

# Multifaceted Health Benefits of Medical Qigong

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by

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## Introduction

It is a challenge for the Western mind to understand the function of *Qi* in the context of bodily functions as defined by science. According to Chinese medicine and *Qigong* theory, *Qi* has an infinite number of functions in the body.

The foundation of *Qigong* and TCM theory dictates that intention (*Yi*) directs the movement of *Qi*, which in turn directs the flow of blood in the body. Increased or decreased electrical activity in specific areas of the body determines blood flow and fluid balance, accumulation and dispersal of substances. The practice of *Qigong* is the act of bringing awareness and skill to direct the function and movement of *Qi*. The correct movement of *Qi* is a force that engages the body's natural tendency toward homeostasis. Continued practice provides reinforcement of the body's inclination toward homeostasis and therefore toward optimal use of all its functions and potential. What are called 'special abilities' or 'psychic powers' that sometimes develop in *Qigong* practice are simply the product of our natural capacity in the refined human state.

For health maintenance, the *Qigong* practitioners do not have to be an expert. Almost anyone can learn to practice *Qigong* to maintain and improve his or her own health. The objective of the exercises is to strengthen the *Qi* in the body and remove obstructions to *Qi* flow that may have developed due to injury, emotional states, diet, disease or other factors. Conversely, obstruction of *Qi* flow can also produce disease,

Of all the energy medical practices, *Qigong* has the most developed theoretical basis and has been subjected to the most extensive research. In China, the collected knowledge about the therapeutic benefits of *Qigong* was developed over thousands of years. Medical *Qigong* is now practiced in clinics and some hospitals that integrate traditional Chinese medicine (TCM) and conventional Western medicine. In Western hospitals *Qigong* is among several complementary practices used including Therapeutic Touch, Mindful Meditation and Reiki.

### **Clinical Research Demonstrates the Multifaceted Effects Qigong**

In the early 1980's Chinese scientists initiated research on the health and healing claims of *Qigong*. Of the hundreds of research studies that were performed, few were published because suitable journals were unavailable. However, about 1400 reports were published as abstracts in the proceedings of conferences. English abstracts of these reports as well as those from scientific journals are collected in the *Qigong Database*<sup>™</sup> that presently contains more than 2000 records of *Qigong* studies and is available from the Qigong Institute. (Sancier KM 2000) One of the authors has discussed the medical benefits of *Qigong*. (Sancier KM 1994; Sancier KM 1996a; Sancier KM 1996b; Sancier KM 1999; Sancier KM Weintraub 2000)

Wang and Xu, two western-trained doctors in China explored some of the multiple health benefits of self-practice *Qigong* as summarized in the table. (Wang CX 1991; Wang CX 1993; Wang CX 1995)

Activities of two messenger cyclic nucleotides

Anti-aging

Antithrombin III

Asthma

Blood flow to the brain for subjects with cerebral arteriosclerosis

Blood pressure

Blood viscosity

Bone density

Cerebral functions impaired by senility

Endocrine gland functions

Erythrocyte deformation index

Factor VIII-related antigen

Hypertension

Immune system

Longevity, 50% greater; after *Qigong* 30 min/twice daily, 20 years

Plasminogen activator inhibitor

Serum estradiol levels in hypertensive men and women

Serum lipid levels

Sexual function

Strokes, 50% fewer after *Qigong* 30 min/twice daily, 20 years

One of the prime benefits of *Qigong* is stress reduction, and a main ingredient of practice is intention (i.e., *Yi*) that uses the mind to guide the *Qi*. While *Qi* itself has not been measured, multiple types of measurements demonstrate the effects of *Qi* on the body. For example, simultaneous measurements of the interaction between a *Qigong* master and receiver included respiration, EEG, vibrations, blood

pressure, skin conductivity, and heart rate variability.(Yamamoto M 1997) Different physiological measurements have sought information about the effects of *Qigong* on the brain and emotions. These include measurements by high-resolution electroencephalography (EEG), functional MRI (fMRI), neurometer measurements, and applied kinesiology. Neuroimaging methods were used to study regional brain functions, emotions and disorders of emotions. Differences were found on the effects on the brain during meditation by *Qigong* and by Zen meditation.(Kawano K 1996) The effects of emitted *Qi (waiqi)* has also been extended to cell cultures, growth of plants, seed germination, and reduction of tumor size in animals.(Sancier KM 1991) Spiritual healing, which involves the mind, has been the subject of two volumes by Benor.(Benor DJ 2001; Benor DJ 2002) His discussions also include scientific studies describing the beneficial effects of prayer on subjects' health.

The work of Richard Davidson and Paul Ekman, researchers of the Mind and Life Institute, may go a long way to illustrate the role of intention alone on the brain and body.(Davidson JD 1999) In current studies underway at University of California at San Francisco Medical School and University of Wisconsin, they are observing the electrical mechanisms in the brains of highly trained Buddhist lamas during various states of focused intention. Using functional, fMRI, high-resolution EEG and state-of-the-art reflex monitoring, their early results illustrate that electrical activity and blood flow in the brain can be directed by conscious intention. Through systematic and repeated practice of intention, well-practiced lamas have succeeded in training the brain to direct electrical activity away from areas associated with the biochemistry of stress, tension and disturbing emotional or physical states (i.e., the amygdala and right prefrontal cortex) and increase activity in the area associated with the biochemistry of healthful emotional and physical states (i.e., the left prefrontal cortex). Moreover, they have observed that the state of conscious intention on compassion engages a state of relaxation and well being which surpasses even that achieved during a state of rest. The early results of this research suggests that parts of the brain thought previously to be fixed in function, such as the stress reflexes of the reptilian brain, may in fact be

plastic in nature, able to be changed, shaped and developed through ongoing practice of conscious intention.(Lama Dalai 2003)

Cost containment of healthcare is a subject of vital contemporary interest. For example, in the treatment of asthma self-applied *Qigong* led to significant cost decreases, such as reduction in days unfit for work, hospitalization days, emergency consultation, respiratory tract infections, and number of drugs and drug costs.(Reuther I 1998)

### **Recommendations**

The vast research of medical benefits of *Qigong* offers a rich source of information for benefiting mankind. Medical cost containment is an attractive benefit of *Qigong* practice and should be further explored to provide healing potential without side effects.

The science and art of *Qigong* may open a window into new thinking about health, medicine, psychology and spirituality. It is a physical, mental and spiritual practice that continuously supports our natural tendency toward homeostasis. If that tendency is supported with regularity, allowing one to hover more closely to that point of balance, then the entire being can experience a tremendous evolutionary advantage. Innate abilities have an opportunity to develop; the senses more keen, organ function more consistent and strong, the sympathetic nervous system relaxed, parasympathetic nervous system efficient, the mind relaxed, alert, clear, freely channeling messages in a multitude of new and diverse directions.

From a scientific point of view, the promise of *Qigong* practices provides new avenues for understanding some of the subtle aspects of human life and its natural inclination to strive for balance. For clinicians it shifts our focus from a battle with disease to a cultivation of health. For practitioners of

*Qigong*, it gives us an experiential understanding of greater balance within ourselves and of the cultivation our individual physical, mental and spiritual potential.

#### Reference List

Benor DJ. Spiritual healing-scientific validation of a healing revolution. Vol. 1. Visions Publications, Southfield, MI 48034, 2001.

Benor DJ. Spiritual healing-scientific validation of a healing revolution, Prof. supplement. Vol. 2. Vision Publications, Southfield, MI 48034, 2002.

Davidson JD, Abercrombie H, Nitschke JB, Putnam K. Regional brain function, emotion and disorders of emotion. *Current Opinion in Neurobiology* 1999; 9:228-34.

Kawano Kimiko 1, Kushita Kouhei N 2. The Function of the Brain using EEGs during Induced Meditation. *J Intl Soc Life Info Science* 1996; 14(1):91-3.

Lama Dalai, Goleman Daniel. *Destructive Emotions, how can we overcome them?* New York, NY: Bantam Books, 2003.

Reuther I, Aldridge D. Treatment of bronchial asthma with qigong Yangsheng—A pilot study. *J Altern Complement Med* 1998; 4(2):173-83.

Sancier KM. The effect of qigong on therapeutic balancing measured by electroacupuncture according to Voll (EAV): A preliminary study. *Acupunct Electrother Res* 1994; 19(2/3):119-27.

Sancier KM. Anti-Aging Benefits of Qigong. *J Intl Soc Life Info Science* 1996a; 14(1):12-21.

Sancier KM . Medical applications of qigong. *Altern Ther Health Med* 1996b; 1(4).

- Sancier KM. Therapeutic Benefits of Qigong Exercises in Combination with Drugs. *J Altern Complement Med* 1999; 5(4):383-9.
- Sancier KM. Qigong and neurologic illness. Weintraub M. *Complementary and alternative medicine for neurologic illness*. St. Louis, Missouri: Harcourt Health Sciences, 2000.
- Sancier KM. Qigong database. *Adv Mind Body Med* 2000; 16(3):159.
- Sancier KM, Hu B. Medical applications of qigong and emitted qi on humans, animals, cell cultures & plants: review of selected scientific research. *Am J. Acupuncture* 1991; 19(4):367-77.
- Wang CX, Xu DH. [The beneficial effect of qigong on the ventricular function and microcirculation in deficiency of heart-energy hypertensive patients]. *Chung Hsi I Chieh Ho Tsa Chih* 1991; 11(11):659-60.
- Wang CX, Xu DH. [Effect of qigong on plasma coagulation fibrinolysis indices of hypertensive patients with blood stasis]. *Chung Kuo Chung Hsi I Chieh Ho Tsa Chih* 1993; 13(7):415-6.
- Wang CX, Xu DH, Qian YC . Effect of qigong on heart-qi deficiency and blood stasis type of hypertension and its mechanism. *Chung Kuo Chung Hsi I Chieh Ho Tsa Chih* 1995; 15(8):454-8.
- Yamamoto M 1, Hirasawa M 1, Kokubo H 1, Sakaida H 1, Kimiko Kawano K 2 1. Study on Analyzing Methods of Human Body Functions Using Various Simultaneous Measurements(VSM) -The Second Year Report of the 5-Year-Project Supported by Science and Technology Agency(STA), Japan-. *J Intl Soc Life Info Science* 1997; 15(2):2.