Yoga and Tai' Chi Ch'uan

Physiological Benefits

- Stable autonomic nervous system equilibrium, with a tendency toward parasympathetic nervous system dominance rather than the usual stress-induced sympathetic nervous system dominance
- Pulse rate decreases
- Respiratory rate decreases
- Blood pressure decreases
- (Skins electrical conductivity)
- © EEG alpha waves increase (theta, delta, and beta waves also increase during various stages of meditation)
- Cardiovascular efficiency increases
- Sespiratory efficiency increases (respiratory amplitude and smoothness increase, tidal volume increases, vital capacity increases, breath-holding time increases)
- Gastrointestinal function normalizes
- Endocrine function normalizes
- Musculoskeletal flexibility and joint range of motion increase
- Posture improves
- Strength and resiliency increase
- S Endurance increases
- Second the second term of the
- Weight normalizes
- Sleep improves
- ! Immunity increases
- Pain decreases

Psychological Benefits

- Somatic and kinesthetic awareness increase (physical sensations sense of movement)
- Mood improves and subjective well-being increases
- Self-acceptance and self-actualization increase
- Social adjustment increases

- Anxiety and depression decrease
- S Hostility decreases
- S Psychomotor functions improve:
 - o Grip strength increases
 - o Dexterity and fine skills improve
 - Eye-hand coordination improves
 - o Choice reaction time improves
 - Steadiness improves
 - Depth perception improves
 - o Balance improves
- Cognitive function improves:
 - Attention improves
 - Concentration improves
 - Memory improves
 - o Learning efficiency improves
 - Depth perception improves

Biochemical Effects

The biochemical profile improves, indicating an anti-stress and antioxidant effect, important in the prevention of degenerative diseases.

- Glucose decreases
- Sodium decreases
- Total cholesterol decreases
- Triglycerides decrease
- HDL cholesterol increases (good Cholesterol)
- LDL cholesterol decreases (bad Cholesterol)
- Hemoglobin increases
- S Lymphocyte count increases
- Thyroxin increases

- Vitamin C increases
- Oxygen levels in the brain increase

Yoga / tai chi

muscle groups

oriented

Parasympathetic nervous system dominates
Subcortical regions of brain dominate
Slow dynamic and static movements
Normalization of muscle tone Low risk of injuring muscles and ligaments
Effort is minimized, relaxed Energizing (breathing is natural or controlled)
Balanced activity of opposing

on breath and the infinite)

Awareness is internal (focus is

Limitless possibilities for growth in self- awareness

Noncompetitive, process-

Exercise

Sympathetic nervous system dominates

Cortical regions of brain dominate

Rapid forceful movements

Increased muscle tension High risk of injury

Effort is maximized

Fatiguing (breathing is taxed)

Imbalanced activity of opposing groups

Competitive, goal-oriented

Awareness is external (focus is on reaching the toes, reaching the finish line, etc.)

Boredom factor