

This is a transcript of a 13 Part Television Documentary Series

"MIRACLE WATER" by NNN/NHK TV Japan, and shown on Japanese National TV in 1996

**Ionized Alkaline Drinking Water and Ionized Acidic Topical Water:
"MIRACLE WATER"**

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Introduction

At the Urging of the Japanese Minister of Health, a Japanese Public TV Station Created an Educational Documentary Series - which followed the recovery of a diabetic patient suffering from gangrene of the foot. The film follows the patient, Mr. Abe, from Day One through his complete rehabilitation. The conversation with the doctors went as follows:

"The doctor at the first hospital told me that they had to amputate my foot and the toe on my other foot. If I lost both, I wouldn't be able to work or walk, so I left that hospital':

Mr. Abe was fortunate to know a reporter on the staff at the TV station who took up his cause and helped by directing him to a hospital using the Ionized Water treatment.

Mr. Abe says, "The water makes me feel light and I am in good shape. Now I think I can work after being released from the hospital and am looking forward to that "

Mr. Abe once considered committing suicide thinking there was no chance to save his foot. "My leg would have been cut off, if it would have been two days later. It might have been hell, but now I will be able to work again after I get out of the hospital. I used to take 16 units of insulin, but now doctors reduced it to 10 units. I used to take only 1200 calories, but now I take 1600 and I feel just fine. As they give me more of the water, I feel better and better".

1. Prevent Food Poisoning from Bacteria

Announcer: "Today is the first of a series, and it's about food poisoning."

Reporter: "With the rise in temperatures, the most dangerous time for food poisoning is approaching."

[on screen] Inspectors at the Tsukiji Fish Market, Tokyo

Inspector: "Hello, now that summer is almost here, we'd like to check the safety of your shellfish and get some samples from you."

Vender: "Sure, go ahead."

Reporter: "Market sanitation inspection officers are here at Tsukiji Market in Tokyo to check the sanitary conditions of the fresh shellfish."

Inspector: "I have some namamushi. One more sample. Let me take some trough shells."

Reporter: "A bacterium called vibrio is one cause of food poisoning. It likes salty water and thrives in the shellfish regardless of its freshness. So these inspection officers visit the market periodically to take samples of shellfish and to check the sanitary conditions. Food poisoning makes you very sick."

[on screen] Ambulance

Reporter: "There were 37,561 cases of food poisoning in Japan in 1990. Food poisoning causes vomiting, diarrhea, exhaustion, high fever, and headache. It is said that once food poisoning occurs, restaurants suffer loss of business for the next 10 years. So, they are very careful about it at this time of year."

[on screen]

Inspector: "Bacteria called vibrios live in ocean water. They attach themselves to fish and are taken to land in the catch. These are Salmonella. They can be found in the eggs and meat you purchase."

Reporter: "Other bacteria that cause food poisoning are Staphylococci and Colon bacilli. They are also found inside our bodies and can multiply if conditions are right."

[on screen] Five petri dishes: Top left: Salmonella Top right: Staphylococci

Center: Vibrios Bottom left: Colon bacilli Bottom right: Cereus

[on screen] Scene of people dining at a wedding reception

Reporter: "If the bacteria that cause food poisoning are hiding in the food, this kind of party will not be a very fun experience in a couple of more hours. However, there is no need to worry any more. Strong disinfectant water can now prevent food poisoning."

[onscreen] Nihonkaku

Reporter: "This is Nihonkaku, located in front of Higashi Nakano Station in Tokyo. Here, wedding receptions for 14 couples can be held at the same time. The staff can serve up to 3600 people, preparing over two tons of food a day, including vegetables, meat and fish."

[on screen] Cooks inside the kitchen of Nihonkaku

Cook: "One hundred percent of the food brought into Nihonkaku has some kind of bacteria on it. So, we have to eliminate the bacteria entirely before we start to prepare the food."

[on screen] Water faucets in the kitchen at Nihonkaku, sixteen faucets with very strong disinfectant water are set up. Raw meat, the cutting boards and everything else is washed with this water.

[on screen] Mr. Ryuichi Ishizuka, Director of the Cooking Dept. at Nihonkaku

Mr. Ryuichi Ishizuka: "We've been using this hyperoxidized water for washing for about seven months. The bacteria that cause food poisoning have been eliminated. We tried to get rid of these bacteria before, but we were not able to do so completely. Now, as long as we use this disinfectant water, we will be safe."

[on screen] Mr. Nomura of Nick World with two sets of petri dishes

Mr. Nomura: "The easiest way to find out whether there is bacteria or not is to culture them in agar. The colored petri dish contains Colon bacilli and the non-colored one another type of bacteria. A sample culture is taken from a woman's hands before and after washing. Samples were also taken from the cutting boards and meat."

[on screen] Four petri dishes 24 hours later

Mr. Nomura: "These are the results of the bacteria culture 24 hours later. A big difference is seen.

Left: Hands before washing. Right: Hands after washing."

[on screen] Two petri dishes

Mr. Nomura: " This is the result of the cutting board surface before and after washing. There is absolutely no bacteria seen."

[on screen] Dr. Matsuo of Miura Electronics, the inventor of the machine.

Dr. Matsuo: "First, tap water comes in this way. In order to electrolyte the water easily, we add some salty water which makes it conduct electricity better. Then direct current is applied to the water, and that is how electrolysis is done. When you perform electrolysis on water by adding salt

and direct current to it, you can create alkaline water on the negative side and hyperoxidized water at a pH of 2.7 or lower on the positive side. When bacteria come in touch with the hyperoxidized water, they die.

Another condition that effects bacteria is the water's oxidation-reduction potential (ORP). The remaining chlorine and oxygen in the water also help to eradicate bacteria. In the kitchen at Nihonkaku, not even bacteria that causes food poisoning are present anymore."

[on screen] Six petri dishes From left: "Staphylococci, vibrios and Colon bacilli."

Dr. Matsuo: Top: "Before treatment by hyperoxidized water."

Bottom three: "After treatment; you can see that these contain no bacteria."

[on screen] A man at the reception being interviewed

Man: "Is it the water that does the disinfecting? I haven't seen the results of the water analysis, so I cannot really say anything."

Reporter: "Let's have you look at the world's first color laser microscope."

[on screen] Salmonella bacteria moving around

Reporter: "A drop of strongly oxidized (acidic) water is placed on the bacteria. The moment the water contacts the salmonella, they die."

[on screen] Salmonella

Right side: Before hyperoxidized water was added Left: After hyperoxidized water was added.

[on screen] Reporter/cameraman drinking hyperoxidized water

Reporter: "Drinking this water causes no harm at all to the body. Very mysterious water."

Reporter: "Here at Nihonkaku, after the dishes are prepared and ready to serve, the food wagon is covered tightly with plastic wrap to prevent the invasion of bacteria and stored in the refrigerator until serving time."

[on screen] Doors opening to newly weds

Reporter: "Now the wedding reception is in full swing. We hear the sounds of families and friends clapping as they welcome the newly weds. It sounds like noise from the disinfectant water that prevents food poisoning."

Announcer A: "This is great! This is real?"

Announcer B: "Yes, it is real. Normally when we talk about water disinfectant, we are talking about chlorine. But, if you can disinfect water with only water, problems such as the stringent odor and harmful side effects will be solved."

Announcer A: "Tomorrow, we will report on water that is widely used for medical treatment."

2. Electrolyzed Acidic/Alkaline Water in the Medical Field

Announcer A: "Water electrolyzed into acid and alkali has proven to be effective in many areas."

Announcer B: "In our series featuring this so called miracle water, we look at how the water has been used in the medical field." "Athletes foot is a nasty fungal disease and painful condition. It is very difficult to cure. Many people suffer from athletes foot after wearing shoes for long periods of time, but athletes foot can be cured by electrolyzed water."

Reporter asking a patient: "Do you believe that it is just water that is used in the treatment?"

Patient: "No, I don't believe it."

Reporter: "Do you feel any pain in the infected part?"

Patient: "No, I don't."

Reporter: "This is Kyowa Hospital located about forty minutes from Kobe station. At the hospital athletes feet, hands and bed sore are treated only with water. The doctor says that, unless there is infection, the troubled part will heal completely. It is necessary just to irrigate and apply a bandage. The treatment of this injury, caused in a motor bike accident, was just dipping it in the water for fifteen minutes."

Reporter: "Did you think the water was a disinfectant solution?"

Patient: "Yes I thought so at first, but later I learned that it was just acidic water."

Reporter: "How did you feel about that?"

Patient: "Well, I doubted it would heal the injury."

Doctor: "Don't worry, the water has an excellent sterilizing effect."

The director of the Kyowa Hospital, Sosuke Kawamura says: "The electrolysis of tap water produces alkali water at the cathode and acid water at the anode. We are using the acid water after watering it down to a pH value of 2.6. This high acid water kills fungus, mold and bacteria although perhaps that may seem hard to believe."

Reporter: "You can see at how the bacteria actually died using this laser color microscope, the first to be developed in the world. As you can see, moving here is spirilla bacteria which is similar to a bacteria that causes syphilis. Acid water is poured over it, and as soon as the water covers the bacteria, they stop moving."

Bacteria such as spirilla and many others can only survive in an environment with a pH value of between 3 and 4. Acid water has a pH value of 2.6, which kills everything. The oxidization reduction electrical potential and chlorine and oxygen also help kill these bacteria."

This doctor says: "We don't use antiseptics, we use electrolyzed water. One of the patients allowed us to take pictures of his bed sores and how it has healed. It worked right down to the bone."

Bedsore even this bad are healed by using the water, it works better than any medicine. Electrolyzed water works better especially for bed sores."

Reporter: "We visited Akashi hospital to look at some of the promising results."

The Doctor there says: "Without using disinfectant, ointment or intravenous drip infusion only electrolyzed water for treatment for two weeks there has been no infection, the surface of the ulcer has been recovering drastically, the recovery process seems extremely good, it is very surprising. It is amazing."

Reporter: "While making the report in the hospital, this reporter was told that after giving patients alkaline electrolyzed water, the patient feces becomes odorless. Going into the sick rooms, despite the fact that many patients were wearing paper diapers in bed, there was no fecal odor at all. The patients recovering rate was in fact so rapid that more and more patients are getting around in wheel chairs."

Announcer: "Because of the drastic changes at the hospital, even nurses and doctors are now taking the alkaline water home and drinking it themselves. Our reported went back to Kyowa Hospital to find out the additional advantages of alkaline water."

Nurse: "We boil alkaline water to use for making babies milk. All the employees here usually drink tea made of boiled alkaline water."

Reporter says: "I hear you don't catch colds?"

Nurse: "No, everybody here is fine because they all drink alkaline water."

Reporter: "In the hospital a machine from which patients can drink alkaline water was installed seven years ago. There are people who claim to have cured their scleroses of the liver or diabetes which are very hard to treat with western medicines, simply by drinking electrolyzed alkaline water."

This is Katsumi Nakanishi who recovered from sclerosis of the liver.

Mr. Nakanishi "I drank a lot of the water as I had a bad liver, and it was always burning. My

figures went down and down. I am now well."

Shigeru Takahashi recovered from diabetes says: "I could not believe that the water could cure my disease in the beginning. I have been suffering from diabetes for fourteen years but with the electrolyzed water, I cured it."

Reporter: "What happens inside the body? We interviewed a doctor who teaches the effective use of this water on the body. Chief editor of the Water society."

Dr. Hidemitsu Hayashi: "You will have clean feces if you drink alkaline electrolyzed water. Electrolysis has the function of detoxifying or neutralizing toxic substances such as hydrogen sulfide and ammonia contained in the feces. You can see that this toxic substance will start to decrease as you drink the electrolyzed water. As a result you will have a healthier liver, the

organ which has the function of neutralizing toxic substances in the body, and then your whole body will start to feel better since the functions of all the organs in the entire body start to improve."

Announcer: "Numerous diseases including high blood pressure, stomach ulcers and duodenal ulcers improve as a result of using this water. It is amazing that it has so many incredible results.

Tomorrow we will have another in the series on MICRO WATER."

3. Agricultural Chemicals Replaced by Water!

Announcer A: "Again tonight we are reporting on a wondrous water. We reported that this water is very effective for medical use and for preventing food poisoning. The water is used as a substitute for agricultural chemicals as well."

Announcer: "We asked an agriculture expert what effects does it produce?"

Reporter: "A variety of fruits and vegetables are in this shop and all of them brightly colored. My favorite vegetable is the cucumber, but thinking of agricultural chemicals, I worry about the effects on cucumbers. An agricultural ministry survey shows that cucumbers are vulnerable to diseases especially those grown in a greenhouse which have to be sprayed often. Without chemicals only ten percent of the cucumbers survive."

Reporter: "However, we found a farmer in Oyamacee Tochigi Prefecture who grows cucumbers without using agricultural chemicals. They use water which is not harmful to our health but which does destroy mold."

Farmer: "This machine separates water into alkaline ion oxidized water. We put salt in the water and it is resolved by electricity. At the negative pole you get alkaline water and at the positive pole you get oxidized acidic water. This is done instantly."

"This oxidized water kills germs that cause cucumber diseases. One cucumber plant will yield nearly 100 cucumbers. These plants are suffering from mildew. But on this plant which was treated with acidic oxidized water, the bacteria have been destroyed. It is surprising that the white part suffering from mildew came off due to the sterilizing power of the water. The difference is very clear between the one treated with acid oxidized water and

the other one. With oxidized water there is no resistance against mold or chemicals."

Cameraman Matsumoto, eating a cucumber treated with the water says: "If agricultural chemicals are used, I wouldn't want to eat it, but in this case, I decided to try it. Oh, it is fresh and delicious, it also smells good. We can eat these cucumbers with-out any worry even if they are uncooked."

Reporter: "Golf a favorite sport in Japan. On golf courses greens are produced using chemicals and this is causing problems. We conducted an investigation of agricultural chemicals used on golf courses in Chiba Prefecture two years ago and we found that an average of 2.4 tons of agricultural chemicals are used annually per eighteen hole golf courses, more than a 150 types of chemicals are used. Some kinds of agricultural chemicals remain in the soil for a long time, and in some cases they become a source of pollution."

This person says: "What I have picked up is ionized water it records a value of 2.6 pH. At Atsugi International Country Club, they have been trying to reduce the use of agricultural chemicals as much as possible by using strongly oxidized water. A lawn is infected by several kinds of germs, so lawns that are once beautiful can often die this way. If this happens on a golf course the value of the country club decreases. This difficult situation let to the idea of killing germs with strongly oxidized water created by electrolysis."

Akito Hirano: "Now we spray this strongly oxidized water once a week in warm weather, and when the temperature goes down we spray once or twice a month."

Reporter: "Why does this water kill the germs?"

Akito Hirano: "The germs which kill lawns can't live under a 3 pH level, given more strongly oxidized water they are destroyed. Furthermore, dissolved oxygen and dissolved chlorine will kill the germs."

Akito Hirano: "We are trying to cut agricultural chemical by 80 percent every year. In the near future we hope to dispense with all the agricultural chemicals by using this water."

Reporter: "Most pleased are the farmers who are freed from using agricultural chemicals. Look at this they work in light clothing, sneakers, aprons and jeans."

[on screen] Kazuko Akiyama, a farmerette, user of chemical free agriculture

Kazuko Akiyama: "Once I was so scared to work in a vinyl plastic hothouse, when I was pregnant, so I did my work just leaning in from outside, but now days we are safe."

Reporter: "We asked her to put on the working clothes she used in the days when they used chemicals."

Kazuko Akiyama: "I worked in this raincoat, rubber boots, gloves, sun visor and mask. It was hot and uncomfortable and that made the work even tougher."

Reporter: "Alkaline water produced from electrolysis is also utilized to grow crops."

Yuro Sasaki: "Alkaline water helps suck up nutrition from the soil as a result things grow bigger."

Hirotooshi Tamura Managing director of Yota Ba Kai co-operative: "At this time of the year farmers use agricultural chemicals once a week, but by introducing this method these farmers have not used chemicals at all so far, still delicious cucumbers are being produced. I am sure this method will be "THE" method for chemical free farming in the future."

"Because the water is highly acidic, you might be concerned about causing some bad effects, but according to the staffs experiments, the acid water will change into ordinary water in the soil."

Announcer: "We reported the story of the miraculous water in a three part story and while reporting we were startled by these wonders. The next report in the special feature about miracle water is coming up tomorrow."

4. Diabetes and Miracle Water

Announcer: "In earlier programs we looked at electrolyzed miracle water that has been used in place of medicines and agricultural chemicals and it has proved very effective."

"Today we have another report concerning this miracle water. We have followed a diabetes patient who faced the possibility of having to have his leg cut off, he recovered and was able to walk again.

We have more from NNN Cameraman Matsumoto."

The diabetic patient: "Because you took up my story on your TV program, my life was saved, I can make a fresh start thanks to you."

Reporter: "One and a half months ago, Mr. K. Abe 56, cut his right toe on a piece of glass. He left the hospital where he was staying, and came to Kyowa Hospital in Kobe two days before the scheduled operation to amputation his foot. He found this hospital through a TV camera man."

Mr. Abe says: "The doctor at the first hospital told me that they had to amputate my foot and the toe on my other foot, if I lost both, I wouldn't be able to work or walk so I left the hospital."

Reporter: "Twenty days ago he entered Kyowa Hospital. The condition of his feet is getting better day by day, at first they were terrible. The color of the cells was dark, most parts were pussy and smelled terrible, both feet were infected with gangrene."

Mr. Abe: "This is the photo at the time I was first diagnosed compared to the more healthy left foot, the bone melted and became thin, this was caused by poor blood circulation and diabetes. This was the way it looked."

Reporter: "Reportedly, there are 5 million diabetics in Japan. Of those over 40 years old, about 1 out of 10 people suffers from this disease. Early on you can control your calories and take insulin pills to treat the disease, but when you are seriously ill, you have to take insulin shots to control your blood level. Mr. Abe was labeled a seriously ill patient."

Doctor: "To control diabetes we use insulin, but to control a locally infected part we use acidic water only. We use no antibiotics. To treat feet medically developed water with a pH of 2.4 and 1100 millivolts of deoxidized potential is used. This deoxidized electric potential water is very effective to control local infection and granulation, but it is not perfect. So first, we want to control diabetes by dosing with lots of electrolytic resolved water every day. We think effective treatment of gangrene can be achieved through such an improvement in the patients constitution."

Reporter: "They say the treatment of diabetics is possible using electrolytic resolved water or alkaline ion water, both of which are available to be made

at home. Mr. Abe drinks five liters of water per day following the doctors directions. And he says he has been improving day by day."

Mr. Abe: "This water makes me feel light and I am in good shape."

Reporter: "What kind of water is this? I asked the hospital staff to analyze it."

Doctor: " Ordinary water is pH 7 and it's resolved potential is (plus) +330 millivolts. An alkaline solution of pure water and caustic soda is pH 8 and it's resolved potential is (plus) +200 millivolts.

Doctor: "A miracle water that Mr. Abe is taking is pH 8 and it's resolved potential is (minus) -238 millivolts. Is this water with a different electric potential have a good effect on Mr. Abe."

Reporter: "At last the great news Mr. Abe had desperately waited for was conveyed to him by Dr. Kawamura."

Mr. Abe asked: "It isn't necessary to cut of my foot, is it?"

Dr. Kawamura: "As things stand now, I don't think it will be necessary. Congratulations, your foot has been saved."

Mr. Abe: "Thank you, now I think I can work after being released from the hospital and I am looking forward to that. My leg would have been cut off, if it would have been two days later, it might have been hell, but now I will be able to work again after I get out of the hospital."

Dr. Hidemitsu Hayashi: "Diabetes is believed to be caused by insufficient secretions of insulin from beta cells in the pancreas. In modern medical science, an active enzyme called a free radical is said to be involved in insufficient secretions of insulin."

"In the human body there are neutrophils and t-cells fighting again viruses or malignant tumors. What is called active oxygen is fighting. After winning in the fight against a cancer, the enzyme which is called SOD will decompose residuals. But if there are too many residuals they stick to anything and damage cell membranes and nuclei because they are poisonous. It is said that diabetes is caused by this."

"The resolved water obtained by electrolysis extinguishes free radical active oxygen. They are released out of the body that is why Mr. Abe's diabetes and gangrene took a turn for the better."

Mr. Abe: "I used to take 16 units of insulin but they reduced it to 10 units, now. I used to take 1200 calories but now I take 1600. I feel just fine and as they give me more of it I feel better and better."

Reporter: "On the 45th day since Mr. Abe was admitted to the hospital, I happen to witness a scene, I doubted what I saw. Mr. Abe once thought about committing suicide because there was no chance he could save his leg, but I saw him leaving the hospital to go shopping with his sandals on."

Mr. Abe: "I think I am an exception that I didn't have my leg amputated, thought I suffer from diabetes I am surprised myself, over my recovery, it is really a miracle. I feel like I am having a dream when I walk down the street on my two legs, it's almost like floating in the air."

Announcer: "I was really surprised that a seriously diabetic patient recovered only using water."

"This concludes this segment on miracle water. We hope you enjoyed it. For further information about this water please contact the TV station NNN, please refrain from contacting the hospital just to get information."

5. Gangrene Cured by Strongly Oxidized Water

Announcer: "When diabetes becomes serious, a person's feet can become severely infected. This condition is called gangrene. Tonight we will report on a case in which a man whose doctor determined that his foot would be amputated because of gangrene caused by diabetes was cured by strongly oxidized water."

[on screen] Gangrene infected toes.

Reporter: "This patient was told that his foot had to be amputated due to a condition caused by diabetes. His toes were infected very badly and he was cured by soaking his foot in hyperoxidized water twice a day. At the same time, he drank more than five liters of alkaline water daily in about four months, his toes recovered, as you can see, and are normal just like those of a healthy person."

[on screen] Two pictures of the same patient's toes

Right: "Seven days after he was admitted to the hospital Left: "Four months after his discharge from the hospital showing healthy toes."

Reporter: "Mr. Akihiro Ito (58 years old) heard about this water on a TV program called "Kyo no dekgoto" (Today's Events). He left the hospital where he was staying and moved to Kyowa Hospital located in the suburbs of Kobe."

Reporter: "Where exactly were they going to amputate your leg?"

Mr. Ito: "About this area."

Dr. Kawamura, head of Kyowa Hospital: "This discolored part of the leg was completely damaged by very poor blood circulation."

Reporter: "Mr. Ito's condition was severe. It almost sent chills down my back. Diabetes is very scary. Mr. Ito went to the hospital because he had blisters caused by his shoes. There he was treated with vasodilators, antibiotics and disinfectants. Doctors did everything they could, but the condition of his foot did not improve at all and only worsened. Finally, he was told that his leg had to be amputated."

[on screen] Dotted line on Mr. Ito's leg showing the proposed place for amputation proposed by the first hospital.

Reporter: "How did Dr. Kawamura treat Mr. Ito's foot?"

[on screen] Dotted line on Mr. Ito's foot showing where his toes were amputated

Reporter: "At Kyowa Hospital, they cut off only the part where all the cells were already dead."

Reporter: "I visited Mr. Ito at Kyowa Hospital two weeks later."

Mr. Ito: "I feel OK. I was expecting my leg to be cut off below the knee, but it turned out that only my toes needed to be cut off, so I shouldn't feel too bad.

Reporter: "It looks quite pitiful, but Mr. Ito himself is not feeling bad at all."

Mr. Ito: "To begin with, all the swelling is gone."

Dr. Kawamura: "The ideal situation is when all the infected parts are completely healed and the muscle has a chance to rebuild, then we don't have to cut off any more than this, and we can place a skin graft on top of the wound. That is the best."

Reporter: "Except for insulin to control his blood sugar level, Mr. Ito does not use any other drugs at all. To restore his damaged blood vessels, he drinks about five liters of alkaline water daily. This water is created by the electrolysis of tap water using the home electrolysis unit."

[on screen] Mr. Ito drinking alkaline water.

Mr. Ito: "The heavy feeling in my body seems to have gone away, too."

Reporter: "For treatment of his foot, he is using strong hyperoxidized water at pH. 2.5. He soaks his foot in this water for 15 minutes twice a day, once in the morning and once in the afternoon."

Reporter: "I visited him in April and I was amazed to see how clean his foot was. It's hard to imagine how awful it looked before."

Mr. Ito: "See, even my toes are emerging."

Reporter: "Mr. Ito is now very light-hearted. He even jokes like this."

Mr. Ito: "I didn't use any drugs."

Reporter: "Dr. Kawamura talked about the skin graft."

Mr. Ito: "The skin just naturally grew over the wound."

Reporter: "By using only water, his skin and muscle regrew. It's amazing. Unbelievable. Now let us report on another patient."

[on screen] Another patient's foot with date (Oct 7, 1992)

Reporter: "As you can see, this is a pretty large area of infection caused by diabetes. By drinking alkaline water and soaking his foot in hyperoxidized water everyday, new muscles were rebuilt and skin naturally regrew. In about four months, the condition improved this much."

[on screen] Same patient's foot with date (Jan. 20, 1993)

[on screen] Dr. Kawamura

Reporter: "Another infection started at Mr. Ito's ankle and spread up to this area in the calf. It was caused by poor blood circulation. However, Mr. Ito is in good spirits."

Mr. Ito: "Once it starts to heal, it goes quickly. It's fun to watch it change."

Dr. Kameyama, Director of Dermatology at Kitazato Research Medical Center

Hospital: "If Mr. Ito's leg is really healing, this treatment is truly a surprise for us in dermatology."

Reporter: "Dr. Kameyama of Kitazato Research Medical Center Hospital visited Kyowa Hospital in May."

Dr. Kameyama: "We normally use vasodilators and muscle growth stimulants, but they don't work very well. Many patients still suffer despite these drugs. We want to try applying this water treatment by using not only hyperoxidized water but also alkaline water."

[on screen] Mr. Ito's leg

Reporter: "Mr. Ito left the hospital on July 2 and he is resting at home. It is the ninth month since he started water treatment."

Mr. Ito: "The second area of infection has been reduced."

Reporter: "Mr. Ito, isn't it nice to still have your leg?"

Mr. Ito: "Of course, it's better than becoming one-legged, or having no legs at all, like a ghost. Nothing is more wonderful than being able to walk using your own legs. They say that you can have an artificial leg, but it is different from your own leg."

[on screen] Home electrolysis unit

Reporter: "It is amazing that Mr. Ito's leg was cured to this extent by treatment with water. Being greatly encouraged by the progress, Mr. Ito increased the amount of alkaline water he drinks from 6 to 8 liters a day. Now he no longer needs to take insulin shots to control his blood sugar level."

Mr. Ito: "I started out taking 24 units of insulin a day, but now I don't have to take anything. No pills, nothing. My blood sugar level has stabilized

between 100 to 110. It's been the same for two weeks. I don't have any problem."

Reporter: "Mt. Ito is now walking up the stairs."

Mr. Ito: "I don't need a cane any more. I feel great. It's all because of the water. Thanks to the water."

Announcer A: "It's amazing."

Announcer B: "He had been told that his foot had to be amputated and now he can walk. An industrial electrolysis machine creates the strongly oxidized water that cures infections. Please note that the home unit cannot create this water."

6. MRSA (Methicillin Resistant Staphylococcus Aureus), Eradicated by Hyperoxidized Water

Announcer: "During a hospital stay, people can be endangered from exposure to MRSA (Methicillin Resistant Staphylococcus Aureus), which is a serious and growing problem. Antibiotics do not work on MRSA. Tonight, we will report on the use of hyperoxidized water made by electrolysis to eradicate MRSA."

[on screen] In a hospital hall way

Mr. Muramatsu: "Stop the cart, please. I have to check it."

Reporter: "Mr. Muramatsu, clinical inspection technician, checks the food cart for the existence of bacteria."

Mr. Muramatsu: "To my amazement, MRSA was found on the wheels of the food delivery cart. So, we are conducting a follow-up check, and we haven't seen the bacteria so far."

[on screen] MRSA Staphylococcus

Reporter: "MRSA is multiple resistant Staphylococcus aureus on which antibiotics do not work. These bacteria are very vigorous and multiply on shoe soles, inside the human nose and mouth and on the palms of the hand."

That's why they are checking the spread of the bacteria. When older people or those with weakened immune systems become infected with MRSA, it can cause pneumonia and heart palpitations. Since antibiotics do not work, some victims die. People who supervise elderly individuals at nursing homes are facing trouble. Hospitals and nursing homes are trying to find a way to deal with this situation."

[on screen] Electrolysis device

Reporter: "Hyperoxidized water created by electrolysis, which is tap water to which a small amount of salt is added and an electric current applied, was found to kill MRSA, and some hospitals have now acquired an electrolysis system."

Dr. Yoshiko Nakamura of Showa University: "We found that about 30 kinds of bacteria including MRSA and other A-4 types bacteria can be killed instantly by hyperoxidized water."

Reporter: "The disinfectant effect of this water has been confirmed from many different aspects."

Dr. Nakamura: "Both herpes and influenza viruses were killed instantly."

Reporter: "This machine was developed for medical use and is different from the one made for the home. This machine creates hyperoxidized water at a pH of 2.5 and an oxidation-reduction potential of 1100 millivolts."

[on screen] Graph (pH range of bacteria and viruses)

Reporter: "Why can this water kill viruses and bacteria? Let's look at this chart. The pink part shows the pH range in which viruses and bacteria live. When hyperoxidized water at pH 2.5 comes into contact with them, bacteria living in this range are instantly killed. Further, the oxidation reduction potential is an added element to kill a wider range of bacteria and viruses. The chlorine and oxygen in the water also help to kill the bacteria."

[on screen] Microscope

Reporter: "We want to see whether or not MRSA is really killed by this oxidized water. We are looking into a special microscope for examining water."

[on screen] Living MRSA

Reporter: "You can see small dots all across the screen. These are living MRSA. Now we put in the hyperoxidized water."

[on screen] Instantly killed MRSA

Reporter: "The moment the water comes into contact with MRSA the cell membrane is destroyed and the bacteria are killed instantly."

[on screen] Nurse, washing hands

Ms. Moriguchi, head nurse at Nara Prefectural Medical School Hospital: "This is a bucket of hyperoxidized water for washing hands. Before and after treating patients, we wash our hands in this water."

[on screen] Inside ICU of Nara Prefectural Medical School Hospital

Reporter: "Hyperoxidized water is made available at the bedside of each patient, and nurses wash their hands with it often. The nurses are happy about not having dry hands from constantly washing the old way."

[on screen] Dr. Miyamoto

Dr. Miyamoto: "We did have problems with MRSA in this hospital, including in the intensive care unit (ICU), but since we started to use this hyperoxidized water and to wash our hands with it, MRSA infections have definitely decreased. The water has also prevented the spread of MRSA."

[on screen] Bucket of water

Reporter: "What is this?"

Janitorial Woman: "This is hyperoxidized water."

Reporter: "She's using oxidized water to clean the hospital floor. Cultures taken here at Iida Hospital in Nagano Prefecture have shown that MRSA has been completely eradicated by the use of hyperoxidized water."

[on screen] Iida Hospital in Nagano

Reporter: "The hospital holds 540 beds, and 2000 people a day enter and leave the facility carrying MRSA. The bacteria became a serious problem, causing apprehension among hospital officials."

Dr. Muramatsu, head clinical inspection technician: "MRSA is not detected now because MRSA and other bacteria are instantly killed."

Reporter: "Let's look at this slide. On the left side is hyperoxidized water. On the right is sterilized, distilled water. No MRSA is present on the mop soaked in hyperoxidized water. This hospital thoroughly examined the properties of hyperoxidized water and confirmed its effectiveness in eradicating MRSA. Now this type of water is used to disinfect the entire hospital."

[on screen] Surgery room in Iida Hospital

Reporter: "This is Surgery Room No. 1 in the hospital being cleaned by hyperoxidized water."

Dr. Muramatsu: "If MRSA is carried into a surgery room, it can cause serious problems. We clean everything in the room with hyperoxidized water. The cultures taken have all been negative."

[on screen] Test tubes

Reporter: "Not only that, test tubes, dishes and toilets used by patients are washed with hyperoxidized water. Patients' sheets are soaked in hyperoxidized water for ten minutes prior to being mixed with other things and washed. This mixing doesn't cause any problem at all."

Dr. Ham, President of Iida Hospital: "In the beginning, I was a little skeptical about this water, but I found it very effective. The only problem is that the government doesn't acknowledge the use of this water for health insurance purposes. The Ministry of Health and Welfare needs to recognize this water as a kind of drug. This water should be used in every hospital in the country. It will be very effective in preventing the spread of MRSA inside hospitals."

Announcer A: "It is amazing, isn't it? If you use an antiseptic solution to wash your hands, your hands

get very dry. This water is really good news."

Announcer B: "Yes, indeed. The fact that you can effectively disinfect with this water without any side effects is wonderful. But the cost of using this water is not covered by health insurance."

Announcer A: "Also, we would like to remind you that you cannot create this hyperoxidized water with the home unit."

7. Wondrous Water Cures Atopic Dermatitis (Children's Atopic)

Announcer: "It was found that atopic dermatitis - whose cause is unknown can be cured by the water. We will report on the amazing effects of this wondrous water."

Announcer A: "Now, it is time for our Special Report. Atopic dermatitis is an illness accompanied by intense itchiness. Its cause is unknown. It was found that this difficult illness is cured by water."

Announcer B: "We have been following patients with atopic dermatitis for six months and will now report on the amazing effects of this wonder water."

Reporter: "Atopic dermatitis is painful, causing young children to cry all night because of the intense itchiness. They scratch so much that sometimes they wake up to their sheets stained with blood."

[on screen] Father and child

Father: "My son gets itchy in the middle of the night and cries and scratches his body intensely. It happens every night. We can hardly sleep. So, we are deprived of sleep all the time."

Reporter: "In order to suppress the severe inflammation, doctors use adrenocortical hormones, or steroids. Even if a patient recovers temporarily, the condition repeatedly comes back, and the long time use of large amounts of steroids causes a reduction in immunity, a lowering of the functions of the adrenal gland, cataract problems and other side effects. Recently, concerned parents of young patients have steered away from steroids. Now, this new water treatment has entered the spotlight many patients visit Akashi Hospital which is 5 minutes by car from Nishi Akashi Station of Shinkansen (Bullet Train)."

[on screen] Dr. Shinkai

Dr. Shinkai: "Recently many patients have turned away from steroids. They go to many different hospitals before finally ending up here."

[on screen] twins

Reporter: "Twin sisters Saki and Yu Matsubara visited Doctor Shinkai at Akashi Hospital. Their parents wanted them to be cured from atopic dermatitis without using steroids. Their bodies are red and covered with rashes."

[on screen] Dr. Shinkai and twins

Dr. Shinkai: "O.K., where do you want it next? How about your hands?"

Reporter: "For intense itchiness and inflammation, this strong hyperoxidized water of pH 2.6 which was especially developed for medical use is applied. And for curing atopic dermatitis from inside the body, patients drink alkaline water. Both types are created by electrolysis. You can create this water from an electrolyzer for home use."

[on screen] Twins, drinking high alkaline water

Dr. Shinkai: "Although I don't force my patients to drink more than they can, by merely drinking electrolyzed alkaline water everyday, the skin becomes really clean in about 3 to 4 months."

Reporter: "There is an unavoidable problem with this water treatment. When patients stop using steroids, they face withdrawal symptoms and the situation is rough for a while."

[on screen] Mr. Tomita

Reporter: "Mr. Tomita of Kyoto was told by Dr. Shinkai in detail about the withdrawal symptoms, so he was able to consent to the treatment of his one-year old son, Ryuki without hesitation."

[on screen] Ryuki

Reporter: "Look, the area around Ryuki's mouth used to be this bad, but now after five months of water treatment, it has gotten this clean."

[on screen] Left: While using steroids Right: Five months after beginning water treatment

Reporter: "None of the atopic dermatitis remains on his elbows or behind his knees. He now has his clean, transparent, infant skin back."

[on screen] Ryuki's grandfather

Grandfather: "It was really bad when the treatment first began. He was covered with blood. But the bleeding would stop when we'd wipe him with tissue paper soaked in that water we get from Akashi Hospital. I am just amazed that he was cured to this degree just by water."

[on screen] Bottles of high alkaline water

Reporter: "Akashi Hospital is sending electrolyzed alkaline and hyperoxidized water to patients at cost."

[on screen] Ryuki

Reporter: "Eleven months after he started water treatment, Ryuki was doing fine without any recurrence of the illness. He is now healthy enough to be able to eat eggs, which he had not been able to eat because they had previously been identified as allergens."

Mother: "Ryuki has a big appetite. He eats more than adults. He has a lot of energy now, is more active and has more facial expressions."

[on screen] Saki and Yu

Reporter: "It has been four months since Saki and Yu switched from steroids to water treatment. The redness has gradually subsided and the symptoms are improving. They have only mild itchiness."

Reporter: "Their mother purchased this equipment as soon as it was put on the market. This machine creates exactly the same highly disinfectant, hyperoxidized water as that created by the larger equipment for medical use. How much improvement can you see in their atopic dermatitis after treatment with these waters?"

Dr. Shinkai: "Since August, I have seen about 2000 new patients. I think that in about 4 months, 80-90% of them will be cured, and if those who take a little longer are included, almost everyone will be cured."

[on screen] Dr. Kameyama, Kitazato Medical Research Center Hospital

Reporter: "Experiments have been conducted to prove that electrolyzed alkaline water is effective in curing rash, too."

[on screen] Mouse

Dr. Kameyama: "Experiments were done in which DNFB (a benzene compound that causes a

rash) was applied to the right ears of two rats to see if any difference would be seen between the methods of treatment. As you can see, the rash on the right ear of the mouse that was given alkaline water to drink has clearly

gotten better compared to the rash on the mouse that was given only regular tap water."

[on screen] Saki and Yu

Reporter: "It has been 7 months since Saki and Yu started water treatment."

Doctor Shinkai: "Yes, their skin became so clean. These two girls were really in bad condition. The redness and itchiness were very severe. It would have been clear to anyone that their Condition was serious. Even so, their skin became this clean."

Mother: "Finally, in the last week or so, they stopped waking up in the middle of the night."

Reporter: "For the first time since the twins were born the Matsubara family welcomed in the new year without cries at night. There will be pictures in the album of twins with clean skin from now on."

Announcer A: "As you see, the hyperoxidized water does not have an immediate effect on atopic dermatitis. They say that you should expect to wait for about 6 months before you see the change."

Announcer B: "It may take some time before you see the change, but it is water you are taking during that time, so there are no side effects."

Announcer A: "Yes. And if you were on steroids prior to water treatment, they say that it will take three months longer. This water treatment is also effective on adult cases of atopic dermatitis.

We will report on this in the second report in this series."

8. Wondrous Water Cures Atopic Dermatitis (Adult Atopic)

Announcer A: "This is the second in a series of Special Reports on curing dermatitis by wonder water. Last week we broadcast a report on water treatment for a case of children's atopic dermatitis. We received a great response from the audience. Today, we will report on an adult case of atopic dermatitis."

Announcer B: "Recently, it is said that there are more cases of atopic dermatitis in adults than there are in children. Water treatment is also being

found to be greatly effective on adult patients. This is a report on patients who were observed for almost a year."

[on screen] Kenji Takahashi

Kenji: "It still itches."

Reporter: "You can't sleep at night, can you?"

Kenji: "No, not at all. I wake up every hour."

Reporter: "Atopic dermatitis is a battle against incurable itchiness. Kenji Takahashi has been suffering from rashes since he was a toddler. Recently, his symptoms suddenly grew worse and he visited Kitazato Research Medical Center Hospital in Saitama Prefecture."

Dr. Kameyama: "Kenji Takahashi, right? What bothers you?"

Kenji: "I have atopic dermatitis and it itches really bad."

Doctor: "Can you show it to me? Ah, it is bad, isn't it? It looks very itchy."

[on screen] Graph

Reporter: "Atopic dermatitis used to be considered a child's illness. However, two thirds of the cases are found in adults. Sometimes the adult symptoms are more severe than those of children."

Kenji' mother: "This is when he was three years old and he started to see a doctor. He had rashes on his cheeks and hands where the skin is soft."

Reporter: "Doctors use adrenocortical hormones, or steroids, to treat atopic dermatitis."

Mother: "It becomes much better for a while with this drug, but if you stop using it, the rash becomes worse than before."

Reporter: "Worried about side effects, Kenji stopped using steroids a week ago on his own. In reaction, his itchiness increased and the symptoms worsened. Urged by Dr. Kameyama, he decided to go through the two kinds of water treatment."

[on screen] hyperoxidized water at a pH of 2.5

Reporter: "For severe inflammation, he uses this strong hyperoxidized water, which has been developed for medical use."

Dr. Kameyama: "I want you to drink three liters of this water everyday, five liters if you can."

Reporter: "To treat atopic dermatitis from inside the body, he drinks a second type of water, electrolyzed alkaline water. This water can be produced by an electrolyzing machine for home use. Kenji, eager to be cured, started in drinking five liters of alkaline water a day."

Reporter: "In this positive environment, Kenji has shown great improvement."

[on screen] Kenji's skin after 11 days of water treatment

Dr. Kameyama: "The biggest difference I can see is that the redness all over his body has subsided. I'm amazed myself."

Reporter: "Twenty days after Kenji started the water treatment, a more amazing thing happened."

[on screen] Left: Kenji's skin at the time of hospitalization Right: 20 days later

Doctors, nurses, Kenji: "No rash, nothing at all."

Reporter: "Doctors and nurses alike are completely amazed. Needless to say, Kenji went home in high spirits."

Reporter: "However, after going back to a different environment, that of the work place, pigmentation occurred, darkening his skin. One reason for this regression was stress, which shows how difficult it is to cure atopic dermatitis."

Reporter: "Recently, due to fear of side effects, the number of people who have stopped using steroids has been increasing. This can be harmful."

[on screen] Tomomi Aii

Reporter: "Tomomi Aii suffered from a serious case of a topic dermatitis and was hospitalized four times during her junior high and senior high years. The steroids stopped working and, under her doctor' s guidance, she started to gradually cut down on them and switched over to water treatment."

Reporter: "Even so, withdrawal symptoms appeared. Her face became swollen and she suffered from high fever. Cutting steroids on your own without a doctor's guidance can more than you can handle. It is important that you see a physician."

[on screen] Tomomi, 4 months after water treatment

Reporter: "Since switching to water treatment, Tomomi has been improving. Her face was always swollen when she was using steroids. But this is her face after four months of water treatment."

[on screen] Tomomi, 6 months after water treatment

Reporter: "After six months, her skin greatly improved and the itchiness subsided. Her arms also show great improvement."

Reporter: "How has the itchiness changed now that you've started water treatment compared to when you used steroids?"

Tomomi: "It has absolutely decreased."

[on screen] Mr, Kondo (62 years old)

Reporter: "Who could believe that Mr. Kondo who lives in Kyoto, suffered from atopic dermatitis and its side effects for 30 years? Only nine months ago, he had severe rash even on his abdomen. Since then, he has been drinking alkaline water and now the skin is this clean. His hands looked like an elephant's skin, but now they also look totally different. His feet, once swollen from the use of steroids, are looking perfectly normal."

Mr. Kondo: "I don't think it will recur. I hope everyone who suffers from atopic dermatitis will be cured by this water."

[on screen] Kenji

Reporter: "Kenji Takahashi, who had skin discoloration or pigmentation, has continued to drink electrolyzed alkaline water. He also purchased an electrolyzer that creates strong hyperoxidized water, and is treating himself. His skin color is coming back to normal little by little."

Reporter: "How has the itchiness changed compared to when you used steroids?"

Kenji: "There is none now."

Reporter: "Kenji says that people don't stare at him like they used to."

Announcer A: "Even those who had suffered for thirty years were cured, weren't they?"

Announcer B: "Yes. There is one thing we have to be careful about. It was reported that when those who have been using steroids for many years suddenly stop, their condition might worsen due to withdrawal symptoms, but if they persevere through that period, about six months in general, their skin condition will improve. Please see a physician for this water treatment."

Announcer A: "The hospital that we introduced today is Kitazato Research Medical Center Hospital at Kitazato City, Saitama Prefecture."

9. The Key is Water for Agriculture

Announcer: "Today for our Special Report, we will visit an orchard in Yamanashi Prefecture where cherries and peaches are produced without using agricultural chemicals. The key is water."

Reporter: "One step into the commercial district here and we see fruits, the taste of autumn, displayed in abundance. Peaches, grapes and pears- in vivid color and perfect shapes - enhances one's appetite. They say that it is necessary to use agricultural chemicals and fertilizers to grow such perfect looking fruits. They know, of course, that bugs and insects don't want to miss out on the delicious food that human beings eat. They bite off the leaves and go inside the fruits."

[on screen] Cherries infected with mildew

Report: "Farmers get into trouble because of mildew. The commercial value of their crops drop and their income decreases. Therefore, farmers cannot help using agricultural chemicals like pesticides. Cherries need to be sprayed with agricultural chemicals six to seven times before they are harvested. For peaches, that number is 10 to 15 times, and for grapes, 16 times. The dangerous effects of agricultural chemicals have become a concern."

[on screen] Highway

Reporter: "However, after hearing about growing fruits without using such agricultural chemicals, I drove to Shirane-cho, Yamanashi Prefecture where

a scene of orchards of cherries and peaches and hills of grape vines spread across the landscape before me."

[on screen] Mr. Tezuka

Reporter: "This is Mr. Yasuhiro Tezuka who is taking up the challenge of growing fruits without chemicals. He is driving a strange vehicle to the Agricultural Coop."

Mr. Tezuka: "This machine makes high alkaline water and hyperoxidized water by electrolysis."

Reporter: "Adding a small amount of salt to tap water and initiating the process of electrolysis, you can create an unlimited amount of strongly disinfectant, hyperoxidized water. Mr. Tezuka came to fetch this water."

Mr. Tezuka: "Today, I'm planning to eliminate gray mildew with this water."

Reporter: "Mr. Tezuka is well known in Shirane-cho as a specialist with a green thumb for growing fruit. For the past thirty years, he has been concerned with the problem of agricultural chemicals. He wondered if he could grow safe fruits that would not harm the human body. His dream came true with this water."

Mr. Tezuka: "This has a pH of 2.6, so you can disinfect with this water."

Reporter: "Will bacteria actually be killed? Hyperoxidized water was sprayed on some infected leaves."

[on screen] Leaf

Reporter: "Did you see that? Let us look at it again in slow motion. The area of the leaf where the water made contact is the only area without bacteria. In the mid-June of this year, the cherries ripened, a scene which had been Mr. Tezuka's dream and many people who heard about it came to visit him."

[on screen] Woman

Woman: "This is my first cherry picking. It tastes just wonderful. Sweet!"

[on screen] Left: Cherries produced in other prefectures Right: Mr. Tenrka's cherries.

Reporter: "Compared with cherries grown in other prefectures, both the size of the fruit and the price are better. Mr. Tezuka's cherries also taste better. Mr. Tezuka operates a 4000 tsubo (about two acres) orchard where he has 180 cherry trees, 110 peach trees and 50 grape vines. Although he realized that he could disinfect his fruit trees with this safe and harmless water, it was not easy for him to make up his mind to use it."

Mr. Tezuka: "I was not 100% sure that I could succeed. I have to make living, you know. I was worried. I spent many sleepless nights."

Reporter: "In the switch from agricultural chemicals to harmless water, how did Mr. Tezuka's farming change?"

Reporter: "First, his attire changed. When using agricultural chemicals, he used to protect his face with a towel over a protective mask, wear long boots, a thick raincoat and gloves, and a hat. Now he works in his regular working clothes."

"He adds a large amount of organic fertilizer and leaves plenty of space in between the plants. He sprays hyperoxidized water up from the underside, aiming to clean out bacteria and insects on the backs of the leaves. He uses both Chinese herbs and hyperoxidized water for eradicating insects."

Mr. Tezuka: "I use Chinese herbs to distract the bugs, to get them to go away."

Reporter: "At last, we have discovered the secret of growing perfect fruit!"

Mr. Tezuka: "This operation inserts alkaline water into the soil. By doing this I intend to grow thick, strong leaves."

Reporter: "Trees that do not receive alkaline water are more infected with mites."

Reporter: "We tested the sweetness of the fruits."

[on screen] "Sweetness measuring device, showing 15.4."

Man: "Wow, this is amazing."

Reporter: "Mr. Tezuka's cherries are rated excellent. How about his grapes? They measure 23.3. Intensely sweet grapes were grown!"

Mr. Nakagome, JA Nishino Agricultural Coop: "Mr. Tezuka grows cherries, peaches and grapes without using agricultural chemicals. Here are the test results of his fruits tested for residues of agricultural chemicals by the Sanitation & Pollution Research Center. They show zero chemical residue."

Mr. Hasebe, Head of JA Nishino Agricultural Coop: "My hope is that our entire area will be able to grow fruits without chemicals."

Reporter: "Mr. Tezuka who realized his dream of growing fruits without using chemicals is now enthusiastic about his new idea to help increase the number of growers like him."

Announcer A: "This water is very effective. Unlike agricultural chemicals, it leaves no residues, so it appears to be very good for the environment."

Announcer B: "Some people are worried that since it is hyperoxidized water, it could have the same effects as acid rain. This water is said to revert to regular water once it contacts the ground."

10. Stomach and Duodenal Ulcers Treated with Hyperoxidized Water

Announcer A: "It is time for our Special Report. Have you ever heard of a kind of bacteria called Helicobacter pylori? It was long an established theory that the cause of stomach and duodenal ulcers, both of which tend to be seen in Japanese people, were caused by stress and excessive gastrointestinal acid. However, this pylori bacteria has been recently identified as the cause."

Announcer B: "In Japan we are very familiar with the name pylori. What naughty things are they doing inside the stomach?"

[on screen] Pylori bacteria

Reporter: "Have you ever seen this bacteria through an electron microscope? They have several tail-like flagelli and are called Helicobacter pylori. Surprisingly, these bacteria have been found to cause both stomach and duodenal ulcers."

[on screen] Dr. Koei, Tokyo Women's Medical University

Dr. Koei: "Stomach and duodenal ulcers have been thought to be caused by stress or strong acidic conditions in the stomach. Also, drugs, cigarettes, and alcohol that stimulate the secretion of acid have been implicated. However, about ten years ago an organism called *Helicobacter pylori* was discovered inside the stomach by an Australian scientist. Research done by scientists in the United States and Europe subsequently confirmed that these bacteria are the cause of stomach ulcers."

Reporter: "The Japanese Gastrointestinal Society has begun to study these bacteria. Their results indicate that the bacteria were found in 80% of stomach ulcers and 85 - 90% of duodenal ulcers. But how were these *Helicobacter* able to live in the strong acidic fluids of the stomach that range from pH 1 to 3?"

Dr. Koei: "One feature of *Helicobacter* is that it has an enzyme called urease. Urease dissolves uric acid in the lining of the stomach and creates ammonia."

Reporter: "This ammonia neutralizes the strong acid in our digestive organs and changes the environment, enabling the bacteria to live. The cellular toxins from *pylori* and ammonia that these bacteria create damage membranes in the body.

These agents together with free radicals created by factors in the immune system create ulcers. You would think antibiotics would kill the bacteria, but it is not that simple."

Dr. Koei: "If you overuse antibiotics, the danger is that antibiotic resistant strains of *Helicobacter pylori* might emerge."

Reporter: "Doctors say that they don't want to repeat what happened with MRSA."

Dr. Koei: "We have to find out how we can kill *Helicobacter* without creating resistant bacteria."

[on screen] Functional Water Symposium

Reporter: "In the midst of trial and error experiments to find out how to eradicate *Helicobacter*, one amazing treatment for ulcers emerged and was publicly presented at the Functional Water Symposium held last year. It was reported that stomach and duodenal ulcers were significantly reduced when they were washed with highly disinfectant, hyperoxidized water."

Dr. Hamahata, Hamahata Clinic: "A first stage ulcer was identified through an endoscope. This is a photo taken seven days after water treatment. The size of the ulcer has been reduced."

Reporter: "We are visiting Hamahata Clinic, located two hours from Kagoshima Airport."

Dr. Hamahata: "Now we are in your esophagus, O.K? Now I'm looking at your duodenum."

[on screen] Series of photos showing different stages of cure for ulcers

Reporter: "Looking at a model of the process for curing ulcers by drugs, you can see improvement about every two weeks and, at the S1 stage, it has entered the range of cure."

Doctor: "I'm looking at the ulcer right now. It's a lot better."

[on screen] Left: Ulcer at the time of initial diagnosis Right: One month later

Reporter: "His ulcer was this bad a month ago, but now the ulcer is small."

[on screen] Dr. Hamahata

Dr. Hamahata: "Why is hyperoxidized water good for treating ulcers? One reason is that ulcers are thought to be caused by bacteria called *Helicobacter pylori*.

[on screen] *Helicobacter pylori*

Reporter: "The doctor is using hyperoxidized water with a pH of 2.5 and a redox potential of 1100 millivolt. This water is inserted by tube to rinse the ulcer and affected areas several times. After every washing, the water is sucked out. Finally, the ulcer is rinsed with weak alkaline water created by electrolysis. Are the *Helicobacter* killed?"

[on screen] Left: Living *Helicobacter pylori* Right: Dead *Helicobacter pylori*

Reporter: "When you look at the bacteria treated with the hyperoxidized water through an electron microscope, it is clear that they are dead."

Dr. Hamahata: " In addition to conventional ulcer treatment, we used hyperoxidized water to wash the ulcer. My impression is that this patient

would be cured faster than one that has only undergone conventional treatment."

Reporter: "I was shown the results."

Dr. Hamahata: "This is a case involving an 81 year old woman. She visited us complaining of stomachache. A large ulcer was found in this area in the duodenum, and the bleeding has just stopped. We treated the ulcer with hyperoxidized water. A week later, the large ulcer became this small."

"This is a case in which a 69 year old man who suffered from a liver ailment was hospitalized. He also had a large duodenal ulcer which was spreading deeper into the organ. This is a week after treatment with hyperoxidized water. You can see that the ulcer has been closed. This dramatic cure occurred in just one week."

Reporter: "This presentation of hyperoxidized water treatment made a strong impression on those attending the Functional Water Symposium."

[on screen] Man in audience at the symposium

Man: "I think this is a very practical use of the water and the treatment was well performed."

[on screen] Home electrolysis unit

Reporter: "In this hospital, electrolyzed alkaline water is also used. How many glasses of water do you drink each day?"

Patient (old lady): "I drink many glasses. My stomach is doing better. I could hardly eat at all before I came here. Even rice porridge didn't taste good. But now I have my appetite back. Thanks to the doctors, I feel better now."

Reporter: "Compared to conventional drug treatment, the hyperoxidized water treatment for ulcers has a short history, and this is the only hospital where the water treatment for ulcers is performed. Patients say that they are happy with it and that they seem to be cured faster."

Announcer A: "You would think that it would be good to just drink this hyperoxidized water, wouldn't you? But they say that you cannot eliminate pylori bacteria in the stomach that way."

11. Hyperoxidized Water Effective as a Disinfectant

Announcer: "Time for the Special Report hour. The endoscope is an indispensable piece of medical equipment for internal examination of the stomach and duodenum. Since these invisible bacteria attach to the internal parts of human bodies, great care has to be taken to clean and disinfect the endoscopes. Conventionally, disinfectant chemicals are used to sterilize the endoscopes, but recent attention has focused on water - hyperoxidized water created by electrolysis. We have been following stories that reveal how effective this water is as a disinfectant."

Dr. Hamahata, Hamahata Clinic: "I'm looking at the ulcer, it looks much better than before."

Reporter: "Endoscopes are indispensable for discovering the infected area in the digestive system as well as for examining the ailment."

Reporter: "There has always been a risk that any bacteria that live inside the patient's body, including *Helicobacter pylori*, which has recently been in the news for causing stomach and duodenal ulcers, can attach themselves to the endoscope during use. Therefore, extreme care must be taken in disinfecting the equipment after each use."

[on screen] 2% solution of glutaraldehyde

Dr. Sakurai: "Generally, endoscopes are disinfected in this yellow green liquid, a 2% solution of glutaraldehyde. It is the most powerful disinfectant, killing a wide range of bacteria and viruses including *Helicobacter pylori*, hepatitis B virus and AIDS virus."

Dr. Sakurai, Endoscope Center at Kanto Teishin Hospital: "Glutaraldehyde is recommended by the Endoscope Society for disinfecting endoscopes. They have to be soaked in this solution more than twenty minutes at a time."

Reporter: "There are two problems with this chemical. The first is that, in a larger hospital where many patients are examined daily, it is too time consuming. Secondly, it is highly toxic and classified as a strong poison."

Dr. Sakurai: "Residue of this chemical on endoscopes is cause for some worry. It is also expensive. Another worry is that the use of this chemical can cause skin inflammation or allergic reactions in our staff."

[on screen] Electrolysis unit

Reporter: "At the center of attention is water created by adding a small amount of salt to tap water and applying an electric current. It has the same disinfectant power as glutaraldehyde, except that it is faster and non-toxic. Increasingly, hospitals are using this water to disinfect endoscopes."

[on screen] Endoscope soaked in hyperoxidized water

Nurse: "After we use the endoscope, air is forced out in a container of hyperoxidized water, pushing out materials attached inside the tube, then hyperoxidized water is drawn back through."

Reporter: "Having developed a good understanding of the properties of both alkaline and hyperoxidized water, Doctor of Hamahata Clinic in Kagoshima Prefecture utilizes them well, taking advantage of the benefits of each."

Dr. Hamahata: "hyperoxidized water is put through the tip and the extractor of the endoscope."

Reporter: "Bacteria are often seen on this tip and extractor area."

Dr. Hamahata: "Then we wash it with high alkaline water that dissolves protein, blood and stomach fluids. Then we soak it in hyperoxidized water. There is ample data to support the fact that hyperoxidized water kills almost any kind of bacteria or virus. It has immediate disinfectant capabilities."

Reporter: "Finally, they wash the unit with tap water. The entire cleaning time takes only about five minutes. The disinfectant property of this water was reported at the Functional Water Symposium held last year."

Doctor: "We took a bacteria culture from the tip of the endoscope and the extractor. No bacteria were seen."

[on screen] Patient being examined with endoscope

Dr. Sakurai: "You feel something large is coming inside of you. Now it is bumping into you a bit."

Reporter: "At Kanto Teishin Hospital, eight minutes walk from Gotanda Station, Tokyo, they started using this hyperoxidized water for cleaning endoscopes three years ago."

Dr. Sakurai: "We examine as many as 40 patients a day, so the more time we use to clean endoscopes, the less efficient we are. We conducted

research with other doctors to find the most time-efficient and safe way to clean them."

Reporter: "When word got out about this disinfectant water, the first person in medical field to put together a research team to test it was Dr. Okada, Director of Clinical Examinations."

Dr. Okada: "The director of the Endoscope Department suggested that we look into using this water to clean endoscopes. We experimented with 10 ml., 30 ml. and 50 ml. of hyperoxidized water to be drawn through the endoscopes. We found that with 50 ml, of this water, the bacterial disinfectant rate is the highest. It is wonderful to be able to use this water to disinfect completely."

Reporter: "They showed me the current disinfecting process. After its use, the endoscope is covered with filth and bacteria. First, it is washed with tap water and the extractor is removed from the endoscope and soaked in strong hyperoxidized water."

[on screen] Brushing inside the extractor channel

Dr. Sakurai: "The extractor is set aside to soak. It is also important to clean inside the extractor channel with a brush. Blood, stomach fluids, and so forth are scraped off from inside it in this way as far as possible."

Reporter: "The whole thing is soaked in hyperoxidized water for ten seconds, then this water is injected into the channel and 50 cc of this hyperoxidized water is drawn back through."

Dr. Sakurai: "Hyperoxidized water is being drawn into the extractor channel for disinfecting. A culture shows zero bacteria are present."

Reporter: "Oh, zero."

[on screen] Helicobacter pylori

Dr. Okada: "We also took a bacterial culture to search for the presence Helicobacter pylori and the result was that this bacteria was completely eradicated by this water. As for the side effects of hyperoxidized water, we think that it is completely harmless."

[on screen] Electrolysis unit specially made for Endoscope Center

Reporter: "Dr. Sakurai and his staff at the Endoscope Center wrote a report for a medical journal that declared that using hyperoxidized water for cleaning endoscopes is an easy-to-handle, effective, and fast method for disinfecting. They also noted that the wear and tear on the equipment is less than with conventional sterilization and that it is the most appropriate method for clinical examinations that are conducted on a daily basis."

Reporter: "During these times when the number of powerful enemies such as Helicobacter pylori, hepatitis B and AIDS virus has increased, it was necessary to find the perfect way to disinfect endoscope"

Announcer A: "From the point of view of the patient, we would like a safe and sure method to be available, especially since bacteria and viruses are invisible to the naked eye."

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12. Sterilization of Dental Equipment to Prevent Infections

Announcer A: "It's time for our Special Report. They say that in our mouths there are about 80 kinds of bacteria. When your teeth are treated, your blood vessels and gums can be damaged, raising the danger of infection from the hepatitis virus."

Announcer B: "The key to preventing such infection is sterilization of the dental equipment. The power of disinfectant water created by electrolysis is now being studied."

[on screen] Many kinds of bacteria seen through a microscope

Reporter: "You are watching various kinds of bacteria through a microscope. Are these bacteria from ditch water, or from someone's kitchen? Neither. They are in fact bacteria from the mouth that live in small cracks between our teeth. In our mouth, there are about eighty kinds of bacteria, including Tricomonas candida and MRSA against which even antibiotics do not work any more."

[on screen] Air turbine

Dr. Kashiwada: "This is a heated air turbine. It sounds like this and water comes out from here."

[on screen] Jikei Dental Clinic, Tokyo

Reporter: "When you have an intense toothache, the place you run to is the dentist's office. There, without exception, your will be taken care of by this air turbine. It rotates 500,000 times a minute with compressed air, scraping away at your tooth. When the instrument is employed, water is used to prevent vibration and friction from heat. The trouble is, when the turbine is stopped, it sucks in water."

[on screen] Illustration depicting reverse flow of air turbine

Dr. Kashiwada: "Many kinds of turbines with an attachment to prevent this reverse flow have been brought out on the market lately. When a turbine is stopped, water gets sucked back in along with blood and other things from the patient's mouth."

Reporter: "Are AIDS or hepatitis viruses hiding in this blood?"

Dentist: "It can be very dangerous. So, dentists disinfect the turbine after every use."

Reporter: "Disinfecting a turbine takes time, money and cause wear on the instrument. There is yet another problem in handling an air turbine."

Dentist: "When water is splashed into the patient's mouth, water splashes out."

Reporter: "We experimented with water using red dye to see how far the water splashed."

[on screen] Water splashing experiment with air turbine

Dentist: "The water that splashes off the teeth is mixed with bacteria, blood and saliva. So, it becomes very unsanitary."

Reporter: "There are many bacteria living in our mouths. Not only do the germs splash all over the dental equipment, endangering other patients, but they can infect the staff as well."

Reporter: "The staff could develop an infection, huh?"

Dentist: "Yes, we must be careful."

Reporter: "This office has a side vacuum system now to prevent the splashing of water. It's good equipment, but it is not yet in common use."

Dr. Kashiwada: "In dentistry, we deal with many kinds of bacteria and it has been very difficult to kill them all. But, now we can use a superbly effective disinfectant called hyperoxidized water."

Reporter: "This is the equipment that creates the hyperoxidized water. By adding a small amount of salt to tap water and then applying electrolysis, a powerfully disinfectant water is created."

[on screen] Documentation

Dr, Kashiwada: ""Hyperoxidized water has been studied at universities and research institutes. We gathered the available information and created this chart."

[on screen] Chart

Reporter: "Crosses indicate no disinfecting ability, triangles indicate not effective all the time, and circle indicate effectiveness."

Dr. Kashiwada: "The results show that the hyperoxidized water is very effective in eradicating viruses such as AIDS and hepatitis B. It can be said that strong hyperoxidized water has the same or better disinfectant effectiveness as conventional drugs."

Reporter: "Dr. Kashiwada uses the disinfectant properties of this water to sterilize the air turbine."

Dr. Kashiwada: "The air turbine becomes filthy after use. First, we wipe it off with a towel that is soaked with strong hyperoxidized water. Then the turbine is turned on to push out unclean water from inside. Right before the turbine stops, it is put into hyperoxidized water. In this way, hyperoxidized water is sucked back into the tube, disinfecting the inside of the turbine."

Reporter: "After that, air is bubbled out from the turbine, and finally it is wiped again by a sterilized towel."

Reporter: "Research is being conducted to confirm the effectiveness of hyperoxidized water in preventing in-clinic infections caused by splashing when using an air turbine. The amazing thing is that some dentists now have abandoned conventional sterilization equipment that use ultra sonic waves, heat or gas."

Dr. Kashiwada: "Conventional sterilization has never been perfect. The disinfectant effects of strong hyperoxidized water shortens sterilization time

drastically, and we can be sure of its effectiveness. It makes me wonder if it could be an epoch-making method."

Reporter: "There is more to this."

Dr. Kashiwada: "We no longer use any conventional sterilization here. Everything has been replaced by this water."

Reporter: "When administering Novocane, the tooth is now splashed with hyperoxidized water. It should be noted that cleaning the inside of the mouth involves dousing it with plenty of hyperoxidized water, then all the bacteria die just like this." [on screen]

[on screen] Dr. Okamura, dental clinic

Dr. Okamura: "We have just extracted a wisdom tooth at the back of the jaw. Can you see that there is very little bleeding?"

Reporter: "Dr. Okamura started to pay attention to hyperoxidized water three years ago. He purchased a small unit and is using the hyperoxidized water regularly."

Dr. Okamura: "We have found that it is very effective in accelerating the healing of the surgical wound and in arresting the bleeding. It makes it easier to perform surgery."

Reporter: "It was surprising to see that they were using an IV bag for the hyperoxidized water. It is easier to carry them around in this way. The hospital is happy not to have to invest in more equipment."

Reporter: "What happens if you accidentally drink this hyperoxidized water? Doesn't it cause any problem if this water gets into the eyes? We flew to Kyushu to visit the Chemical Inspection Association which tested the toxicity of this hyperoxidized water."

Mr. Imatanaka: "To see if it was toxic when accidentally ingested, we first conducted acute toxicity tests. Absolutely no toxicity was detected. Then we test it on a rabbit to see if contact with the eye would cause irritability. Nothing unusual was seen in the rabbit's eye."

Reporter: "Powerful disinfectant, hyperoxidized water -- it is non-toxic and can suppress bleeding. It is expected that from now on it will be indispensable in dentistry."

13. Organic Agricultural Method for Safer & More Delicious Produce

Announcer A: "It is time for the Special Report. Vegetables consumed daily, such as cucumbers and tomatoes are, in fact, grown with a large amount of agricultural chemicals -- to the extent that you could say they are soaked in chemicals. These chemicals are also linked to soil and water contamination,"

Announcer B: "Yes. Because of that, farmers are taking another look at sustainable agriculture. It is an agricultural method that uses organic fertilizer like chicken and cow manure and less chemical fertilizers. Water use is also a key to this method of agriculture. Let's take a look."

Mr. Kamon, Tokyo Wholesale Market: "Sweet!!"

Ms. Torisu, food researcher: "They're so fresh. It's the taste of first love! It's delicious!"

Reporter: "Both of these visiting food specialists are extremely impressed with the deliciousness of these strawberries. On this farm, they harvest 250 boxes a day. What grabs your attention the most is the smiting faces of the farmers."

Mr. Fukumoto: "I want to grow even better ones next year."

Reporter: "This is the Aso area in Kumamoto Prefecture, a vast open area, 128 km in circumference. It has been chosen repeatedly as one of Japan's top100 areas for drinking water. Underground water gushes up from the Aso Mountains. It is a place of world-class scenic beauty."

"Not wanting to contaminate any more of this environment, the farmers here want to grow safer and more delicious agricultural produce. These farmers, who live in and around six towns in the southern Aso area, are taking up the challenge of a newly established organic agricultural method. We have followed them for the last six months."

Reporter: "What are you spraying?"

Mr. Matsuda: "This is restructured water."

Reporter: "Is it completely harmless?"

Farmer: "Yes, it is."

Reporter: "How are the prospects for this year's harvest?"

Farmer: "Looks good so far. Because we use restructured water, we have cut down on the use of insecticides and chemical fertilizers by about one third now."

Reporter: "Mr. Matsuda has 37 years of experience in agriculture and is an agricultural instructor for Kumamoto Prefecture. He looks totally content with his tomatoes after the drastic decrease in the use of agricultural chemicals. Success with tomatoes have been rare in recent years."

Mr. Matsuda: "I had a lot of damage from insects last year."

[on screen] A green caterpillar in a tomato

Reporter: "He had a lot of trouble with green caterpillars that year when he didn't use restructured water."

Mr. Matsuda: "If even one green caterpillar gets into the crop, the tomatoes will be spoiled. Even with stronger agricultural chemicals, these bugs don't die."

Reporter: "He even purchased a robot to spray the chemicals for fear of losing his income."

Mr. Matsuda: "Every time you use agricultural chemicals on the field, you are covered by chemicals from head to toe, so I resolutely bought a robot. I used it twice or so last year. But, because I used restructured water this year, there were not very many bugs and the robot has been kept in storage."

Reporter : "There aren't any blighted crops in this field at all, are there?"

Mr. Matsuda: "No, but there were other areas that were said to be totally destroyed."

Reporter: "I visited a greenhouse near Mr. Matsuda's farm. I was completely amazed to see a pile of dead tomatoes that had wilted and completely lost their commercial value. These tomato vines had received numerous applications of agricultural chemicals."

Farmer: "These tomatoes were grown in a greenhouse in the middle of the hot summer. When harvest time finally came, they wilted. It was too devastating to cry over."

Reporter: "However, Mr. Matsuda's tomatoes look great. We visited another farmer that grows tomatoes in the same way as Mr. Matsuda does."

Mrs. Kochi: "Our tomatoes are shiny and have a good shape. As many as 60% of our tomatoes were rated extra superior."

Reporter: "Here, again, good news came to my ears."

Woman: "We cultivated the soil with Thomas Orga Bacteria and sprayed plants with a mix of tap water and restructured water at a ratio of 500:1. Previously, we had problems with wilt disease and black leaf spot, but not any more."

Reporter: "What are these things called Thomas Orga Bacteria and restructured water that are so greatly beneficial to farmers? We decided to investigate."

Mr. Goto, Thomas Research Center of Japan: "This is Thomas Orga. Bacteria, originally created by Dr. Thomas of the United States."

Reporter: "One gram of this black powder contains two to three billion beneficial bacteria of 40 different kinds. You add rice bran and oil cake to it, mix in chicken and cow manure and saw dust, then rotate it. After 45 days, the mix becomes mature compost."

Mr. Soda, Thomas Research Center of Japan: "Our goal is to bring our soil back to its original state."

[on screen] House in which Dr. Kitazato, a famous bacteriologist, was born

Reporter: "Oguni-cho is the birthplace of Dr. Shibusaburo Kitazato. The JA Compost Center, which ran deficits over the past few years, was revived by the introduction of this bacteria. Was there some kind of karma involved here?"

Mr. Hirose, Restructured Water Research Center: "Restructured water is made by adding a small amount of organic matter to tap water, thereby raising the energy potential of the water."

[on screen] Three plants in different soil mixes

Left: 80% sterile soil, 10% organic compost manufactured by another company

Center: 65% sterile soil, 30 % same organic compost, 5% Thomas compost

Right: 80% sterile soil, 20 % Thomas compost

Reporter: "Does it really make a difference?"

Left: 80% sterile soil, 10% organic compost manufactured by another company. Center: 65% sterile soil, 30 % same organic compost, 5% Thomas compost. Right: 80% sterile soil, 20 % Thomas compost.

Reporter: "The same amount of restructured water was added to these soils. The results show significant differences in the growth of the leaves as well as in the development of the root systems."

[on screen] Two plants grown with the same amount of Thomas compost:

Left: Restructured water was applied twice. Right: Restructured water was applied five times.

Reporter: "Here are two plants grown with the same amount of Thomas compost and watered with restructured water twice (left) and five times (right) over a 20 day period. Great differences are seen in the amount of leaf growth and in the development of the root systems."

Ms. Torisu: "In order to protect our lives, we desire fresh and healthy food that we can consume without worry."

Mr. Kamon: "Being tasty and cheap is not enough in today's market."

Reporter: "Why are conventional agricultural methods demanding so much reflection at a meeting of consumers, producers, distributors and agricultural coop members?"

Reporter: "Another factor in agricultural produce is scavenger water."

Professor Esatoguchi, Nakakyushu Junior College: "The word scavenger is not familiar to our ears. The closest Japanese translation would be "a cleaner that erases free radicals."

Reporter: "Antioxidants such as vitamin C, beta carotene, and flavonoids that kill free radicals are abundant in vegetables, fruits and grain."

Prof, Esatoguchi: "This is another reason why it is important to grow produce without many agricultural chemicals."

Reporter: "The farmers in southern Aso area and the surrounding region have started to actively grow safer and higher quality agricultural produce.

"Some change has started to be seen in major supermarkets and distribution systems. However, in order to make this change a success, consumer consciousness needs to be changed."

Consumer 1: "I want to eat food that is as safe for the body as possible."

Consumer 2: "Organic produce clearly tastes better. What it looks like on the outside is not important."

Reporter: "The Aso area is now in its second year of a new agricultural method that uses organic fertilizer consisting of microorganisms and water and a decreased amount of agricultural chemical use. The farmers are excited about challenging this new horizon."

Announcer A: "It is amazing that they produce that much without using agricultural chemicals, isn't it?"

Announcer B: "I wanted to learn more about restructured water. Currently, this agricultural method is used only in the Aso area."