Dear Spring 2023 Tai Chi Participants,

Welcome!

Tai ji and qigong teach you how to reduce stress and increase agency (personal power and integrity) in all aspects of your life. This class will introduce you to the physical intellectual, and psychospiritual aspects of these ancient arts. Our emphasis is on cultivating the union of breath and vital energy (qi or ch'i—“chee”) in coordination with flowing, rhythmic muscular movements that will carry into all your activities and endeavors.

Format: Journal Club (see next page)
- Opening meditation
- Silk-reeling qigong
- Guo Lin and Shaolin gong fu walking
- Tai Ji Ch’ai Ch’i set with Chen, Yang, and Sun style movements

Resources: The recommended reference is the Harvard Medical School Guide to Tai Chi, which includes tai ji history, by Peter Wayne and Mark Fuerst available at or through Kepler’s Books https://www.keplers.com/ in Menlo Park. Please support your local independent bookstore!

The set that we learn in class is an evolved version of that seen in the 4’44” teaching video at https://youtu.be/NXJWgnZSI-s You are encouraged to use this video as a practice aid.

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In keeping with the intellectual and academic mission of Stanford Medical School, “Medical” Tai Chi includes the study of the peer-reviewed literature on the health benefits of tai ji and qigong. To receive credit for the course, students are required to attend the majority of journal club sessions and present an article of their choice in its 4:30-5:00 slot, preceding the practice portion of the class. Articles can be drawn from Dr. Kane’s archives of popular studies from previous years or from searching the National Library of Medicine’s PubMed database of world medical literature.

We will first learn the gold-standard methodological criteria for medical research and alternative methodologies that are more appropriate for tai ji. Studies will be evaluated on those bases.

We will develop a critical approach to gold-standard medical research and to phenomenological models. This reasoning applies to all historical and contemporary research and health claims, such as injecting bleach to treat covid.
Chapter 1: Introduction—A Tai Ji POV

Taiji (anglicized to “tai chi”—see Appendix) has a long and controverted history, as documented in Wikipedia [https://en.wikipedia.org/wiki/Tai_ch#History](https://en.wikipedia.org/wiki/Tai_ch#History) and in our text for the course, *The Harvard Medical School Guide to Tai Chi*. Various sources vie for establishing the origins of tai ji in the 12th or the 17th century, with roots in military training and in philosophical movements such as Confucianism and Buddhism.

Qigong is provably older than tai ji, deriving from shamanistic practices an estimated 5,000 years ago. (See Chapter 7, Qigong.) Qigong breathing and energy practices inform all tai ji styles. It is said, “You can have qigong without tai ji, but you cannot have tai ji without qigong.”

From the middle ages until the early twentieth century, the secret sauces of tai ji were zealously guarded in a few founding families such as Chen, Yang, Sun, and Wu. Originally, only direct disciples of family members were initiated into the teachings. Gradually, the various practices were shared among (or smuggled into) a wider population, although still through appointed, anointed lineage holders. Even today, much prestige and authority accrue to those with pedigrees reaching back to the first families.

While there is something to be said for honoring the rich history and the traditional values, it has been my experience that many schools and masters continue to foster a doctrinaire “lineage correctness.” There is insistence on rigid discipline, allegiance to the master, and a narrow, often anatomically untenable (especially for adult Westerners), interpretation of prescribed movements. Yet present day tai ji has also nicely evolved into a hybrid of martial artistry, moving meditation, aerobic exercise, and dance. Modern
schools offer styles ranging from the Zumba-like, high-energy Flow Tai Chi to more sedate forms and new interpretations such as the ones I have created from my own masters and certifications.

My teaching emphasizes both ancient and modern principles. The form I developed, which I call Ch’ai Ch’i Tai Ji (see http://horsensei.com/chaichitaiji/), is an eclectic mix of traditional tai ji, Reiki, sports medicine, and new physics cosmology. These are its principles:

• **Your own body is your authority and guide.** Tai ji is often taught by those who learned it in early childhood in China. Your body will not be able to duplicate the postures and energy dynamics of these masters. Your body will not look or act like mine or like any other body in class.

• **Coordinated breathing is more important than correctness of form.** Traditional tai ji instruction insists on picture-perfect, correct movements. In my classes, form follows function. We learn coordinated breathing and muscle motion in the simplest gesture of Open and Close, then we add more complex forms.

• **Safety first.** Many forms, when performed in traditional ways, put us at risk for injuries to knees, hips, back, and ankles. I will always offer modified forms that protect joints and muscles. However, for all movements, listen to your body!

• **Yin and yang theory and the Dao.** The Daoist philosophy of yin and yang, and the oneness of all things, informs tai ji and its application to everything in life. The yang of inhaling and the yin of exhaling underlies every living moment until we breathe no more.

• **Dan tien theory.** The dan tien energy center in the lower abdomen is both a symbolic and a physiological center of one’s agency and integrity. See Chapter 4, Dan Tien.

• **Life as a tai ji form.** Everything you do can be performed as a qigong or tai ji movement. When you can conduct every action and non-action with yin-yang dan tien breathing, you will have achieved ideal balance and harmony.

*Photo: Dr. Bev and Basia. Parting the Wild Horse’s Mane*

*Photo credit: Ruben Kleiman*
Chapter 2: Energy

In tai ji, we emphasize the cultivation of ch’i, a form of bioenergy. We will use the word energy as shorthand for the somewhat mysterious notion of ch’i (also spelled qi and pronounced chee), the Chinese word that is often translated as life force. Ch’i, ki and reiki (Japanese), prana and kundalini (Sanskrit), are terms used in the martial, healing, and meditative arts to refer to a force that is not measurable in the way that physical energies such as electricity, gravity, and calories are measurable.

Ch’i may be sensed as heat, pressure or weight, light, colors, itching, or tingling. These sensations represent transformations of ch’i into physical qualities rather than ch’i itself.

Analogously, we can see the electrical changes that thoughts produce on the EEG (electroencephalogram). We can see the electrical changes that love produces on the electrocardiogram—an elevated heart rate, a “skipped” beat (premature contraction). But these effects are not the thought or the love.

The National Center for Complementary and Integrative Health (previously called the National Center for Complementary and Alternative Medicine), one of 27 agencies that make up the U.S. National Institutes of Health, has validated qigong as a modality of energy medicine. The NCCAM recognized two types of energy, veritable, which can be measured, like heat and electricity, and putative, including ch’i, which has not yet been measurable.

Ch’i creates internal conditions that we describe in energetic terms. Some days we have good energy, some days nervous energy, and some days we are low energy, though physicists would be at a loss to measure these quantities. When the needle on our energy gauge is hovering around Empty, we may resort to flogging our bodies with foreign substances. We toss down sugary, caffeinated “energy” drinks like Monster, Kickstart, and Starbucks Doubleshot. On the other side of Alice’s mushroom are beverages marketed as “anti-energy,” “chill out,” or “relaxation” drinks. These preparations contain calm-down chemicals such as gamma-aminobutyric acid (GABA), melatonin, and California poppy. In the yin and yang of imbibed ch’i
manipulation, you can produce your desired energy state with your choice of archetypal bovine—Red Bull® or Slow Cow™.

The Dao—Emptiness before Energy

In Taoist cosmology, the universe first existed in a state of nothingness or “undifferentiated wholeness”—the Dao (“dow,” also spelled Tao). Many philosophies and religions tell the same story of a primordial condition of no actualities and infinite possibilities. In the Hebrew Kabbalah, the Great Nothingness is called the Ain Sof (No Thing). In Greek mythology, this state was called Chaos. In theistic terms, the Dao can be imagined as the mind of God before the Creation.

Another name for the Dao is the wu ji, literally “no pole,” the formless infinite, represented by the empty circle on the left. From the unformed, unpolarized wu ji came the tai ji, the “great pole-arity,” represented by the yin-yang diagram on the right. (See also the Appendix, Chi, Ch’i, Ji, and Qi.)

With polarization came the emergence of energy and substance and their differentiation into opposites, like the north and south poles of a magnet. These opposites, yin and yang, are associated respectively with complementary qualities such as cold and hot, dark and light, wet and dry, contraction and expansion, feminine and masculine. Ch’i is the organizing principle within the Dao that directed the Nothingness to form the Somethingness that in turn differentiates into yin and yang. The equivalent astrophysical event is the Big Bang.

The concept of the wu ji is important in our tai ji and qigong exercises. Frequently throughout the forms, we assume wu ji position, a relaxed upright stance. Breathing deeply and slowly in this position, we return to the primordial condition of emptiness and unity with all things. In the wu ji posture, we somaticize (express through the body) the state of no contrasts, no conflicts, and complete harmony.

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1 The ji in t’ai ji (usually spelled tai chi) is not ch’i or chi—confusing!
2 Note that feminine and masculine do not refer to gender in biological terms like male and female, man and woman, but to opposite behavioral qualities such as aggression/passivity, loudness/softness, etc.
The Interface of Ch’i and Breath

The often-elusive ch’i is most accessible through the simple process of breathing and observing, fully sensing, the breath. In the beginning, it is easier to feel breath and imagine ch’i. At first, you will feel your breath, and ch’i, simply as the air that goes in and out of your mouth and nose. Gradually, you will learn to imagine, and then feel, breath filling the lungs and every part of the body. Breathing like this may create a sense of heat, light, tingling, or other sensations. Now you are sensing ch’i. (See also Chapter 5, The Yin and Yang of Breathing.)

In all somatic arts and athletic activities, and in activities of daily living, proper breathing produces an unimpeded flow of ch’i. Sending breath and ch’i into the furthest out and innermost reaches of your body allows you to relax when you’re tense or over-stimulated, energizes you when you need a lift, and makes your moods less extreme, more balanced. Breathing “into” tight muscles is cleansing and invigorating like wind blowing through freshly washed sheets on a clothesline. Invigoration is the yang to the yin of relaxation. Both are important for stress reduction and emotional self-regulation.

Tai Ji and the New Physics

With the arrival of quantum mechanics, many physicists in the mid-twentieth century noted the parallels between the mysteries and paradoxes of the sub-atomic world and the mysteries and paradoxes of pan-theistic mysticism. Suddenly the ephemeral world of the Tao modeled the ephemeral world of the wavicle and vice versa. Many books have been written in the ensuing years about the connections between quantum theory and the ideas of Buddhism, Hinduism, and Taoism, but UC Berkeley physicist Fritjof Capra’s The Tao of Physics has stood the test of time as the foundation text.
Ch’i

Stress is ch’i
Emotions of
anger, grief, fear, guilt,
love, joy, peace, gratitude
are ch’i

First learn to sense ch’i
then to direct ch’i
to healing and happiness
Chapter 3: Ch’i and Reiki Compared

In 1975, while a medical student, I began to practice sitting meditation. I especially worked at meditating without thinking about dinner, spring break, or romance. But it was somewhere between boring and impossible to sit still, watch my breath, and empty my mind.

Many years later, I was delighted to discover moving meditation in the form of tai ji and kung fu.

Then, in the Year of the Horse 2014, I suffered ill effects from improper use of ch’i after overexerting myself in kung fu: several times a day, I had been practicing the strenuous Small Red Fist form in hopes of making the Shaolin team for the San Francisco Chinese New Year parade.

As someone who has always had what Traditional Chinese Medicine (TCM) calls excess head ch’i—an intensely active mind, frequent headaches, dental and ophthalmic issues, and wild, frizzy hair—the excess ch’i from overzealous practice went straight to my head. Thus, in bed one night around 3:00 a.m., while mentally rehearsing my kung fu audition, I rolled over and felt the room spin violently. My medical knowledge and objectivity were lost in the throes of half-asleep panic.

What is happening to me?!

In Western medical terms, I was experiencing a classic attack of benign paroxysmal positional vertigo, attributed to displacement of small crystals in the inner ear. In TCM, this symptom is a rare pathological extreme of the normal ch’i awakening of 搖風擺柳 Flowing Breeze, Swaying Willow.

In the years following the initial attack, I have had a few milder episodes. (I prefer to call them episodes rather than attacks. It’s not psychologically healthy to think the body is assaultng us, as in a heart “attack.”) In between episodes, I had lingering sensations of movement, like ocean waves, in my head. Acupuncture, medical qigong, the Stanford neurology and vestibular physical therapy clinics, low-impact jogging, and outdoor activities with horses have

Adapted from Equine-imity—Stress Reduction and Emotional Self-Regulation in the Company of Horses by Beverley Kane, MD
helped enormously. On a good day, I reckoned I was 88 percent back to normal. However, I was on a quest to be symptom free.¹

Enter Reiki

Reiki Principles

Just for today,
do not anger,
do not worry.
Be filled with gratitude
Be honest in your work
and be kind to everyone.

—Mikao Usui, Reiki Founder

I had been peripherally aware of Reiki for thirty years. It was on my list of Things Probably Too Vague or Far-Fetched to Relate To.

Then just when I was looking to leave no stone unturned in my quest for complete resolution of vertigo, I received a notice about a Reiki attunement with our animal communicator and gifted healer, Nancy Windheart. Attunement is the teaching of, blessing for, and initiation into Reiki.

Reiki was developed in 1922 by Japanese Zen Buddhist monk Mikao Usui. In addition to practicing Buddhism, Usui is also reported to have been influenced by Christian studies; one version of his story says he took ordination as a Protestant minister. Reiki has since been passed down through many lineages all over the world. In sharing Reiki, the practitioner draws ki (“kee”) to herself and then may send it on to another person or animal, or to situations like wars and hurricanes, for healing. The uppermost ideogram of the three Chinese words at the top of this chapter is the character for the rei of reiki. The bottom of the rei character contains

¹ I have since regained near normality with the addition of craniosacral therapy, which has proven the ear-crystal model incorrect, or at least not the full story, in my case.
the character meaning wu shaman 巫. Above that, there are three small squares that each mean kou, a mouth. ☐ ☐ ☐. They seem related to the ch’i gulping seen on the ancient pottery at the beginning of Chapter 7, Qigong.

Rei (“ray”) is translated as spirit, and ki is the same as ch’i. So reiki is spiritual energy. The practice of Reiki is akin to the laying on of hands with prayer. Although there are no gold-standard medical studies proving the efficacy of Reiki in healing, there are many anecdotal reports of beneficial effects. (There are a few studies showing the efficacy of intercessory prayer. (See Byrd, Reference 1 and Dossey, Reference 5.)

When I received my Reiki Level 1 attunement, I was blown away by the difference between how I sensed reiki compared with how I had always sensed ch’i.² The nature of ch’i is taught, and feels to me, as inert, unconscious, unfeeling, finite, and exhaustible when used for martial arts and moving meditation. The nature of reiki for healing is taught, and feels to me, as alive, sentient, compassionate, and infinitely flowing through the body, never to be depleted. With self-reiki and reiki from a massage therapist directed at my vertigo, I felt better than at any time since the symptoms began.

Now more than forty years into my personal evolution, I practice and teach qigong and tai ji as a synthesis of these two powerful traditions, Chinese and Japanese, in mindfulness, moving meditation, energy cultivation, and healing. As I thought about how to integrate all I have learned, I created this comparison of the ch’i of qigong, tai ji, kung fu, and aikido on one hand and reiki, literally, on the other (two) hands. My practice of tai ji and qigong now includes the gathering and circulation of reiki and sharing reiki with horses.

Ten Points of Comparison of Ch’i and Reiki

² I use Reiki, capital “R,” to mean the lineage-based practice and reiki, small “r,” to mean the energy itself.
1. Ch’i is unconscious, impersonal, value-free, and emotionally neutral. There is no feeling that one is engaged with a sentient being. Ch’i can be cultivated for spiritual enlightenment, but is not itself spiritually enlightened.

Reiki is conscious and sentient. It has wisdom, compassion, ethics, healing intent, and grace. Some view it as a God-like essence, archangel, or Divine Love.

2. Ch’i is infinite throughout the universe but finite when downloaded to the human body. It can be depleted from one’s energy centers with overuse or improper use in advanced practices. The tai ji or qigong practitioner is like a battery storing and discharging electricity. The battery must be constantly recharged.

Reiki energy is infinite throughout the universe and in the human body. It flows to and through the practitioner, and even when emitted from a person’s energy centers, can never be depleted. The Reiki practitioner is like a garden hose channeling water or a water wheel using some energy for its mill and passing the rest on down the river.

3. With emitted qi therapy (EQT), the healer sends out her own ch’i and not, directly, universal ch’i. (See Korahais, Reference 7.)

In Reiki healing, the Reiki practitioner transmits the infinite, universal reiki. We say we are “sharing” reiki, not “giving” reiki.

4. Ch’i used in EQT is directed by the intentions of the healer’s ego to cure or fix a person according to the healer’s value system, prejudices, biases, and assumptions.

The reiki used in healing is self-directing for the higher good of the recipient. The ego and wishes of the Reiki practitioner do not enter into
where or how the energy will be used. The Reiki practitioner cultivates an attitude of “Let go and let God.”

5. Ch’i can be used in hand-to-hand combat and to throw or defeat an opponent at a distance.

Reiki always does good, can never be used to oppose, fight, or harm.

6. Extreme overexertion during martial practices can cause significant mental or physical problems. Improperly performed EQT can drain the practitioner and make her ill.

Reiki is self-regulating and self-replenishing. It cannot be overused, nor can its use cause illness in the practitioner.

7. Tai ji and qigong practices are done mostly upright, with locomotion of the whole body in patterned forms.

Reiki practice is done lying, sitting, or standing, with small hand gestures and sometimes movement around a treatment table, but no patterned locomotion.

8. In tai ji and qigong, locomotion and in-place limb movements are coordinated with the breath to augment the amount and quality of ch’i.

Reiki gestures are not typically taught in coordination with the breath.

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3 The Western medical practitioner aims to cure the disease; the Traditional Eastern Medicine practitioner aims to cure the person; the Reiki practitioner aims simply to transmit Divine Love.

4 The chance of experiencing the ill effects I described earlier is effectively zero for the beginning practitioner.
9. Tai ji and qigong have long traditions of study and training. Practitioners, teachers, and healers spend several years, even decades, learning to become proficient at the master level. Tai ji includes competitions, standardization of styles, and oversight by international regulating bodies.

Although rooted in Buddhism, Reiki is a modern tradition. Students are often attuned in weekend courses and set out at once to become practitioners. There are no competitions or inter-lineage regulating bodies and no universally accepted standards.

10. Hundreds of credible, peer-reviewed medical studies, some gold standard, have proven the efficacy of tai ji and qigong in healing cancer, arthritis, depression, anxiety, balance impairment, diabetes, high blood pressure, Parkinson’s disease, back pain, and other conditions.

There is no body of gold-standard medical studies conclusively proving the efficacy of Reiki.

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5 The gold standard for medical research includes criteria for a study design that is prospective, randomized, objective, quantitative, and long term. Such a study has control groups and enough subjects in all groups to test for the statistical significance of differences between the groups and for the strength of the results.
Qigong, tai ji, and Reiki are complementary to each other. Qigong and tai ji excel in whole-body coordination of movement, breath, balance, grounding, and energy cultivation. Tai ji can additionally be more active—even explosive—and vigorous. Reiki excels in quiet meditation, the transmission of wisdom and compassion, and the self-replenishing flow of energy for healing. Reiki also emphasizes receiving and transmitting love and gratitude.

Think of the heart. It is both a physical and a metaphysical organ. As a physical organ, it generates electricity. As a metaphysical organ, it generates love. Ch'i is more like the electricity of the heart. Reiki is more like the love.

**Reiki and Ch’i in Qigong and Tai Ji**

In each person’s individual practice, there might not be a felt distinction between ch’i and reiki. In my practices, I feel ch’i primarily as a force within the body and reiki as primarily received from all across the universe. Both forms of energy circulate inside and outside of us. To get the best of both worlds:

1. Imagine reiki as a loving intelligence that comes from the outside in and cannot be depleted.

Adapted from *Equine-imity—Stress Reduction and Emotional Self-Regulation in the Company of Horses* by Beverley Kane, MD
2. Imagine ch’i as energy that originates in your body, mainly from the lower dan tien.

3. Coordinate your intake and circulation of both reiki and ch’i with movement and breath.

4. Do not be concerned with whether the energies are coming from or going to the right places. Trust that they will direct and cultivate themselves in your body in the way that is optimal for you.

5. Imagine feeling the flow of wise, compassionate, and healing reiki between you and others.

References

1. Byrd RC. Positive therapeutic effects of intercessory prayer in a coronary care unit population. Southern Medical Journal. 1988;81 (7):826–9. Randy was a brilliant, compassionate, and highly ethical Cardiology Fellow at (Zuckerberg) San Francisco General Hospital when I was a Family Medicine Resident there.

2. Catherine Calhoun, L.Ac. Medical Qigong and Reiki
   http://blog.aoma.edu/Energy-Medicine-Medical-Qigong-and-Reiki

   https://www.youtube.com/watch?v=yD2vuNS9yk&ab_channel=JackyChan
   http://www.taichiqigongreikicentre.com.au


Adapted from Equine-Imity—Stress Reduction and Emotional Self-Regulation in the Company of Horses by Beverley Kane, MD


Chapter 4: The Dan Tien – the Central Bank of Ch’i

People spend years searching for the dan tian, but never find it. Many give up, convinced that the dan tian is either mystical mumbo jumbo, or a metaphor. I was one of them. For years, I was thinking, “Where in the world is the dantian?” Even after I met [my Master] and learned the real secrets of energy cultivation, and practiced for a few years, I still didn’t feel anything.

—Sifu Anthony Korahais, T’ai Ji and Qigong Master

On a Sunday morning in October of 2013, the Shaolin Cultural Exposition at the Los Angeles Convention Center was literally a 24-ring circus. A flurry of unarmed martial artists, as well as those wielding swords, staffs, and whips, whirled around in twenty-four 15-foot squares. Standing with me just outside the masking tape perimeter of Box TC106 was my qigong classmate, George Liu. At age 77, George had the strength, flexibility, and stamina of someone 30 years younger. Using emitted ch’i from his hands, George had been a lay practitioner of medical qigong until his wife complained of getting telepathic headaches during his sessions with clients.

Inside Box TC106, men and women of all ages, wearing classic Oriental silk pajama-style attire, took turns competing in a 106-form tai ji set. Given their closely matched demeanors of intense concentration and deftly executed movements, it was hard to predict the winner. I asked George, who has been practicing these arts since his boyhood in China, “How can you tell who is the best?”

He replied, “Best ones, they have ch’i that make my dan tien feel purr like cat.”

Ch’i is concentrated in three main centers called upper, middle, and lower dan tien (dahn t’yen). The lower dan tien is the main store of energy for directing physical motion. In martial arts and in Traditional Chinese Medicine, when ch’i is emitted from combatants or healers, sensitive bystanders may describe sensations received in their own bodies. Purring or humming perceived in one’s lower dan tien from emitted ch’i is called
chang ming 腸鳴, chang meaning intestine and ming being the vibration made by a flying beetle in summer. At the L.A. Exposition, the only two artists who thrummed my dan tien did indeed win gold medals.

Dan tien means cinnabar, or elixir, field. “Field” refers to a geographical field, like a pasture, rather than an energy field. Cinnabar has the chemical formula HgS, mercury sulfide. In Taoist alchemy, mercury is the quintessential yang, masculine element. Sulfur is the corresponding yin, feminine element. The combination of mercury and sulfur in cinnabar, which was used as a medicinal elixir, represents the unification of yin and yang in the One, the Dao. Both Eastern and Western alchemy used physical processes, such as turning quicksilver into gold, to represent spiritual transformation. The dan tien elixir fields, therefore, are not just the anatomical or energetic hearths of the body, but the corporal seat of the immortal soul.

In qigong practice, energy manipulations in the dan tien are used to repatriate us to the wu ji, the Original Wholeness that some religions call, and may require death to achieve, the return to the Godhead. (As cinnabar is extremely toxic, its administration as a medicinal tonic often did send poisoned patients to the Godhead!)

In our qigong practice, as in most martial, healing, and meditative arts, we will use dan tien to refer to the lower dan tien as shown in the drawing. This dan tien corresponds to the core in Pilates and the swadhisthana chakra in yoga. It is the foundation of energy, balance, and agency—your personal power. Imagine or feel your dan tien by placing two fingers flat on the skin below your navel. Imagine a ball of energy that starts at your lower finger and fills your whole abdomen and lower back. Think of the dan tien as a battery that feeds many strings of holiday lights—the acupuncture points in channels running up and down the body. Further imagine the ch’i lighting up all of your 37 trillion cells.
Tai ji, qigong, yoga and other moving meditation practices come down to one principle: the coordination of muscle activity (and at more advanced levels, the flow of ch’i) with breathing. All our bodily motions can be reduced to small movements synchronized with the breath. Deep, rhythmic breathing restores the balance we lose when daily demands push and pull us out of alignment with our inner selves.

In Daoist philosophy, balance is depicted in the black and white swirls of the tai ji tuo. The feminine yin principle in the black swirl is instinctive, soft, slow, receptive, passive, yielding, receding, contracting, in-facing, ethereal, diffuse, cold, wet, and dark. The masculine yang principle in the white swirl is rational, hard, fast, generative, active, projectile, advancing, expanding, out-going, solid, concentrated, hot, dry, and light. The terms masculine and feminine do not differentiate men from women, or males from females of any species, but describe polarities existing, or in potentia, at various times in all beings, all along the gender continuum, and in all phenomena.

Yin and yang arose when the wu ji differentiated into the tai ji. (See Chapter 6, Postures and Gestures, and the Appendix, Ch’i, Ji, and Qi.) The moment of separation corresponds to when the Judeo-Christian God commanded, “Let there be light,” bringing alternating day and night out of the Timelessness. Yin and yang complement and transform into each other: as in Newton’s Third Law of physics, every action results in an equal and opposite reaction. Yin and yang are always in a state of dynamic balance, each gaining and yielding ascendancy to the other, like the ocean-sand boundary shifting as the tide goes in and out. Opposites changing into one another is the meaning of the black dot in the white swirl and the white dot in the black swirl.

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1 Pronounced “twah,” “Diagram.”
Inhaling and exhaling give us a direct way to sense yin and yang. Inhalation is the receiving yin. Exhalation is the projecting yang. The act of filling and emptying the lungs restores the dynamic balance of cycles in our bodies and in our work-life, sleep-wake, give-take, rest-exertion, smile-frown polarities.

Our Medical Tai Chi opening meditation teaches simple gestures with synchronized breathing as the basis for the tai ji forms. The forms in turn are the foundation for creating physical and emotional balance in every state of activity or inactivity in daily life. Simple gestures like the Earth and Sky Cleanse and Open & Close are fundamental to every other action we take in tai ji and throughout the day. You will notice these gestures as the appear in our silk reeling and in the tai ji forms. When you can conduct every sequence of movements you perform in the course of your life as a variation of Open and Close, you will be in a state of peace, balance, and harmony.
Chapter 6: Postures and Gestures

The Wu Ji Position—Standing in Emptiness, Nothingness, and Peace

The *wu ji* is the great emptiness. It is the original state of the universe and the end state of the bodymind sought in spiritual enlightenment—or at least in the reduction of everyday stress. In the *wu ji* position, we empty ourselves of mental distractions and dismiss for the moment intrusive body sensations.

The posture for the *wu ji* position is upright and relaxed. In the *wu ji* posture, there is no effort and no tension. Imagine you are sunflower growing up toward heaven and then a string of pearls hanging from the sky. Or feel yourself as a grape suspended in a Jell-O mold. Spine is stretched up and tall. Shoulders are relaxed, drawn down by the weight of your arms. Arms hang loosely by your sides. Knees are soft. Do not lock your knees. You can bend them slightly, or simply unlock them. Your spine is elongated so that the *ming men*, the life gate in the small of your back, feels stretched and open. Your buttocks are tucked in, not sticking out in a sway-backed frame. Stand barefoot or in flat heels. The higher the heels of your shoes, the harder it is to have soft knees while keeping your back straight.

To get a feel for where your buttocks and spine should be in relation to each other, stand in *wu ji* position with your back almost flat against a wall. There will be a slight opening in the small of your back, just enough to slip your fingers through. Shoulders, buttocks, and heels should touch the wall.

Feel yourself firmly connected to the ground through the bubbling springs energy centers in the soles of your feet. The more you focus on where your feet touch the ground below your soft knees, the less top heavy you will feel from an overactive mind and a heavy heart. If you have a distracting thought or negative emotion, send it through your bubbling spring centers into the center of the earth. This technique is called *grounding*.

We will return to the *wu ji* posture several times during silk reeling.
The Tai Ji
From the undifferentiated universe of the wu ji, we enter the tai ji, where differentiated, opposing forces emerge—yin and yang, dark and light, hot and cold, inhaling and exhaling. In the Judeo-Christian Biblical terms, the tai ji emerged when God said, “Let there be light.” All cultures and religions have similar creation myths.

To go into the tai ji somatically (with the body), use the inhalation and exhalation of dan tien breathing, inhaling deep into the belly and exhaling through the bubbling springs points, setting up a smooth, rhythmic circulation of breath and ch’i between your dan tien, feet, and the earth. (See also Chapter 4, The Dan Tien, and Chapter 5, The Yin and Yang of Breathing.)

The Earth and Sky Reiki Cleanse
The earth and sky cleanse is the most basic gesture in learning to coordinate breathing with muscle motion. Think of it as making a snow angel standing up. With its round, continuous, sweeping motion, imagine you are gathering reiki or ch’i from the earth, and then from the sky.¹ You are cleansing your mind and body with it, then draining the wash “water” back into the ground through your feet. Imagine that anything you wash from your bodymind gets taken up by the earth and transformed, like fertilizer for flowers.

¹ Chapter 3 describes some differences between ch’i and reiki. You are free to imagine and sense either or both flowing to and through you.

1. Start in the wu ji position, arms at your sides.
2. Imagine you are drawing earth reiki or ch’i up into your hands.
3. As you inhale, sweep your arms out to your sides, elbows soft. Keep sweeping them to just above your head. Palms are facing up, gathering ch’i from the sky as you sweep.
4. When your hands are directly overhead, the palms face each other for a moment before pushing downward.
5. As you exhale, bend your forearms, face your palms down, and push the reiki or ch’i down to your dan tien.
6. In the same exhalation, continue pushing the reiki or ch’i down the front of your thighs, and out through the bubbling spring centers, into the earth, until your arms are hanging down again in wu ji position.
7. Repeat these circular sweeps a few times until you feel refreshed and relaxed.

Open and Close

Open and close is a basic movement in many classical qigong, tai ji, and kung fu forms. It is the simplest way to learn to experience reiki and ch’i and to coordinate muscle motion with breathing and energy flow.

We imagine taking the sun down from the sky and holding it like a ball in gassho/anjali mudra at heart level (See next section.) We imagine being unable to contain the little sun as it charges up the lao gong (“palace of labor”) energy centers in the palms of the hand and expands outwards until it pushes our hands to shoulder width. We then push the energy back into a dense ball.

When the ball expands, we inhale. When we press the ball into higher density, we exhale. The palms of the hands may become warm and tingly as we perform multiple cycles of opening and closing.

Open and close is a wonderful gesture to use as a reset button to return to a state of calmness. It can be performed throughout the day, lying down, sitting, or standing up.

Gassho

Pressing the palms together in prayer or greeting is common in many religions and cultures. In yoga practice, this hand position (mudra) is called the anjali (AHN-jah-lee) mudra, often accompanied by the Hindi word
namaste. The gesture and the greeting mean, “the Divine in me embraces the Divine in you.”

In Reiki practice, this gesture is called gassho (gah-show), which simply means “hands together.” Gassho clears the mind, opens the heart, and strengthens the reiki energy.

In performing the Open and Close gesture, we concentrate reiki or ch’i in the lao gong energy centers in the palms of the hands. We begin in gassho, “charging” up the hands with energy. The palms may feel warm and tingly. In using Open and Close to reduce stress, we also engage in an act of compassion and healing for ourselves and others.

**Shi De Yang**, one of the most venerated Shaolin masters alive today, explains this gesture as a way to gather and emit ch’i, which we further characterize as *ling ch’i* or *reiki* (spiritual energy). Master Yang says, “First I raise [my hands] slowly [overhead]. I gather all the air in the centers of both palms and bring them together above the head, like holding a ball. Compress the ball [until the hands meet] and put it in front of the chest. Exhale dispassionately.” He is essentially performing the Earth and Sky cleanse, ending in gassho.

“This is not qigong as it is described, nor is it simply the greeting of Buddhism. It is really a way of gathering the ch’i in nature. I use it to give health to others and to all of you. Its most important sense is to give the ch’i in our body to others.”

[https://www.youtube.com/watch?v=2KevHM5oJ2k](https://www.youtube.com/watch?v=2KevHM5oJ2k) @ 4:00
Chapter 7: Qigong

Most people believe that physicists are explaining the world. Some physicists even believe that, but the Wu Li Masters know that they are only dancing with it.

Gary Zukav, Dancing Wu Li Masters

You can do qigong without tai ji but you cannot do tai ji without qigong.

Master Alex Feng, PhD, OMD

The silk reeling exercises we learn in Medical Tai Chi are traditional qigong (“chee goong”) movements. Qigong is a moving meditation developed in China thousands of years ago as a health practice. It became, and still is, the basis of tai ji and kung fu, which were created as martial arts to perfect skills for combat.

Archeological evidence supports the claim that the origins of qigong lie in the shamanic dances depicted in this vase from the Yang Shao culture of Northern China, 5,000-3,000 BCE. The late archeologist Kwang-chih Chang saw in its raised figure a hermaphroditic wu priest-shaman¹ Later observers interpreted the figure to be in a posture of qigong with ch’i gulping evidenced by the gaping mouth. Tradition

¹ The Chinese word wu 巫, spirit medium, shaman, sorcerer, or doctor, was first recorded in 1600 BCE. This word is found in the character for reiki at the top of Chapter 3.
says that the wu shamans choreographed qigong by imitating the self-healing behaviors of animals.

Several styles of qigong derive from the animal-like dances of China’s wu li shamans of the 5th century BCE. Twenty-first century qigong retains elements of shamanism, Taoism, Confucianism, and Buddhism synthesized and syncretized with each practitioner’s original interpretations. Like the philosophies themselves, each style of qigong varies in intent and emphasis, from meditative to medical to mortality-defying. The purpose of medical qigong, and a side effect of all styles, is to improve health, prevent and cure disease, support healthy aging, and promote longevity. In its most transcendental form as a spiritual practice, qigong seeks to effect the harmonious integration of the human body and soul with the Universe and its consciousness.

Modern qigong remains a health practice characterized by rhythmic motions coordinated with deep, slow breathing. Medical qigong is used to treat, adjunctively or by itself, many conditions, including heart disease, diabetes, arthritis, pain, cancer, and mental illness. The Guo Lin walking that we learn in Medical Tai Chi, along with Five Animals qigong, has been proven effective in cancer therapy at Beijing Miyun Capital Tumor Hospital, Beijing University of Chinese Medicine, and other medical centers in China and the U.S. Studies show that cancer patients who practice qigong have less depression, more social interaction, increased appetite, decreased pain, longer survival, and even higher remission rates when qigong is used alone or integrated with radiation and chemotherapy.

According to Chinese government health administration statistics, in parks across China, more than 100 million people congregate to practice qigong. In 2005, the National Center for Complementary and Integrative Health, one of 27 agencies that make up the National Institutes of Health, validated qigong as a modality of energy medicine.

Qigong can be performed standing, sitting, or lying down. You are free to try any of these positions in class.
**Silk Reeling**

Silk reeling exercises are qigong forms used to practice the basics of circulating ch’i and reiki. They consist of simple gestures to coordinate breathing and muscle movement. Breath is both a source and expression of ch’i and reiki, as oxygen creates energy in our cells. We use silk reeling motions to extend and retract limbs, expand and contract the torso, and shift weight side to side and forward and back. The motions are graceful and continuous.

You will recognize many silk reeling gestures in the tai ji forms.

In the ancient craft of silk reeling pictured below, care had to be taken to spool the silk with just the right speed, rhythm, and tension. Too fast, jerky, or tight, the thread breaks. Too loose or slow, the thread tangles.

Ch’i and reiki are like silk as they wind and circulate inside and outside the body.

In your silk reeling practice, imagine winding silk on a spool as you develop your rhythmic breathing, relaxed but firm muscle tone, and flowing ch’i and reiki.
Appendix: Ch’i, Chi, Ji, and Qi – Wu Ji, Tai Ji

Non-Chinese speakers understandably confuse qi, ji, and ch’i. In the fractured (to English speakers) phonetics of the relatively recent pinyin Romanization instituted by the Chinese government in the 1950s, “ch’i,” meaning energy, is spelled “qi” and pronounced “chee.”¹

“Ji” means pole and refers to the pole-less-ness of the wu ji (No polarity—The Great Nothingness) and to the yin-yang masculine-feminine polarities in the tai ji (Great Polarity).

Wu ji, tai ji, and yin and yang are important concepts in Daoist cosmology and in our practice of tai ji. They describe the human body in relation to the origins and spacetime geometries of the universe and to the ch’i that permeates, some say composes, all things. I use ch’i spelling for energy, as it’s easier to pronounce for English speakers when reading it, and the tai ji spelling for our practice.²

Ji means pole, roof, highest point, extreme, earth’s (magnetic) pole, (anode or cathode electrical) pole. Composed of the root word for tree or wood 木.

Wu ji, “no pole,” is the undifferentiated Great Nothingness. In Western cosmological terms, it is the Universe before the Big Bang. In theological terms it is the Mind of God before creation. In tai ji practice, we cultivate ch’i starting in the wu ji posture.

Tai ji is the Ultimate Polarity. In the tai ji, the wu ji becomes differentiated and polarized into yin and yang.

Ch’i means breath, air, or vital energy. The character is composed of the root words for rice 米 and steam 气. In ancient times, ch’i referred to steam rising from a bowl of rice.

¹ In the older Wade-Giles Romanization, chi without the apostrophe is pronounced “ji.”
² The course title Medical Tai Chi is used by the medical school as the more familiar term in English
See the Stanford Medical Tai Chi with Horses video https://www.youtube.com/watch?v=NXJWgnZSI-s for approximate movements. The forms in the video differ from the current set. The set that evolves in class might be different from the steps below.

1. Opening form
2. Pivot to 3:00, Gassho
3. R arm, R leg come through to 12:00 into White Crane
4. Buddha’s Warrior Assistant Pounds Mortar R
5. Lazy About Tying Coat
6. Six Sealing, Four Closing
7. Single Whip
8. Cloud Hands moving L
9. Gather and Punch R, White Crane
10. Gather and Punch L, White Crane
11. Clouds Hands moving R
12. Pivot to 9:00, Gassho
13. L arm, L leg come through to White Crane
14. Buddha’s Warrior Assistant Pounds Mortar L
15. Snake Creeps Down L
16. Parting the Wild Horse’s Mane R
17. Snake Creeps Down R
18. Closing form
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Stanford Medicine and Horsemanship uses the unique psycho-social interactions of horses to teach communication, team work, leadership, and self-care to medical students and healthcare professionals. Stanford Equine-imity is offered as a 4-week workshop and as private appointments for individuals and partners. It uses techniques from qigong, mindfulness meditation, sports medicine, and natural horsemanship to promote psychospiritual growth.

Stanford Medical Tai Chi combines the study of the medical literature on the health benefits of tai ji and qigong with Daoist philosophy, psychospiritual principles, and practice of the forms.

Dr. Kane has studied Traditional Chinese Medicine since 1976 and qigong, Shaolin kung fu, and tai ji since 2009. From 2014 to 2020, she was certified as an instructor with the Tai Chi for Health Institute.

In 2003, she founded her private practice, Horsensei Equine-Assisted Learning & THerapy (HEALTH) http://www.horsensei.com/, which conducts skills-based psycho-social and somato-spiritual self-improvement programs for universities, corporations, professional and community groups. Horsensei’s home venue is Webb Ranch in Portola Valley.


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