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Meridian on Medical Duality of Particle and Wave



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Introduction

What is Life? Erwin Schrodinger Whispered.

Nine years later, the DNA had been discovered from the concept of aperiodic crystal.

What is light?

Let there be light, the first day, God said. (Genesis in the Bible)

Let the earth give birth to all sorts of life, the sixth day.

Light is between particle and wave. Sir Isaac Newton wondered.

Fourier Transform links the duality of time and frequency domain; however, it took much time to be accepted by academic and engineer field in those age. Even when electric telegraph had been achieved, Lord Kelvin supported Fourier transform anonymously. The duality of wave and particle about light took longer time than Fourier Transform until quantum physic developed.

How about the Medical Duality of Particle and Wave?

Different from Conventional Western Medicine focuses on molecular and particle, Chinese Medicine pays much attention on wave. This complementarity should be the major issue including cultural different, knowledge limitation, technique development and economic demand. To face the medical duality maybe lead to the integrated medicine and solves the medical problem existed in above fields. Compared to conventional western clinic based on anatomy and chemistry particles, traditional Chinese medicine physicians practice clinic following "Chi" and "Dao" (or "Principle").

What is "Chi"?

After 25 years study of Pulse Diagnosis, we defined it as wave or periodic signal. Under this definition, we could recognize the reality between time and frequency domain phenomenon with Fourier Transform [1]. Moreover, we could discover the basis of Chinese Medicine based on mathematics and physics [2]. With second harmonic generation law and the energy conservation law, we proved the core mathematic property and philosophy of the Chinese "Five elements theorem" [3]. From the balance of the forces on the artery wall by Newton's Law of mechanics, we derived the "Radial resonance equation" to describe the physical property

of the blood pressure wave propagation and transmission in the arteries. Meanwhile, "Radial resonance theorem" explains the physiology of circulation system and builds up the meridian basis of Pulse diagnosis [4-6]. Based on the results obtained from both animal and clinical experiments, we verified the pulse diagnostic method recorded in medical literature classic and designed a pulse apparatus according to this principle of meridian. Through the pulse diagnostic apparatus, we could map the meridians to harmonics and quantitatively analyze the pathological excess or deficiency of the meridians and five zang-organs and six fu organs of the patient (pathological matrix) [7-10].

In addition, a series of pharmacology research analyses of acupuncture, Chinese herbs, herbs prescription formula and western drugs on the reinforcing or reducing effect of meridians were being carried out [11-18]. On the other hand, with matrix operation, we were able to simulate the whole meridian function of a prescription formula which is composed of several herbs (pharmacological matrix) [16]. In clinic, we found that the pathological indicator in pulse diagnostic apparatus-H.C.V. (Coefficient of Variations of Harmonics Magnitude) could quantitatively reflect the severity of diseases and evaluate the outcome of patients after treatment. From health to death, life struggles between convergence and divergent of negative entropy revealed by the H.C.V. [19-20]. Combining the H.C.V., the pathological and pharmacological inverse matrixes, we developed an algorithm in an AI system that presents the mathematical conditions of the formulae recorded in the Chinese Medicine Bible: Shang Han Za Bing Lun, such as the white tiger and green dragon formulae [21].

This links the infinite combinations of pulse wave harmonics, all clinical syndromes and more than three hundreds remedies. This maps one to one on meridians, just like Fourier Transform. With meridian concept, we discovered a series of compounds from Cnidii Fructus which is a simplest herb formula described in Shang Han Za Bing Lun. Including derived BMX, these compounds have being identified as HDAC8 inhibitor. Meanwhile, we developed these compounds guided by the meridian effect on liver and gallbladder which dominate the blood perfusion of brain recorded in Chinese Medicine classic literature. As we expected, BMX passes through

BBB (blood brain barrier) in our study. These results provide confidence to us for brain cancer therapy [22].

What is "Dao"?

The algorithm behind the AI system for all sorts of life is the Intelligence of the Nature about meridian, or the principle of I Ching on harmonic, which we call "Dao" [23].

What is Life?

Life is the phenomenon between Particle and Wave.

What is Scientific Future of Contemporary Medicine?

The clinic faces the duality of Particle and Wave. Or Meridian Medicine become evidence-based Medicine by measuring and analysis the harmonic waves on our body.

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