Essential Taijiquan Practices For Managing Age Related Change in Health and Body Systems

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Understanding Age and Age Related Changes

Age Means Many Things: Measuring Age in Developmental Science

- Chronological Age
 - How many times have you been around the Sun?
- Functional Age
 - Biological Age
 - Psychological Age
 - Social Age

Causes of Biological Aging

Primary Aging- Gene coded aging.

Ex. Telomere length



 Secondary Aging- Environment, disease, disuse, abuse.

Age Related Changes

- Sensorimotor function
 - Sensory input
 - Motor output
 - Reaction time, decision making, multitasking
 - The maintenance of vital functions within optimal range
- Musculoskeletal function
 - Strength declines
 - Bone mass loss
 - Osteoarthritis

Age Related Changes

- Cardio- Respiratory Systems
 - Vital capacity
 - Hypertension
- Immune System
 - Thymus Shrinkage- T Cell Production
 - Autoimmune disorders
- Neurological System
 - Brain mass loss (atrophy, damage)
 - Autonomic Balance

Age Related Diseases

- Cardiovascular Disease
- Diabetes
- Cancer
- Dementia
- Neurological and Autoimmune

The Role of Traditional Cultural Practices and Healing

Compensation for Morbidity

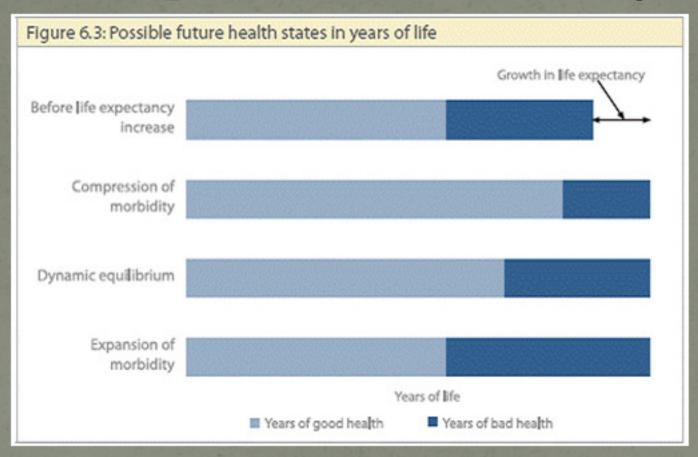


• Reversal or Compression of Morbidity

Dean Ornish PMRI



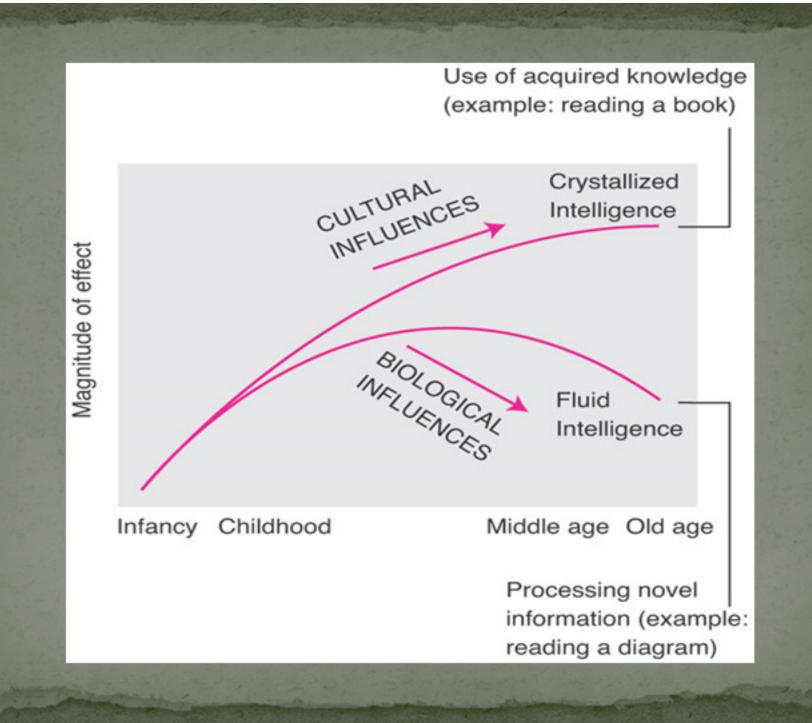
Compression of Morbidity



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The Role of Wisdom and Expertise: Aging is not all downhill

- Crystallized Intelligence
 - Experience
 - Pragmatics
 - Wisdom
- Plasticity
 - Learning
 - Repair



What's in your S.O.C. playbook?

- Paul B. Baltes
- Selective Optimization with Compensation
 - The use of pragmatic faculties to overcome adverse declines, maintain optimal functioning and quality of life.

Taijiquan as Mind-Body Wisdom



History of Taijiquan

- *Ming Dynasty 大明国 1368-1644
 - *Zhang Sanfeng- Daoist Hermit
 - *Chen Wangting- Knight of The Ming
- *Chen Village 陈家沟
- *Shaolin Monastery 少林寺
- ❖Huashan Hermitage 华山
- ❖Wudangshan Hermitage 武当山

History of Taijiquan

- *Chen style (陳氏)
- *Yang style (楊氏)
- ♦Wu/Hao style(武氏)
- *Wu style (吳氏)
- *Sun style (孫氏)

3 Essential Components of Traditional Taijiquan

- Oigong 氣功 (Energy Work)
 - Sitting, Standing, Recumbent
 - Iterative movement
- Form 陳式老架 (Functional Choreography)
 - Partner Training 推手 (Push hands)

What Are The Benefits?

Yang 2005

Primary (Skill-Related)

Secondary (Other Therapeutic)

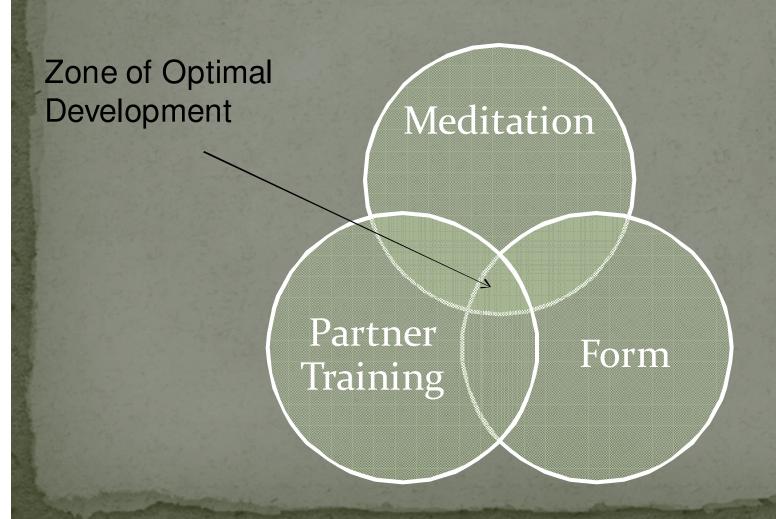
Holistic

- Postural control/balance
- Flexibility
- Coordination
- Agility
- Strength/power
- Sensitivity/awareness
- Reaction time
- Confidence

- Digestion/bowel function
- Cardio-respiratory function
- Immune system function
- · Prevention or treatment of arthritis
- Cognitive function (e.g., attention, concentration, learning, memory)
- Prevention of osteoporosis
- Physical improvements in multiple sclerosis patients
- · Quality of sleep

- Avoidance or repair of stress related injuries/illness
- Social interaction/sense of community
- Spiritual development (calmness/peace/tranquility)

Interactive Benefits of Traditional Training



Preliminary Findings: Survey of Taijiquan Practitioners' Wellbeing and Practice Curriculums

- N=98
- Average Age: 55
- Average Years in Practice: 18
- Reporting Poor or Fair Health:4% vs NA 18.9%
- Missed Activities in 30 days:20% vs NA 40%

Preliminary Findings: Survey of Taijiquan Practitioners' Wellbeing and Practice Curriculums

Do you feel your practices (Taiji, qigong, etc.) have benefited your physical health, mobility and/or functionality?

- 98% Yes
- 00% No
- o 2% No Sure

Most Common Themes:

- Strength and Stamina
- Resilience (disease)
- Recovery and Rehabilitation
- Vitality (Youthful/Sexual)

Preliminary Findings: Survey of Taijiquan Practitioners' Wellbeing and Practice Curriculums

Do you feel your practices (Taiji, qigong, etc.) have contributed to your mental health?

- 98 % Yes
- oo% No
- o2 % Not Sure

Most Common Themes:

- Positive/Productive Emotional States
- Sense of Connectedness to Others/Society/World
- Mental Clarity/Awareness/ Mindfulness
- Reduced Stress

Thank You

My Traditional Mentors

Enomoto Sensei

Kwong Sifu

Higashi Sensei

Leong Laoshi

Zhang & Hu Laoshi

Yang Laoshi

My Academic Mentors

Dr. Rosemary Blieszner

Dr. Shannon Jarrott

Dr. Yang Yang

Dr. Yasuo Miyazaki

Dr. Kye Kim