

View points

The Study on Medical Mechanism of Oral Negative Pressure

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ABSTRACT The 21st century is the times of life medical century. It is the new era of returning to nature, green environmental protection, health caring, emphasizing prevention and the revival of the health medicine. This article presents a new theory introducing present chemical and physical theory to medical field. It describes the theory of meridians- blood-lymph, TCM meridian theory and Qi-blood fluid by studying the vital power elements and the complex ion which is soluble in water. We establish the negative pressure in oral to activate the meridians-hemolymph circulating and form the pressure gradient in coelom which can increase significantly the oxygen concentration in the tissues and distance of oxygen diffusion to activate the human meridian channel. The method is simple, reliable and has no side effect through repeated clinical tests.

KeyWords: Oral negative pressure; Vital power element; Meridians- blood- lymph

The origin and power elements the life

The ancient Chinese words: "all things of universe originate from the chaotic states which are detached. The life is not exist until the Yin and Yang appears." bible said, "The god created heaven and life". However it is not substance basement. Although the appears of Yin and Yang Qi had the life which has some substance basement, there is not certain evindence.

The 16th century in Renaissance, some natural scientists and philosophers gradually were coming into being. In 19th century, the materialistic philosophers represented by Karl Max and biologists of cell theory and evolutionism represented by Darwin who promoted the thought and medical theory to a qualitative leap. The new Bourgeois and Proletariat driven by the industrial revolution raised the productivity significantly. The anatomy and pharmacy had great development to exceed the ideology concept and material life level of the orient.

The Chinese of the 21st century dig out a treasurehouse in Traditional Chinese Medicine. Now, the Chinese people guided by "the scientific development view" have huge achievements in studying the theory and practice of TCM vital power elements and

the complex ion which is soluble in water. The medical theory is internationally advanced.

In recent years, we analyzed a lot of traditional Chinese medicine and confirmed that there were many the fourth period elements in them. We also found in the analytic data that the Yin and Yang attributes of TCM had close relationship to the distribution order of oxidation potential of the fourth period elements. The elements of high oxidation potential are predominate in Yang attribute TCM and which of low oxidation potential are predominate in Yin attribute TCM(1,2).

The electrophilic strength of aquo ions of the fourth period transition elements, have considerable duality, which can also approach and separate. In this way, they can catalysis and activation in the chemical process of life, and degrade the microbiological chemical reaction. So we call the elements the vital power elements (3, 4).

As we all know, any chemical process is connective with the interaction of electrical property of reagent, the vital chemical process is no exception. The above elements establish the rationale in application analysis of TCM, meanwhile, they also confirm that complexion which is soluble in water is the deepest and basic microcosmic environmental motivation to compose, reproduce and transcribe the genetic carrier(5-7).

The origin of human diseases

The TCM had studied the meridian in living people for several thousand years. Unobstructed meridian ensure the Qi, body fluids and spirit smoothly, blockage of which is the origin of all diseases. So what is the meridian? The TCM considers that the merid-

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ians is line of Qi-blood transportation which is distributed all over the human body(8).

The other TCM's theory of pathogenesis is based on "Suwen" (9) that discussed the theory of emotion-caused disorders. "All diseases result from Qi disorder. Rage driving qi upward, overjoy slackening qi, excessive sorrow consuming qi, terror collapsing qi, terror disordering qi, anxiety causing qi stagnation." That is to say, the 1st, overjoy causes diseases is because the strong stimulation will cause the sympathetic excitation and release a lot AD which will accelerate heart rate, elevate blood pressure, quicken breathe and raise body temperature. If the changes are exceeding to the human adaptability, it will make the functional disorder of each entrails. The 2nd, excessive sorrow will cause the depression of liver-Qi and make qi-stagnancy and blood stasis. The 3rd, rage causes diseases because the passive emotion of anger will not only damage the liver, also will damage the heart, the stomach and the brain. The 4th, excessive contemplation will affect the function of the spleen and stomach to cause retention of food. Over anxiety will cause serious disorders even to death. The fifth, over sorrow will cause the qi-movement disturbance which will destroy the heart-spirit, even cause the genital essence exhausted and die of five viscera damage. The sixth, panic will make restlessness and the disorder of activities of qi, which can cause serious sickness to die. The seventh, terror will damage the kidney and make disorder of qi and emotion.

Otherwise, the TCM consider that the climates of four seasons also can cause illness. The wind, cold, summer heat, wet, dryness and fire are the necessary external condition for human living and growing and developing as well as exopathogens. Human health if the six vital substances for life process essences are normal, or illness while which are abnormal.

Modern medical doctor found the blood vessel, lymphangion and nerve in cadaver, but no found the meridian. Some traditional Chinese medical scientists consider that the lymphatic and nervous system is the meridian described by the traditional Chinese medicine. We think the conclusion is superficial and groundless. No founding the meridian in cadaver is normal because the meridian exist only in living body with qi. Above all we recently propose the new theory of "the lymphatic system is the self-caring system, which has three functions of immune defence, depuratory and reparation." Provocating the function of lymphatic system, strengthening the motivation of lymphatic return, activating the blood-lymphatic microcirculation and increasing the efficacy of lymphatic system will treat many common diseases and some stubborn diseases. That is very important for disease prevention and lengthening our lives(10,11).

The new theory of current therapy and health care

The contemporary molecular biologists consider the lives' origin through the catalysis and activation by complexion which is soluble in water. The inorganic substances turn into organics, and

the organics turn into biological functional molecule. Gradually the simple cells appear and then turn into complex cell colony and living bodies. The water-solubled complexions maintain the lives of living bodies (12, 13).

In studying the balance mechanism of human internal environment, the TCM consider that the western medicine focus on the nerves, blood vessels and lymphatic vessels, while the TCM focus on the mechanism of qi, blood and body fluid. Some scholars call the intercellular gap as the meridian, which is channel system of tissue fluid. They form a complicated and intercommunicated chain which has many stabilizing mechanism. Effusion of protein from vessels is related to the COP of tissues. The disorder of local drainage of lymphatic system will cause lymph edema (14).

The contemporary vital dynamics of TCM consider that the Yin-Yang theory, qi, blood, body fluid theory, the meridian doctrine and the blood-lymph theory all reflect the general rule and profound philosophical principle of their own fields while the lackness of quantitative analysis to the microchemical elements and the (13,14)

Now, China has produced kinds of medical treatment and health care facility such as the equipment of activating human blood-lymph system through by establishing negative pressure in oral; Jiangshi harmonic qi ventouse; equipment of abundant oxygen and activating meridian by negative pressure. They will protect the old people's health (15, 16).

The reasons of establishing negative pressure

In China, the cupping for treatment and health maintenance is based on the principle of warming circulation of qi and blood, dehygrois, promoting circulation of qi and blood, detumescence and analgesic. While the contemporary medicines establish the negative pressure in oral based on the theory of vital power elements and water-solubled complexions is a new treatment method. Why we should establish the negative pressure in oral cavity? (17)

1. According to the suggestion that the meridian is the intercellular gap which is the internal cause of diseases metabasis. The bacteria and virus can enter the oral make which becoming earliest infected cavity. Otherwise, the meridian in oral is most sensitive, then we choose the oral to study the tranpqi, blood and body fluids transportation(14,16).

2. According to the analysis of the anatomy, there are abundant lymphatic tissues such as adenoid, tonsil of torus tubarius, lateral pharyngeal bands, tonsilla palatine and lingual tonsil and so on. These lymphatic tissues conform tonsillar inner ring through the lymphangion. The efferent lymphatics of this ring conform the outer ring with the cervical glands. Then the study of tonsillar ring begins with oral.

3. According to the new theory of "the lymphatic system is the self-caring system, which has three functions of immune defence, depuratory and reparation", we form the gradient dp in intracoelomic cavity system by establishing negative pressure to in-

crease the gradient pressure between the two ends of tissue channel. That will be helpful to wash away the metabolin deposit in vivo and activate the blood-lymph microcirculation. Diseases caused by stagnation of qi and blood will be treatment with smoothed channel of meridian. This kind of medical equipment has great effect especially for prevention and recovery of illness. It provides a convenient method to health caring and life lengthening (16, 17).

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