

**MEANWHILE**

The strength of "living" water: roses before test (left), roses after test (right): 1. Usual water 2. Homemade light water 3. Light water



Розы до эксперимента(слева). Розы после эксперимента(справа). 1. Обычная вода. 2. Вода, облегченная в домашних условиях. 3. Легкая вода.

Фото: Анатолия ЖДАНОВА и Андрея КАРА.

## ***“I grew black hair”***

***(Article in the newspaper "Komsomolskaya Pravda" of the experiment for the rejuvenation light water)***

**In IBMED I was prescribed light water - to drink and spray on the face. Explaining that it is curative. Because unlike conventional it contains much less harmful heavy water (based on the heavy isotope of hydrogen - deuterium). Like people living in the mountains keep fit up to 100 years old because they drink light "living" water, which flows down to them from the glaciers.**

**I held my own experiment. Took the light water given to me in "Langvey-IBMED», in which the content of deuterium was reduced by 5 times. Then prepared the light water at home (put a plastic bottle in the fridge, froze to half and threw away the water that does not turn to ice: heavy water freezes first.) Finally, ordinary tap water. Then poured the water in three bottles and put in roses in each.**

**The result was obtained after 5 days. In normal water the rose quite withered. In the homemade - slightly faded. And in the light water kept cheerful.**

**Vladimir Lagowski lagovski@kp.ru**

# **An experiment on seed germination of oats in regular and light water.**



**T** — seed samples of oats, soaked light water.

**B** — seed samples of oats, soaked with plain water.

Left 6<sup>th</sup> day, right 20<sup>th</sup> day

## ***Sports Experiment watering racehorses light water.***

Фото 1. Фотография Натиска (011550), гнедого жеребца русской рысистой породы 1995 г.р., побившего в 1999 году после употребления 10 литров сверхчистой легкой воды «Протиус» самый старый Всероссийский рекорд, продержавшийся более 58 лет! (приводится по иллюстрации Каталога [2])



**In 1999, the light water has been tested at the races held at the Moscow Hippodrome.**

**Light water used in the preparation for the races bay stallion Russian trotters born in 1995 named Onslaught. Just 5 hours before the race horse drink light water while he drank in 3 divided doses for 20 minutes, about 10 liters of light water, which is approximately 20 to 50% of the daily requirement.**

**According to the observations of all those present during the procedure of drinking stallion Onslaught drank water readily, felt fresh and up to the launch was physically active and ready for the race. Horses, known for their great achievements in the race at a distance of 3200 m took part.**



## ***Sports Experiment on watering racehorses with light water.***

**In this race Onslaught set a new Russian record - 4.12,0 3200 m for the four-year stallions. In doing so he broke the oldest record of Russia - 4.20 6/8 to 3200 m, established by the famous stallion Huron in 1941 and held for more than 58 years!**

**It is also interesting to note the stability of the results, which the stallion Onslaught showed in the next 3 years (Moscow - 4.19,3, 4.18,4, 4.12,8), each time showing the time better than the phenomenal record in 1941, which stayed for over half a century. But the record-in 1999 for the 4-year old stallion Onslaught set after consuming ultra-pure light water still remains unsurpassed.**

**Since the mechanisms of the action of the light water on humans and animals are alike, improved health and physiological parameters for people who are professionally engaged in sports and physical culture enthusiasts also comes with excellent results.**

# **Article in the newspaper Trud-7.**

## **Living water from space**

Amazing innovations soon apparently come in our lives from the laboratories involved in the preparation of the first ever manned mission to Mars. Many developments intended for the spaceship and its life-support systems are helpful on our planet. "The impact of advanced, cutting-edge technology is so strong that we kind of get back large sums that are spent on space exploration" - says Chief Designer of Keldysh Research Center, coordinator for the Martian project Vitaly Semyonov

## **MIRACULOUS ELIXIR**

- One of the best examples – the designer began our conversation – is a new technology for producing drinking water without deuterium to be used by the crew of an interplanetary spacecraft Mars. The technology is being developed in the Institute of Biomedical Problems, Russian Academy of Sciences. This fluid has many remarkable qualities. Deuterium is an isotope of long-known (kind) of hydrogen. In the normal water content of deuterium - is negligible, some one hundred thousandth share. But this almost ghostly isotope, as it turns out, plays a very prominent negative role on the man. Different researchers independently came to the same conclusion: the isotope is harmful to the body. The less is its presence in the water, the better.

The experiments clearly showed that drinking water with DDW (for brevity experts call it "without deuterium") acquires anticancer properties. At one time in the scientific world, it became a sensation. As an example, let's recall only one study. Mice were artificially infected with cancer introduced into their bodies - strain of Lewis lung carcinoma. Moreover, the disease was at a stage that spread metastases throughout the body. And these mice were then given water in which the deuterium content was 5-b percent lower. The effect was startling: the growth of metastases was delayed by 40 percent.

the "miraculous elixir" is slowing down the aging process in the body. The scientists used a melt water in which the presence of harmful isotope is about 10 percent less. It was given to fed pigs, chickens, mice ... And this is what it led to. Pigs gave more offspring and the weight of piglets was higher than in the control group. Male mice increased sexual activity. Chickens began to give two and a half times more eggs. Even wheat which was poured with melt water, grew faster, and yield increased by 58 percent ...

- Vitaly Feliksovich, perhaps pure, distilled water, would give the same results?

- We made experiments with the distillate. It was found that such water, conversely, inhibits the living organism and does not encourage it. Today, professionals do no doubt – the no deuterium water has beneficial effects on living organisms. This is important for astronauts, which during the long interplanetary flight will operate a number of unfavorable factors, including radiation and trace contaminants in the air. To ease this adverse effect, the astronauts will drink no deuterium water. The unique technology of its receipt on board the ship and a working model of the laboratory setup developed team of Russian scientists and engineers led by Professor, Doctor of Technical Sciences Yuri Siniaka. I think that with appropriate refinement of technology as applied to terrestrial conditions such devices might find a very wide application in hospitals, health centers, businesses and at home, for, among other things no deuterium water increases efficiency, improves health, enhances the protective properties of the body . And, as already mentioned, slows the aging process ...

- Why not collect snow, which is abundant in Russia in winter, and then supply the population with melt water?

- No, it's a two-bit version. The environmental situation is such that the snow (even in remote areas of the country) has many impurities. In addition, the melt water contains only 10 percent less deuterium than normal, and the plant, which was discussed, makes it possible to reduce its content by 65 percent. The medicinal properties increase many times. Finally, you can saturate the healing water also with useful microcells ...

**Interviewed by Vitaly Golovachev**

## ***List of medical institutions having made clinical trials of light water.***

- **RRC Rehabilitation Medicine and Health Resort Health Ministry** (Conclusions b/n on 23.01.2003, 22.07.2003).
- **Cosmetology Clinic "Beauty Institute", Moscow** (Conclusions № 127 from 23.04.2003, № 173 of 09.07.2003 g.)
- **Center for rescue operations at particular risk "Leader" Emergencies Ministry** (Resolution № 1 of 06.10.2003).
- **«Samara State Medical University" and the Children's Clinical Hospital № 1, Samara.** (Report "Using light water" Langvey "to optimize the treatment of children and adolescents with type I diabetes," 2007).
- **Peoples' Friendship University, Moscow, Russian Research Centre "Radiology", Moscow** (11th International Symposium "Human ecology and biomedical safety of the public," 23-29 October 2006 Spain, city of Benidorm. Report "On possible diagnosis of cancer by measuring the isotopic composition of hydrogen in biological fluids ").
- **Moscow Cancer Research Institute. Herzen, ITC "Iceberg"** (International Symposium "Human ecology and biomedical safety of the public", Greece, about. Crete, city of Rethymno, 2-9 October 2005 report: "The influence of light water" Langvey "on toxicity cytostatics in mice ").

## ***List of medical institutions having made clinical trials of light water.***

- **Cancer Research Center. NN Medical Sciences (Moscow).**
- **Institute of Biomedical Problems, Russian Academy of Sciences, Moscow** (Report: "The inhibitory effect of water with a low content of deuterium on the growth of transplanted tumors").
- **State Institute of Surgery. AV Vishnevsky, Moscow** (7th International Congress EVATEK -2006 - "Water Ecology and Technology", 30 May - 02 June 2006. Reports: "The influence of water and DDW on the cells of human immune system in health and disease", "Influence water DDW on superoxide production by neutrophils in the system in vitro »).
- **Russian Medical Academy of Postgraduate Education, Clinical Hospital № 1, RAO Russian Railways** (Report "The influence of light water" Langvey "on fragments konrementov elimination and reduction of complications after external shock wave lithotripsy").
- **Institute of Human Ecology and Environmental Hygiene them. AN Sysina RAMS** (Conclusion № 6/24 of 09.07.2002, the).

## ***List of medical institutions having made clinical trials of light water.***

- **Institute of Human Ecology and Environmental Hygiene them. AN Sysina RAMS Sanatorium Association "Caucasian Riviera", Sochi** (Scientific-Practical Conference "The role of water in maintaining health, preventing and treating diseases. Adaptation to the harmful effects", Sochi on 27-28 October 2005 report, "Water with change in isotopic composition: Preparation and its medical and biological properties").
- **National Institute of substitutes and medicines** (Opinion of 23.11.2002 № 1-1-10/198 city).
- **Institute of Physico-Chemical Medicine** (Report "Bioassay light water" Langvey ", Moscow, March, 2003).

## ***Heat recovery in production of light water.***



**In production of light water as the production waste produce large amounts of blade (water used to cool the equipment - rectification columns) and is heated in the process.**

**Not economically feasible to pour it down the drain. If you have the production of light water next to the greenhouse complex, you can easily use the water for irrigation of vegetables, fruits and flowers for their improved germination and increase crop yields, and the hot water can be used for heating greenhouses.**

**In addition, the hot water can be used for heating in the autonomous heating systems at various sites, including the production of the light water, and it is also possible to file a centralized heating system and hot water settlements.**



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