How it works: Optimal body use



MECHANISMS

Relaxed Weight Bearing Muscles relax & increase elastic

potential in the tissues so that more force is transmitted to bones

EFFECTS

Transforms cardio-respiratory function a. Liberates diaphragm, which massages pericardium Stronger bones & more powerful muscles b. More bone compression/elastic storage/power potential More capability to process stress & anxiety C. triggered by dissipation of neuromuscular tension

Active Joint Motions

Fluid & mobile joints that drive limbs & control posture via reciprocal resistance-free motions. b.

Regeneration of joints & tissues a. Fluid motions have a massaging, therapeutic effect **Greater balance, control & coordination** Well articulated joint motions improve sensory feedback **Effortless movements & increased fitness C.** More enjoyment of exercise & capacity for work

Controlled Weight Transfer

Rapid, relaxed & clean transfer of body weight with minimal impact & vertical or lateral displacement

Reduces risk of falls, collisions & injury a. **Reduces stress & improves autonomic function** b.

Greatly enhances fitness & performance C.

How it works: Poor body use



MECHANISMS

Tense Weight Bearing

Muscles contract against gravity and bear body weight instead of it being taken by the bones.

EFFECTS

a. Impaired cardio-respiratory function
Overuse of superficial muscles stifles diaphragm/heart
Weaker bones & muscles

b. Weaker bones & muscles Less bone compression & muscular power potential

- **C** Less capability to process stress & anxiety
 - Due to suppressed parasympathetic function

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Passive Joint Motions

Limbs pull on joints and drag body along, squandering energy by creating resistance and friction.

3

Uncontrolled Weight Transfer

Weight thrown around with each step; body rises/falls with pronounced vertical or lateral displacement.

- **a.** Amplifies risk of falls, collisions & injury via loss of control of body & effect of impact shock **b.** Builds stress, impairs parasympathetic function Impact shock agitates nerves & inhibits regeneration
- **C.** Impairs performance by destroying momentum High energy (ATP) input required to maintain speed