

The development of special cure for Alzheimer type dementia made by Vanadium V⁵⁺ ion water

1. Discovered by Lewis Clayton Cantley`s team, a professor of Harvard University.

The study of vanadium water started when Cantley`s team, from Harvard University, discovered “V⁵⁺ causes inhibitor activity to Na⁺, K⁺ – ATPase when it is under on Mg²⁺”

After of the announcement of this discover, many of researchers from diverse fields developed the understandings of this study. Although, most of its research are done by Analytical Chemistry Research. Unfortunately, the Physiological research about V⁵⁺ water are quite far from satisfaction because of its insufficient supply. The studies were limited only on Mouse based research and this actually did not help to raise its level.

On the other hand, Japan was easier to obtain samples of high concentrated vanadium water because of its landscape; its generated on several spots at mount Fuji are where surrounded by undersea volcano [Notice 1]. Once it is discovered that this water can reduce the blood sugar level, it was sold at \1,000~\2,000/ 2L bottle and crazed as a water which is effective for diabetes.

This was the image about vanadium water around 2000, when I started its research. Luckily, Japanese researchers have a large resource of V⁵⁺water. Although, this made them underestimate vanadium that it is just a substitution insulin. Japanese researches did not observe it on a different perspective and overlooked its various physiological activities.

At that time, I was just a beginner on researching so what I did is doing at the same time the basic researches and collecting the information of V⁵⁺water from suppliers. As a result, I was able to discover the variety of V⁵⁺ water`s physiological activities.

I was also lucky to have a references such as Cantley`s papers and other books which contains important essences about “V⁵⁺ water”. This led me to publish the masterpiece of my research “The miracle of Vanadium (*VANADIUM no KISEKI*)”, March 2012.

2. Physiological activities of “Vanadium V+ Ion water V⁵⁺ water” and “Aoki`s hypothesis”

“V⁵⁺ water” shows a surprising variety of physiological activities. These are confirmed by 20 years of organizational and personal researches.

(A) Immediate and effective physiological activity

①Diuretic effect —————> Treatment for edema and Nephrosis
—————> Increase salt excretion ———> decrease blood pressure

②Prompt sweating/ gaining heat on body —————> anti coldness
Prompt metabolism —————> Easy to uses energy —————> diet effect

(B)Physiological activities on early stages

③Constipation by Flaccid bowel (60% of all, mostly seen on elderly woman)

④Treatment and control of Alzheimer Dementia

⑤Decrease uric acid level —————> Treatment and prevention of gout

(C) Physiological activities after a month

⑥Decrease neutral fat (Increase of HDL cholesterol, neutral fat and HDL are on Inverse correlation)

—————> Treatment for Hypertriglyceridemia ———> Prevent cardiovascular disease,
Treatment for resistance caused by neutral fat —————> Treatment for diabetes (50-60 % of all)

⑦Decrease blood sugar level —————> Treatment for diabetes

- ⑧Decrease blood pressure Most of the patients are included except some people (10%-20% of all)
15~20% were decreased in 1 to 6 months

All of the variety of physiological activities on above, except Diuretic effect {Notice 1} , are explainable rationally by increase of intracellular Ca^{2+} concentration. The detail are on “The miracle of Vanadium” (“Aoki`s hypothesis”)

3. Verification of “Aoki`s hypothesis”. Treatment effect on Flaccid bowel Constipation by “ V^{5+} water”.

Constipation by flaccid bowel are caused by decreased concentration of endoplasmic reticulum Ca (2+) in longitudinal and circular muscles (These muscles are controlled by peristalsis of intestine.). These are discovered by Kemmele research team on Virginia University on 1995.

We, our team, confirmed many results that “ V^{5+} water” is effective for Flaccid bowel constipation. Drinking “ V^{5+} water” 1L per day will treat it on 2 to 3 days except on some special cases. (For example, insufficient secretion of bile acid) “ V^{5+} water” are able to bring back the sufficient concentration of endoplasmic reticulum Ca (2+) in longitudinal and circular muscles. This explains that “ V^{5+} water” can increase intracellular Ca^{2+} concentration because of various chain reaction of ion channel caused by inhibition activity of Na^+, K^+ -ATPase. We can see here that “Aoki`s hypothesis” are legit in terms of the theory; “ V^{5+} water” have a benefit of various physiological activities. At the same time, this became a proof for a development of (AD) special cure.

4. A surprising effect of “ V^{5+} water” for (AD) (Encountering a curious phenomenon)

4~5 years has past since I started the research of Vanadium Water. I have heard a curious phenomenon from this supplier who provides a high-efficacy Vanadium water. “My mother is 80 years old and she is a hard worker, although on these days, it seems like she gradually loss her energy. She seems also have dementia symptoms like loitering unconsciously. We went to a doctor and, as we expected, she diagnosed as a typical Alzheimer disease. Therefore, I suggest her to drink the vanadium water of my company because there it has a high reputation that the water can cure any types of symptoms. The effect comes out in a week and now, she is back as a hardworking mother again. Actually, she is in a two nights three days trip in *Hakone* with the senior club. (The author did not able to meet her) This story spread to neighborhood. There are other two seniors who also diagnose as Alzheimer disease, and I gave them the vanadium water just like the amount I suggested to drink to my mother. The result is same, the disease was cured in short term. After that, I was asked from this supplier. “Professor, is vanadium water cures Alzheimer disease?” At that time, my researches on “ V^{5+} water” are based about lowering neutral fats” and blood pressure decrease, and I was not familiar about Alzheimer Disease. I felt like I discovered a curious phenomenon, and I answer the supplier just the way I felt. By knowing deeply about anatomy of “Kin” and “Gin”, and researches of Harvard University department of neurobiology developed our studies on “ V^5 water” treatment for (AD). Moreover, encountering this curious phenomenon is one of the miracles to improve our research.

The results for this clinical research are quite fragmental, yet it had a huge meaning in terms of curing an (AD).

5. Anatomy of “Kin” and “Gin”, and “ V^{5+} water”

After years I encountered the curious phenomenon, the studies about “ V^{5+} water” developed and treatment of (AD) are also included on it. That is the time when I catch the information about the anatomy of “Kin” and “Gin”, the oldest public figure in Japan. This twin is still full of energy and

brilliant minded event they became older than 100 years old. Therefore, a group of researchers shows an interest them and asked their family for an understanding to opening their brain.

According to the result, unexpectedly, lots of amyloid β are tightly attached on her cranial nerves. This was really weird brain condition for those researchers who strongly believes on amyloid hypothesis. Therefore, they started to examine on detail what is actually the thing makes the twins brain healthy. The result that the researchers earned was only they just habitually eating blue-skinned fish such as mackerel, sardine, tuna and salmon. In other words, speaking in medical term, they were just intaking a plenty amount of DHA and EPA, which is known as unsaturated fatty acid [Notice2] .

I was in my research about the effect of “V⁵⁺ water” to lower the neutral fat, and this what makes me understand the facilitation of lipid catabolism caused by increasing intracellular Ca²⁺ concentration. I thought that there is a connection between lipid catabolism and homeostasis of neurons.

6. Hypothesis proposed by research group of neurological disease on Harvard university department of Neurobiology

A thesis about dementia symptoms and degenerative nerves of Alzheimer disease are published by Harvard Medical School research group of neurological disease on Nature (issued on July 2009). According to its study, the main cause on early stage of dementia symptoms and degenerative nerves of Alzheimer disease are on inactive presenilin of presynaptic terminal. It is considered that the obstruction of Ca²⁺intracellular influx from voltage-gated calcium channels and the depletion of Ca²⁺on endoplasmic reticulum are deeply related. (Reference, “Curing effect of Vanadium V⁵⁺ ion water on Alzheimer type dementia (1) (2)”)

This thesis helped me out to realize that the curious phenomenon I had encountered few years ago was all about increasing intracellular Ca²⁺ concentration. The “Aoki`s hypothesis” are concluded because of this.

After research group of neurological disease on Harvard university proposed this hypothesis, there are many of researches published says that the main reason of Alzheimer disease are disturbance of homeostasis on intracellular calcium ion.

However, it is difficult to inject Ca²⁺ in nerve cells, and this stops the development of this theory.

“V⁵⁺ water” increases Ca²⁺ rate of all cells because of V⁵⁺ effects which is same as fast-acting cardiotoxic [Notice3] , such as ouabain known at old times that produced by activity inhibition of Na⁺、 K⁺- ATPase. It will be more easier to inject Ca²⁺ in nerve cells by using “V⁵⁺ water” and it can help the development of the theory.

6. Importance and sensitivity to analyze the FACT.

Nowadays, our aging society keep growing and the number of (AD) patients are increasing too. This increment are predicted to keep going. A vast information of (AD) are spread now everywhere. Although a FACT such as “ V⁵⁺ water can cure (AD) in short term because it can increase the neuro intercellular Ca²⁺ concentration.” or “ The result of brain anatomy of old twin sisters, who does not show any symptoms of dementia even though they are over 100 years old, was surprisingly filled with amyloid β which is considered as a main reason of (AD). The thing discovered at this time was only they took a plenty of DHA, EPA from blue-skinned fish.”, was not included on the spread information.

The research result on (4), (5) are important for (AD) studies. Most of the researchers in the world generally tend to be analytic and losing their sensitivity on FACT. This is expected as a reason of failure on 30 years (AD) research. I believe that there are scientific truth in (4) and (5) FACT.

7. Summary

An immediate clinical trial of Vanadium V^{5+} ion water are necessary for curing of Alzheimer type dementia. According to the phenomenon on past, the result can easily predict, so we can smoothly start the development of (AD) special cure on detail. We have few idea including a way of making it intellectual property.

[Notice 1]

Diuretic effect can explain on suppression of Na^+ resorption (same mechanism as antihypertensive thiazide diuretics drugs and loop diuretic drugs) which happens at the same timing of increasing intracellular Ca^{2+} concentration by inhibition activity of Na^+,K^+ -ATPase

[Notice 2]

<DHA $C^{22}H^{32}O^2$ > are included plenty on blue-skinned fish such as sardines, Japanese-Aji mackerel, and mackerels. This will prevent Thrombosis and Arteriosclerosis with EPA.. Inside of our body, it is located on brain and retina, and the research about retinal physiology are become developing

<EPA $C^{20}H^{30}O^2$ > are generated by enzyme reaction of DHA which is separated 2 carbon units.

It will help the blood flow more smoother and be used to prevent Cerebral infarction/ myocardial infarction.

[Notice 3]

It is s group of compounds such as digitalis, ouabain (a poison used on bows in Africa) which show effectiveness on congestive heart failure symptoms by specifically acting in cardiac muscle. Cardiac glycoside will act as a inhibitor on membrane-bound enzymes and Na^+, K^+ -ATPase. As a result, it will increase the intracellular Ca^{2+} concentration and will make the Myocardial contraction activated.

April 15 2019

Takaomi Aoki (Independent Researcher)