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3

Bioelectrical Energy

- Even if we reject the idea of a soul or spirit in the body, looking at live as an energetic process is still valid
- Since all "work" requires energy, healing cannot take place if there is not enough energy to do the "work" of healing
- So, let's briefly examine some concepts about energy

















Joints and EZ Zones

- Cartilage is a gel-like material, so it forms EZ Zones
- Both surfaces of a joint are coated in cartilage
- The hydronium atoms building up on the EZ zones in the joint would prevent the surfaces from touching, creating a very low friction surface

13

15



Energy Levels Affect Health Health can partially be expressed as a measure of how much electrical potential is storied within the tissues ell pH Voltage Tissue Conditio -50 mV 7.88 Acute Inflammation 7.61 -35 mV lormal for kid The storage of energy potential is roughly reflected in the pH of tissues 7.53 7.44 -30 mV If your body "batteries" have a high energy charge you feel alert, refreshed, revitalized, alive, and healthy Normal for ad -25 mV 7.35 -20 mV ubacute 7.26 -15 mV Tired 7.18 -10 mV Sick As levels of stored energy diminish, health diminishes and you feel tired, weak, and sick -5 mV 7.09 Chronic 7.00 0 mV Polarity Shift In order to create healing, there needs to be a higher-than-normal level of energy available 6.83 +20 mV Degenerative +30 mV Cancer occurs 6.48 Table above adapted from Healing is Voltage by Jerry Tenn

14











Water (Yin) and Fire (Yang)

Water or Yin

- Receives and expands
- Aids assimilation
- Aids creation and storage of energy
- Associated with nighttime and winter
- Promotes rest and relaxation
- Aids playfulness, peacefulness and openness
- Promotes softness, gentleness and sensitivity

Fire or Yang
• Contracts and discharges

- Aids eliminationAids breakdown and discharge of
- energy
- Associated with daytime and summer
- Promotes activity and alertness
- Aids work, direction and assertiveness
- Promotes hardness, firmness and self-containment



20

Understanding

- the Fire Element • Fire breaks material down into smaller components, releasing energy (heat and light) in the process
 - Fire is connected to oxidative processes, substances that borrow or "steal" electrons from other substances
 - Fire energy reflects catabolic (breaking down) processes and the discharge of energy
 - Energy creates movement, so all activity is related to the idea of fire

21

19



Discharge is Not Recharge



22

- It is important to recognize that energy discharge is NOT the same as energy storage
- During yang or fire phases (daytime and summer), energy is being discharged, not recharged
- For example, when you're using your cell phone the battery is discharging
- To have more energy available for your phone to use you have to recharge the battery

Fire Herbs

- Would have to stimulate or move energy
- Would move outward rapidly
- Would increase activity in the body
- Primary Herbal Category: Aromatic
- Secondary Herbal Categories
 - PungentFragrant Bitter

Properties of Volatile (Essential) Oils

- Evaporate in the presence heat
- Dissipate rapidly into the air
 Are responsible for the
- fragrance (and much of the taste) of flowers, herbs, and foods
- Don't mix with water
 Stimulate tissues to increase activity



Aromatic Herbs

- Characteristics
- Strong aroma, many are used as seasonings for adding flavor to food
- Constituents Essential or volatile oils
- Energetics: Warming and drying
- Opposite Category: Mucilant
- Major Healing Properties: Carminative, expectorant, decongestant, nervine, sudorific or diaphoretic, digestive stimulant

25





26



27

Pungent Herbs

- Characteristics
 Spicy or hot taste, biting aroma
 Also used as seasonings for food
- Constituents
- Resins
- Allyl-sulphides • Alkamindes
- · Some essential oils (monoterpenes)
- Energetics: Warming and drying
- Opposite Category: Oily
- Healing Properties: Circulatory stimulant, digestive stimulant, expectorant, decongestant, sudorific and diaphoretic, antiseptic, disinfectant

28



Characteristics

Fragrant Bitters

- Bitter taste; bitter aroma (often not pleasant)
- Constituents
- Sesquiterpene lactones and triterpenes • Energetics: Slightly warming and drying
- Opposite Category: Sweet
- Healing Properties: Digestive stimulants, antimicrobial, antiparasitic, detoxifying, may be calming, some are toxic





Fire Herb Summary

- Pungent herbs are more heating with rapid but quickly dissipating effects
- Aromatics are more sustained in their warming effects and often have nervous system properties as well
- Fragrant bitters are less heating and more drying and detoxifying

31





32

















39



40

Water conquers by yielding; it never attacks, and always wins the last battle.

The sage who makes himself as water is distinguished for his humility; he embraces passivity; acts from non-action and conquers the world.

— Lao Tzu

Water is Unique

- Water exists in solid, liquid and gas form at normal earth temperatures
- Most solids get denser and therefore sink in liquids, water is less dense in its solid state so it floats
- Water's boiling point is unusually high so it can store heat
- Water has two poles, positive and negative, so it can dissolve a wide variety chemical substances
- Water is essential to all life
- Our planet surface and our bodies are mostly water





Mucilant Herbs

- Characteristics
- Absorb water and swell
 Soothe, moisten, and cool tissues
 Have nourishing qualities
- Constituents
 Contain mucopolysaccha
- Contain mucopolysaccharides (mucilage and gums)
 Energetics: Cooling and
- moistening
- Opposite category: Aromatic
- Properties: Demulcent, emollient, bulk laxative, soothing, moistening, cooling, absorbent

43

45





44



Characteristics

- Soothe, moisten, and cool tissues
 Have nourishing qualities
- Constituents
 Contain vegetable oils
 (triglycerides)
- (trigiycerides) Energetics: Moistening, cooling and nourishing
- Opposite Category: Pungent
- Healing Properties: Emollient, lubricating, soothing, moistening, cooling, nourishing

Examples of Oily Herbs

- Black current
 Flaxseed
- Hemp seeds
- Borage seeds
 Olives
- Chia seeds
 Pumpkin
- Coconut seeds
 Evening Sunflo
- Evening Sunflower primrose seeds seed



46



Air (Change) and Earth (Stability)

Air (Yin to Yang Shift)

- Shift from absorption to discharge of energy
- Associated with morning and springtime
- Helps to clear congestion, stagnation, stuffiness
- Initiates release and detoxification
 Promotes feelings of release, openness and freedom
- openness and freedom
 Associated with new beginnings, release and forgiveness
- release and forgiveness

Earth (Yang to Yin Shift)

- Shift from discharge to absorption of energy
- Associated with evening and autumn or fall
- Helps to clear emptiness, weakness and malnourishment
 Initiates absorption and
- Initiates absorption and assimilation
- Promotes feelings of desire, connection and connection
- Associated with contemplation, satisfaction and receiving



50





















57

Air

- Would have to help transition from a state of fullness to the process of discharge
- Would have opening, awakening, motivating, and
- energizing properties

 Primary Herbal Category
- Acrid, includes Diffusive
 Secondary Herbal Categories
 Salty
 - Bitter Stimulants







Salty Herbs

- Characteristics
- Slightly salty, grassy or "green" taste (think of celery or spinach) Constituents
- Salts of magnesium, potassium, sodium and calcium
- Energetics: Nourishing, balancing, neutral
- Opposite Category: Simple Bitters
- Healing Properties: Lymphatic, alterative, diuretic, moistening, decongestant, vulnerary, mineralizing, alkalizing

61





62

Bitter Stimulants

Characteristics

- · Bitter tasting herbs that act as stimulants Constituents · Alkaloids such as caffeine, berberine, and
- nicotine
- Energetics: Slightly warming, drying Opposite Category: Sour
- Healing Properties: Metabolic stimulant, vasoconstrictive, detoxifying, diuretic, digestive stimulant, antimicrobial (berberine)





64





63

- Transition from a state of discharge to a state of rest and expansion
- Make tissues tighter, firmer, more dense
- Primary Herbal Category Astringent
- **Secondary Herbal Categories** Simple Bitters

• Sour









• Characteristics















Aromatherapy Qualities

- Ethereal: Water & Air, Damp
 Refreshing: Yin to Yang, Air, Damp & Hot
- Stimulating: Air & Fire, Hot • Invigorating: Yang, Fire, Hot
- Grounding: Fire & Earth, Dry
 Sultry: Yang to Yin, Earth, Dry & Cold
- Soothing: Earth & Water, Cold
- Calming: Yin, Water, Cold & Damp



75

















Refreshing

- Time of day: Morning, sunrise
 Time of year: Spring, spring
- Associated with the breath of life,
- Qualities: Renewed, revived,
- Counters: Self-pity, toxic shame, victim-hood, emotional paralysis, feeling burdened and weighed















86



87



88

Invigorating

- Time of day: Daytime (noon)
- Time of year: Summer (summer solstice)
- Qualities: Enthusiastic, determined, outgoing, active, busy, driven, focused.
- Counters: Lack of direction, being wishy-washy, overly pleasing or yielding to others, discouraged, low energy and motivation.

























97





99



- Time of day: Evening, bedtime • Time of year: Fall moving to winter
- Relaxed, calm, restful, quiet,
- still, peaceful, happy, playful,
- Counters: Feeling overwhelmed, feeling overstimulated, excessively busy, restless, nervous, agitated, stressed,





- Pleasant, sugary aroma
- Opposite sulfuric
- Examples
- Anise
 Chamomile
- Coconut • Fennel
- Honeysuckle
- OrangeVanilla













106

Floral

- Light, flowery smell
- Opposite sharp
- Examples:
 - Gardenia
 Jasmine
- JasmineLavender
- Lilac
- Lily of the Valley, Neroli
- Rose
 - Ylang Ylang

105

