

Digitized 3D wave Expressed in 2D Space Showed Functionality of the Substance

Effects of Digitized 3D wave Expressed in 2D Space

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Abstract—Inherent wave of the substance (3D wave) could be transferred to water and other medium. The 3D wave separated from the substance could be digitized and expressed as two dimensional shapes. This research demonstrates that digitized 3D wave in 2D space could maintain functionality of original substance. A plastic card containing digitized 3D wave of medically effective substance such as drug or hormone could be carried close to human body to induce physiological effect of original substance. Digitized 3D wave could be modulated to electricity. It is known that electromagnetic wave is harmful to human. However, electromagnetic wave could be changed in human beneficial way with application of digitized 3D wave. Other than effects to human, electricity itself could be changed in effective wave. It was observed that mobile phone does not get very hot even after long usage and total electricity usage of a house reduced. This research also demonstrated that electricity could be used as a medium for delivering 3D wave of the specific substance. This suggests that every electrical device could be used as a generator of 3D wave of the medically effective substance. 3D wave of the substance transferred to water, plastic card, and modulated to electricity would have wide application.

Keywords— water memory, 3D wave, digitization of 3D wave, modulation to electricity

I. INTRODUCTION

Homeopathy uses toxic substance to enhance the ability of natural healing. Homeopathy view symptoms of a disease as part of the healing process, thus by adding the substance that causes these symptoms to healthy person, the patient's natural healing power increases and thus cures diseases. Substances causing diseases symptom are mostly poisonous so even though the original disease gets cured, the poisonous substance could cause more damage to the body. Thus what homeopathy does is to dilute the poisonous substance until it is no longer harmful to the body and physically stimulate it. Even though the poisonous substance gets diluted in several steps to the point where the poisonous substance is no longer

exist, the natural healing ability of human body actually increases rather than decreases [1, 2].

Homeopathy has been ignored by the orthodox medical circles until now because current science could not explain how a substance's effect can be shown without the actual substance. However, even though it was ignored by the orthodox medical circles, there have been almost three hundred verification experiments done on homeopathic effects in the past decade. Furthermore, about 80% of those showed homeopathy to have different effects from placebo effect [1, 2]. Even though not empathized, homeopathy uses water's memorizing ability. Homeopathy showed that even if the substance does not exist inside water, the information of the substance can be recorded. If water could store information of substance, then this capacity does not need to be confined to homeopathy.

In 1988, Benveniste and colleagues published a controversial article showing a biological reaction of ultra-high diluted solution [3], which could be called as 'water memory'. In their paper it was demonstrated that human basophil degranulation was triggered by extremely diluted (10^{-120} of its original density) antiserum against IgE but only when the each diluting solution was shaken based on the homeopathic method. Benveniste's paper was the first to scientifically prove homeopathy which water can record substance's information despite the substance not being existent. Since then, they published many papers proving water memory effect under various experimental conditions [4-6]. As biological reaction in the absence of any effective molecules cannot be explained by conventional theory, the results of Benveniste and colleagues sparked many investigation of various seriousness. The most serious one was the research performed double blind by 4 independent European laboratories in 2004 [7]. They thoroughly investigated the possibility of water memory using basophil activation by extremely diluted histamine, and they all obtained the same results supporting Benveniste. The interesting fact was the purpose of their double blind test was to disprove Benveniste's research but instead proved that it was in fact true [8]. Even though it was already proven by double blind test, the scientific world still does not show interest in water's memorizing ability.

Benveniste has further developed a new technology as follows: an aqueous solution in which molecules were dissolved was put into a copper tub, then white noise was applied to one side of the wall of copper tub and it was recorded from the opposite side of the wall of copper tub using a microphone which can record sound waves of 20 to 20,000 Hz. Thereafter, Benveniste and colleagues confirmed through repeated experiments that, when the recorded sound wave was converted into a vibration signal to vibrate the water using a transducer, a physiological reaction was also induced [9]. He further showed that recorded sound wave file could be sent through email and transferred sound signal could also induce physiological reaction by vibrating water [10-14]. As biological reaction could be regenerated even from the computer recorded digitized signal, he developed his theory under the name *Digital Biology* [15]. The previous theory was in order for signal transduction to occur, the hormone particles and the cell's receptor had to be physically meet. Benveniste suggested that when a wave propagated from molecule is transferred to a cell receptor through water, the wave can induce resonance of a receptor initiating intracellular signal transmission. Concepts of *Digital Biology* inducing physiological reaction without the presence of any material and digital recording/transmission of the substance' wave could be reproduced in other laboratories [16-18]

These results suggest that there is inherent wave-like characteristic for each molecule, which could be transferred to water and could reproduce physiological reaction like the molecule itself. The inherent wave of the particle is not a new concept. In 1924 de Broglie proposed that every matter has accompanying wave. The existence of the wave inherent to matter was experimentally confirmed, awarding a Noble prize for de Broglie [19]. De Broglie further suggested that the wave inherent to matter is guiding the trajectory of particle (pilot wave) [20]. In 1952 Bohm redeveloped almost forgotten pilot wave theory. According to Bohm, pilot wave of particle is affected by the environment and also affects the environment, which is whole universe [19]. In 1961 Eisberg showed by calculation that pilot wave is faster than the speed of light [21, 22]

Calling such wave as 'information wave' as it decrease thermodynamic entropy, Tiller suggested mass particle and pilot wave interacts so as to be experimentally operational [22]. According to Tiller, pilot wave of the matter could be transferred to water by physical stimulation, and the pilot wave transferred to water could affect receptor by resonance, and intracellular signal transmission could be initiated [22].

If pilot wave does not spread out and affect other particle, it should be carrying out its effects as a field. Bohm expressed this field characteristic of pilot wave as 'quantum potential' which operated as hidden variable. The structure of the field created by pilot wave in water must not be random. It would be reasonable to think that the field is similar to or at least to that of original shape of the matter.

The inherent wave of the substance was expressed as '3D wave' throughout this paper as it maintains a field with 3D structure by constantly moving around the matter unlike electromagnetic wave which spreads out. The existence of 3D wave of DNA as physical entity in space was shown as shown in so called 'phantom DNA effect' by Poponin and scattering pattern of DNA by laser radiation could be regenerated even after DNA was removed [23].

In this research a new electrical device was used to activate and to transfer the 3D wave of substance instead of time-consuming homeopathic method which needs repeated dilution with physical stimulation [24, 25]. The device uses 7.8 Hz frequency which is the resonance frequency of the earth. This global electromagnetic resonance is named after physicist Winfried Otto Shuman who predicted it mathematically in 1952 [26]. 7.8 Hz frequency has already been used for activation and transfer of the 3D wave of the substance [27]. Using the device 3D wave of hormones and other cytokines could be transferred to water.

Noble laureate of 2008 Montagnier and colleagues recently showed that DNA polymerase could recognize DNA wave transferred to water and produce new DNA copies using PCR (Polymerase Chain Reaction), suggesting that 3D wave of the DNA is the physical entity. They used similar device to ours using 7.8 Hz frequency to transfer the 3D wave of DNA to water [28, 29].

It was also demonstrated that the water containing 3D wave of the hormone functions like hormone in biological system [30]. P53 protein functions as a potent tumor suppressor. If the 3D wave of P53 could be transferred to water or any medium contacting water, various strategies could be possible. The water to which 3D wave of P53 was transferred inhibited cancer proliferation, showed anti-metastasis, and increased apoptosis [30].

Benveniste used white noise to carry the 3D wave of the substance [10-15]. The white noise carrying 3D wave of the substance could be converted into digital form by recording into computer. The recorded signal could be easily converted into vibration signals using transducer to regenerate biological reaction in water. However, this whole procedure of inducing biological reaction using white noise is inconvenient and difficult to apply. In this research we have used 3D wave transferring device and strong light source to digitize 3D wave of the substance. Computer recorded 3D wave was expressed into a visual shape in two dimensional (2D) space. Digitized 3D wave expressed in 2D space showed the same functionality as the original substance, which is much easier to use and has wider applications.

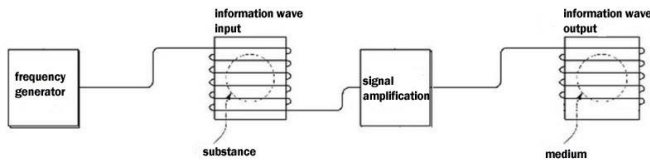
II. METHODS

3D wave transferring device

A new electrical device was devised to replace time-consuming homeopathy which needs repeated dilution with physical stimulation at each dilution (Figure 1) [24, 25]. The device uses 7.8 Hz frequency

which is the resonance frequency of earth. Using the device 3D wave of hormones and other cytokines could be transferred to water. Subtle magnetic field was generated with the frequency around the input container where coil is wrapped around to activate and transfer 3D wave of the substance (12V, 40mA).

Figure 1. Device transferring 3D wave of the substance



Digitization of 3D wave

3D wave of the substance is transferred to ferrofluid using 3D wave transferring device. Then ferrofluid are put in transparent plastic bag and exposed to strong light in visible range. The reflected light is recorded and digitized using image sensor. Digitized images could be modified in computer.

Measurement of rotating electromagnetic wave

Rotating magnetic wave is measured at the Center for Rotating Electromagnetic Wave of Ajou University at Suwon, Korea. The term 'rotating electromagnetic wave' means the waves released from a substance which should be another name for 3D wave. By measuring the magnetic field difference induced to an electromagnet by a rotating electromagnetic wave of the substance, the directional nature of the rotating electromagnetic (clockwise or counter clockwise) wave could be determined. The polar nature (positivity or the negativity) could be determined by exposing the substance to strong light and measure the amount of light adjusted by the substance [31, 32]. The positivity of a rotating electromagnetic wave indicates that the rotating radius decrease toward the direction of progress and the negativity indicates that the rotating radius increase.

Measurement of bio-resonance

Bio-resonance was measured using Quantum Resonance Spectrometer (QRS) at Conmaul Hospital of Oriental Medicine at Seoul, Korea. QRS is measuring interaction of 3D wave of the substance with human body which appears as a change of autonomic nervous system giving a numerical value for each code [33, 34]. Measurement with higher digit indicates more significance for each code. Bio-resonance measurement could be on the line of Radionics and could be expressed as more objectified version of the O-ring test or the muscle test used by Kinesiology measuring human interaction with substance. It was reported that the confidence-degree of bio-resonance measurement is over 95% for skilled operator [33].

Other measurements

^{17}O NMR was measured with 500MHz Avance-500 (Bruker) at National Center for Inter-University Research facilities. Brain waves were measured with Neruoharmony system (Braintech).

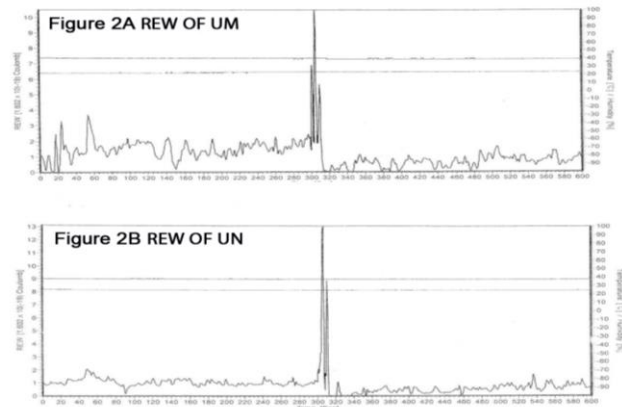
III. RESULTS

Measurement of rotating magnetic wave

There is currently no method to directly measure the 3D wave from substance. Recently it has been reported by that by characterizing the rotating electromagnetic wave it would be possible predict effects of the substance to human body [27, 28]. The term 'rotating electromagnetic wave' means waves released from a substance which should be another name for 3D wave of the substance. The 3D wave that is discussed in this paper has been called as torsion wave, spin wave, and scalar wave, etc. in other places. In Asia these waves have been traditionally described as chi for thousand years.

Figure 2A shows the measurement of rotating electromagnetic wave (REW) of ceramic balls made from natural rocks (named as UM meaning healing mineral in Korean). UM is a mineral combination to produce alkaline reduced water with high pH and low ORP (Oxidation Reduction Potential) [25]

Figure 2. Rotating Electromagnetic Wave (REW) of UM and UN



Both UM and UN showed same leftwise & positive pattern of rotating electromagnetic wave. Leftwise & positivity pattern represents crystal bond which is known to be human beneficial and neutralize harmful nature of electromagnetic wave.

The pattern of rotating electromagnetic wave (REW) of UM shown in Figure 2A indicates that the REW is counter clockwise rotational direction and its radius is being decreased towards the direction of progress (positivity). Out of 4 possible combinations counter clockwise & positivity pattern represents crystal bond which appears in natural rocks and is known to be human beneficial. The substance of this pattern is known to make human healthy, suppress tumor growth and harmful bacterial growth, and also neutralize the harmful nature of electromagnetic wave or water vein [27, 28].

Figure 2B shows REW measurement of plastic card where digitized 3D wave of UM is expressed (named as UN meaning healing energy). UN is a digitized 3D wave expressed as a 2D shape in common plastic card. Surprisingly UN card containing the digitized 3D wave also showed the same counter clockwise & positive pattern as the UM (Figure2A). General plastic card shows no pattern at all. This result shows that digitized 3D wave of the substance expressed in plastic card (UN) still maintains the same pattern of rotating magnetic wave as the original substance.

¹⁷O NMR measurement

When liquor goes through a long storage it tastes smoother. This does not mean that the alcohol concentration is decreased but the cluster of alcohol and water is getting smaller, thus becomes easier to blend. The decreased cluster of water and alcohol can be measured by the half linewidth of the water peak of ¹⁷O NMR. Half linewidth of the water peak is known to be proportion to the size of the water cluster [30]. Table 2 shows the measurement of ¹⁷O NMR of alcoholic liquor (20% v/v) before and after placing UN card under each bottle for an hour.

Table 1. ¹⁷O NMR measurement

Sample	Half linewidth (Hz)
Liquor	183.9±1.9
Liquor (UN card)	161.7±4.6

¹⁷O NMR was measured with 3 samples. Data are expressed as means ±SD.

It is noticeable that the ¹⁷O NMR's half linewidth has been decreased for alcoholic liquor by placing UN card under the bottle. These measurements suggest that due to digitized 3D wave expressed in UN card, cluster size of water and liquor gets smaller, thus easily mixes each other and makes the liquor taste smooth.

Electricity modulation with digitized 3D wave (UL)

3D wave of the substance could be modulated into electricity using 3D wave transferring device [24]. In this research the modulation of the 3D wave to electricity has been attempted by placing digitized UN card expressed in 2D space (where 3D wave of the UM is expressed in plastic card) inside electrical cord wound around a tub where alternating magnetic field (220V, 60Hz) is formed.

After a mobile phone's battery has been charged with modulated electricity with digitized 3D wave (named as UL meaning healing electricity), bio-resonance of male (age 46) has been measured while using mobile phone (Table 2). Bio-resonance is measuring interaction of 3D wave of the substance with human body which appears as a change of autonomic nervous system giving a numerical value for each code [29, 30]. Bio-resonance measurement with higher digit indicates more significance.

Table 2. Bio-resonance of a person using mobile phone

	Control	Mobile phone (ordinary battery)	Mobile phone (battery charged with UL)
Immunity	17.7±0.6	-16.0±1.0	21.0±0.6
Brain	17.0±1.0	-9.5±0.6	18.7±0.4

Bio-resonance was measured 3 times with each case. Data are expressed as means±SD

Bio-resonance of a person using mobile phone that was charged with ordinary electricity showed negative figures of bio-resonance indicating very harmful to human while that of mobile phone charged with UL showed rather higher numbers of bio-resonance even compared to that of not using mobile phone (Table 2). These results suggest that it is possible to neutralize harmful effect of electromagnetic wave by modulating 3D wave of UM to electricity (UL). According to the data, it might be even suggested that using mobile phones could rather improve human health.

Other than effects to human health, it is observed that mobile phone does not get very hot even after long usage. Although it was quite variable depending on the model of mobile phone, temperature measurement with i-iphone4S after 30 minutes of continuous usage shows that temperature of mobile phone was 4.1 degrees lower when charged with UL, while the test with HTC mobile phone (EVO 4G+) showed 2.8 degrees difference (Table 3). This could mean that electricity itself was changed in very effective way resulting in low resistance.

Table 3. Temperature difference of mobile phone by UL

(°C)	Mobile phone (ordinary battery)	Mobile phone (battery charged with UL)	ΔT
iphone 4S	38.2±0.2	34.1±0.2	4.1
HTC 4G+	37.4±0.6	35.6±0.1	2.8

Temperature of mobile phone was measured before and after 30 minutes of continuous usage. Measurement was repeated 3 times first without application of UL, and then repeated 3 times after application of UL. Data are expressed as means±SD.

Table 4. Reduction of total electricity usage by UL.

(KWH)	A	B	C	D
Before	184	128	325	445
After	261	208	232	343
%	70.4	61.5	71.4	76.5

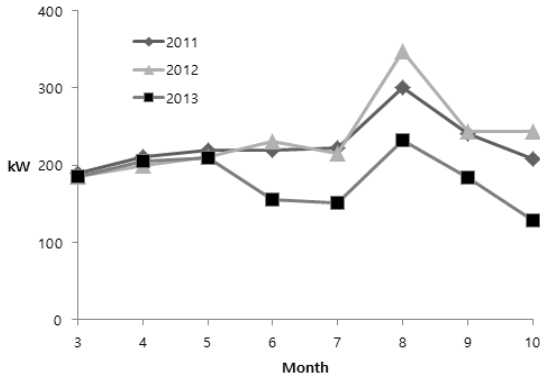
Total electricity usages of the houses after application of UL were compared with those of the same month of previous year. Data are expressed as KW per hour (KWH). UL was installed at the electricity distributing board of each house.

Total electricity usages of the houses after application of UL were compared with those of the same month of previous year (Table 4). UL was installed to electricity distributing board of a house. Total electricity usage of a house could be saved 23-

38% with application of UL when compared to those of previous year.

Figure 3 shows time dependent change of electricity usage after application of UL. UL was applied from June of 2013 for this house.

Figure 3. Time dependent electricity usage of a house with application of UL



Time dependent electricity usage of a house (house A of Table 4) after application of UL was compared to those of previous 2 years without UL. UL was installed at electricity distributing board of a house from June of 2013. It was observed about 30% electricity could be saved for each month after application of UL.

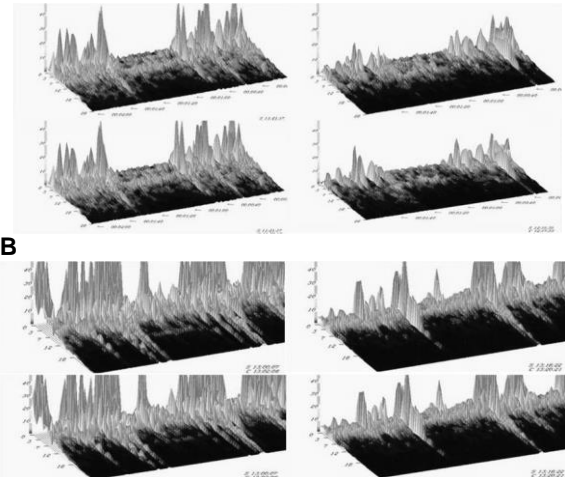
Electricity modulation with specific 3D wave

Modulation of 3D wave of the substance to electricity could have wide application. It could be even possible to modulate the 3D waves of the specific substance into electricity. Serotonin is the largest single neurotransmitter system of the brain [31]. Its secretion and physiological actions mediate stress and pain, affecting both immune and nervous system functions. Serotonin dysfunction is well-characterized in mental disturbances like depression and anxiety. Digitized 3D wave of serotonin was modulated to electricity and its effect was investigated by monitoring brain wave. While watching computer monitor connected to serotonin modulated electricity, brainwaves of various people were measured before and after application of UL (Figure 4 & 5).

While awake, delta waves and theta waves of brain should barely be appearing (the large peaks on the back side of the graph). To observe the influence of delta and theta waves, brain waves of a male (age 54, A) and female (age 54, B) were measured for 30 seconds, followed by 30 seconds resting period with eyes closed, and again measured for 30 seconds. When eyes were closed, peaks of delta and theta wave have disappeared (for male) or reduced (for female) (Figure 4). When delta waves and theta waves are active while awake, it means difficulty in focusing and easy distraction. It was observed that delta and theta waves of both male (A) and female (B) decreased with application of UL with 3D wave of serotonin.

Figure 4. Measurement of brain wave while watching computer monitor with resting period

A

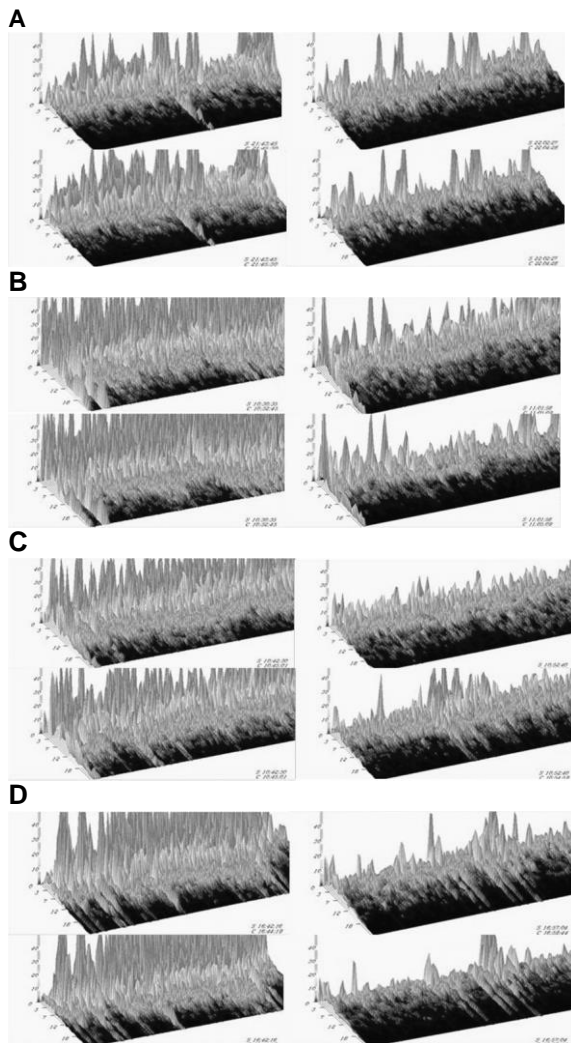


The 3D wave of serotonin was modulated to electricity. While watching computer monitor connected to serotonin modulated electricity, brain waves of a male (age 54, A) and female (age 54, B) were measured. To observe the influence of delta and theta waves, brain waves were measured for 30 seconds, followed by 30 seconds rest with eyes closed, and again measured for 30 seconds.

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In Figure 5 brain waves of various people were measured without resting interval with eyes closed. For every measurement the same pattern of brain waves were observed with application of UL. Delta and theta waves were active while staring at the computer monitor (Figure 5 left side) but when staring at a monitor using electricity modulated with 3D wave of serotonin, intensity of the delta and theta waves decreased (Figure 5 right side). These results showed that 3D wave of the serotonin could be modulated to electricity and affect the brain wave of those who were staring at computer monitor. It is very likely that the modulation of the 3D wave of the substance should not be confined to serotonin. These results suggest that every electrical device could be turned into a generator of 3D wave for hormones or cytokines [25, 26] with application of UL.

Figure 5. Measurement of brain wave while watching computer monitor without resting period



Brain waves of various people were measured without 30 seconds resting period. Left and right side figures show brain waves before after application of UL, respectively. In each figure upper part is a brain wave of right brain and lower part is that of left brain: A. male (age 24), B. female (age 46), C. female (age 50), D. male (age 60).

IV. DISCUSSION

Benveniste modulated the 3D wave of the substance to sound and record the sound signal to a computer. Computer recorded digitized sound signal was converted into vibration signal using transducer to reproduce physiological reaction in the water [10-18]. In this paper 3D wave of the substance was digitized and expressed as a certain shape in 2D space such as common plastic card. Digitized 3D wave of the substance expressed in 2D space is much easier to use and has much wider applications.

Although not proved through biological experiment, our results suggest that digitized 3D wave expressed in common plastic card could induce the functionality of the original substance. The following explanation could be possible: digitized 3D wave expressed as a certain shape in 2D space is (UN) still related to original substance through hologram, thus

characteristic of the original substance still appears even though it is digitized and expressed in plastic card. Eisberg showed by calculation that pilot wave (expressed as 3D wave in this paper) is much faster than the speed of light [21, 22]. If 3D wave is faster than the speed of light, it should have negative mass. According to Dirac [32], space is described as a domain of negative energy and negative mass. It is possible that digitized 3D wave expressed in common plastic card is connecting the 3D wave of the original substance to the space itself (Dirac sea: infinite sea of particle with negative energy) to form the 3D wave of the original substance around the card through holographic space.

Digitized 3D wave expressed in 2D space could be used in various ways. A card containing digitized 3D wave of medically effective substance such as drug or hormone could be carried close to human body to induce physiological effect. It could be also possible to attach card on a water bottle to transfer 3D wave of the specific substance to water. Such digitized 3D wave could be expressed in any 2D space such as on clothes on walls to affect environment.

Especially digitized 3D wave expressed in 2D space could be effective in for curing brain disease. Brain is protected by blood brain barrier (BBB) which inhibit drug from outside to pass through brain. For example, serotonin deficiency is related to depression. However, there is no way to put serotonin through brain because serotonin could not pass through BBB. Thus, it is needed to bypass BBB. SSRI (Selective Serotonin Reuptake Inhibitor) class antidepressant drugs are representative bypass drugs and are most widely prescribed currently [31]. They delay the reuptake of serotonin resulting in serotonin persisting longer in brain. Although SSRI class antidepressant drugs are regarded as relatively safe drugs, they have serious side effects such as to increase the risk of suicide and to increase tendency for violence [31]. However, if the 3D wave of serotonin itself could be given to patient using digitized 2D card or memorizing ability of water, we can imagine that it could be an ideal safe drug, as there is no substance causing unwanted side effects like SSRI class. Other than serotonin virtually every neurotransmitter which cannot pass through BBB could be medically utilized with the digitization technology in this paper or using memorizing ability of water. It is being observed that many patients with diseases related with brain such as depression, anxiety, insomnia, dementia, Parkinson's disease and even ADHD (Attention Deficit Hyperactivity Disorder) and autistic children get improved with digitized 2D card containing 3D wave of medically defective neurotransmitter for them [33].

Digitized 3D wave could be used to change the characteristic of electricity as well. When digitized 3D wave has been modulated into electricity (UL), harmful nature of electromagnetic wave has been changed in beneficial way to the human. As shown in the result, brain wave is stabilized while watching computer monitor. It is also noticed that the symptoms such as shoulder pain or eye congestion occurred by

long time watching computer disappeared [33]. Various effects could be expected from electrical devices. For example, electrical cooling system does not disturb balance of autonomic nervous system and thus does make people feeling not tired. It is also observed that food made by electrical cooker or microwave tastes better and freshness maintained longer [33].

Especially, mobile phone gives people good feeling and does not get very hot even after long usage. If mobile phone does not get heat, it means that battery can be used longer without losing energy as useless heat. This suggests the possibility of electricity saving by application of UL. It was indeed observed that total electricity usage of a house could be saved 20-40% with application of UL. Further serious researches are expected regarding characteristic of electricity modulated with 3D wave.

It becomes almost common knowledge that electromagnetic wave is harmful to human. However, there is no clear explanation regarding why electromagnetic wave is harmful. The results of this study suggest that electromagnetic waves could be harmful to human because of harmful 3D waves contained in the electricity. This might mean that the current way of generating electricity is not friendly one to human. Our research suggests that it would be possible to generate human beneficial electricity by modulation of human beneficial 3D wave even though intensity of electromagnetic wave remains same.

Electricity exists everywhere and electromagnetic wave is known to disturb autonomic nervous system. If 3D wave of medically effective substance could be modulated into electricity and thus electricity itself could deliver the 3D wave of the substance, it would have limitless possibilities. It could mean that every electrical device could be used as a generator of specific 3D wave.

Digitized 3D wave could be expressed in various ways in our environment. It would be very nice if we could maintain health by changing environment. Further researches on biological and physiological effects using laboratory experiments and serious clinical studies regarding water memory and digitized 3D wave of the substance are expected.

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