

## Ionized Water & Mice: Diabetes, Cholesterol, Cancer...

### English Narration

This video is showing a variety of research done by Japanese scientists related to mice. This particular experiment is done with a group of mice that has diabetes genetically and they are genetically bred to be fat and also have high cholesterol.

Now, toward the beginning of the experimentation they're taking their blood sugar and testing it. Now there are two groups here that they've divided them into. One that drinks general water and their blood sugar's 69. The other group is drinking alkaline ionized water and their blood sugar is 53 here. Now they're going to give them the same food, and all the other same conditions. Two months later they're testing their blood sugar, and they're also going to test their fat and bad cholesterol levels.

Basically the type of ionized water they're giving them is the kind where you add magnesium in the presence of magnetized ceramics to create a light ionization. This is similar to what you would find with the WellBlue pitcher or other non-electric water ionizer device.

Here's the blood sugar testing and graph and all that. Now you can see that the general water group has much higher blood sugar levels than the alkaline ionized water group.

Now here's the fat levels. Again, much higher fat levels. Even though they're bred to be fat, the alkaline ionized water drinking group is far less fat.

And, now they're testing the bad cholesterol, which is the LDL. Again, the LDL is showing up far better results with the alkaline ionized water group.

This just proves that not only is the alkaline ionized water helping their blood-sugar levels, but also other conditions related to diabetes are being helped by alkaline ionized water.

Now here's a new experiment. They're testing for the anti-cancer effect of alkaline ionized water. All of the mice are being injected with cancer. They're split into two groups, and one group is fed general water and the other one alkaline ionized water.

What they're gonna do is they're going to test the tumor size in 15 days. As you can see on the right the general water drinking mouse has a far greater tumor size than the alkaline ionized water drinking mouse.

Now, this is bigger in size and weight. They're testing all of these various things.

Here's a new experiment. They put tumors into the tails of these rats, and this experiment is measuring the growth and spread of colonies of tumors into the lungs of these rats. Here's the lungs of the rats. On the left the lungs have a lot more colonies of

cancer, those are the black dots, than the right. The right is the group drinking alkaline ionized water. It's about double the growth rate in the group drinking general water.

Here's a new experiment. They basically are testing active oxygen levels, which is another way of saying free radicals. Now free radicals have a positive effect – killing germs. Yet free radicals when coming in contact with other oxygen in your body or cells, etc. can rob them of their electrons and then burst them or destroy/damage cells inside your body. That is a negative effect of active oxygen. You don't want an off-balance. You need active oxygen, but you do not need an over-balance amount of it.

These scientists are using medical equipment/techniques/tools and whatnot to test the damage-levels of DNA.

There's pretty significant levels of general water injecting into the DNA solution. But when they injected alkaline ionized water into the DNA solution it did not damage the DNA.

Here's a new experiment. They're basically injecting these mice with tumors, and as the mice are developing this cancer, 20 days later, they are being tested for active oxygen levels within various organs. The strel-levels of cancer on the body of the mouse will tend to increase the active-oxygen levels within the various organs of the mouse and damage them. Yet, the group of mice that were drinking alkaline reducing water have far less active oxygen inside their various organs: lungs, liver, kidney.

They are showing a better balance of active oxygen. Like I was saying earlier about active oxygen, you need it, but you need a balance.

### **Original Captions:**

0:02 The mouse, OlletTF [a strain of rats that is fat and is used as a model for type 2 diabetes] which cause diabetes themselves owing to genetic fatness was used at the experiments.

0:06 Divided as two groups having 8 ones each, one was made to drink general water and the other was made to drink alkali reducing water [ionized water] made using minerals. [For these experiments the Japanese scientists used the non-electric technique of ionizing water which adds magnesium to the water in the presence of magnetized ceramics.]

0:21 The mean [average] blood-sugar levels of these mice are 69 and 53 each.

- Mouse which drink general water – 69
- Mouse which drink alkali reducing water – 53

Feed was distributed the same

0:41 [Two months later]

For two months regularly, while collecting blood of the two groups mice, the value of blood sugar, neutral fat [body fat], and cholesterol were checked.

0:54 As mice raise blood-sugar themselves **the key point of this experiment is how much reducing water can restrain the raising of blood-sugar level.**

1:03 The first thing is the change of the blood-sugar's value.

1:07 It was confirmed alkali reducing water has the effect of restraining [lowering or keeping it from raising] about 34% of **blood-sugar level** compared with general water.

[graph shows general water group 69-203 and alkali water group 53-153]

1:22 Following is the change of **neutral fat's** [neutral fat is body-fat, i.e., found around the torso and thighs] value. In this, alkali reducing water also has the effect of restraining about 30% of neutral fat's value compared with general water.

[graph shows general water group 77-356 and alkali water group 70-285]

1:36 How is the value change of cholesterol combining with the **unhealthy cholesterol**, that is to say LDL.

[graph shows general water group 17 – 56 and alkali water group 15-24]

1:49 **This experiment is proving alkali reducing water has the effect not only on restraining blood-sugar's value, but also on the various kinds of an adult disease like hardening of the arteries and so on.**

## **New Experiment:**

1:58 [The experiment of alkali reducing water's **anticancer** effect]

2:03 Following is the experiment to examine anticancer effect.

2:06 After injecting melanoma as malignant skin cancer's cell strain into the abdominal cavity of the experimental mouse, it was intended to observe the spread speed and size of cancer.

2:15 Divided mice as two groups, one was also made to drink alkali reducing water and the other was made to drink general water. Feed was distributed the same

[After 15days]

2:36 Compared with 10.78 mm of tumor size of the mouse drinking alkali reducing water, that of the mouse drinking general water was doubled as 20.11 mm

2:51 This time, the weight of tumor cut from the mouse was measured.

2:58 The weight of tumor:

- Alkali reducing water 2.3g
- General water 48g

3:05 Compared with 4.8g tumor weight of the mouse drinking general water, that of the mouse drinking alkali reducing water was only 2.3g, so it was no more than half.

### [New Experiment]

3:12 Also the colony grown with skin **cancer** cell injected on the tail **spreading** into lungs, that is to say, the number of cancer cell colony showed large difference.

3:21 What appeared as black dots at the white lungs are cancer cell colony.

3:27 Cancer cells of the mouse drinking general water is 260 and cancer cell colony of the mouse drinking alkali reducing water is 145.

3:37 Cancer cell colony: [picture] This is the part showing alkali reducing water has the anticancer effect of even restraining tumor spread.

### [New Experiment]

3:47 2% of oxygen man breathe turns into **active oxygen [free radicals]** in human body.

3:52 Active oxygen has two faces of beneficial role to resolve foreign substances like bacteria to invade into body in leucocyte but of extra active oxygen's destroying tissues and cells on the contrary.

4:07 In other words, active oxygen is short of electrons or has them too much more than necessity, so it tries to seek stability themselves taking electrons away from the different substances.

4:20 Because of this, its reaction power is very outstanding, and it speeds up aging and causes illnesses attacking cells or DNA within the tissues without distinction.

4:32 At first, alkali reducing water and general water as an object of comparison were mixed with Plasmid, or DNA abstracted from bacteria separately.

4:39 After that, the change of DNA was checked generating active oxygen in the incubator.

5:59 General water injecting: DNA destroyed by active oxygen

5:07 Alkali reducing water injecting: DNA restored

5:15 So to speak, while general water doesn't protect DNA from active oxygen and DNA is destroyed instantly, alkali reducing water prevents active oxygen from invading and it's keeping the state of DNA

### [New Experiment]

5:33 After injecting melanoma as malignant skin cancer's cell strain into the experimental mice, these mice were separated as two groups drinking mineral alkali reducing water and general water.

[20 days later]

5:48 Extracting organs from the two groups of mice each, the amount of active oxygen existing within them was measured.

[graph shows "The amount of active oxygen (free radicals) within the lungs"]

- Mouse drinking general water 600
- Mouse drinking reducing [alkaline] water 510

[graph shows "The amount of active oxygen within the liver"]

- Mouse drinking general water 410
- Mouse drinking reducing water 330

6:20: [graph shows "The amount of active oxygen within the kidney"]

- Mouse drinking general water 590
- Mouse drinking reducing water 390

6:39 These effects are because rich hydrogen in alkali reducing water takes the role of changing active oxygen into water combining with active oxygen.

6:49 **In the long run, it's regarded alkali reducing water has the ability to get rid of active oxygen.**