STRESS AND YOUR CHOICES

7 REPRODUCTIVE SYSTEM

of the reproductive system. Chronic stress can impair testos-terone and sperm production and cause impotence.

In men, excess amounts of cortisol, produced under stress, can affect the normal functioning

In women stress can cause absent

or irregular menstrual cycles or more-painful periods. It can also reduce sexual desire.

Here are ways in which some key body systems react.

1 NERVOUS SYSTEM

NERVOUS SYSTEM When stressed — physically or psychologically — the body suddenly shifts its energy resources to fighting off the perceived threat. In what is known as the "fight or flight" response, the sympathetic nervous system signals the adrenal glands to release adrenaline and cortisol. These hormones make the heart beat faster, raise blood pressure, change the digestive process and boost glucose levels in the bloodstream. Once the crisis passes, body systems usually return to

2 MUSCULOSKELETAL SYSTEM

Under stress, muscles tense up. The contraction of muscles for extended periods can trigger tension headaches, migraines and various musculoskeletal onditions.

3 RESPIRATORY SYSTEM

Stress can make you breathe harder and cause rapid breathing — or hyperventilation — which can brin panic attacks in some people. - which can bring on

4 CARDIOVASCULAR SYSTEM

Acute stress — stress that is momentary, such as being stuck in traffic — causes an increase in heart rate and stronger contractions of the heart muscle. Blood vessels that direct blood to the large muscles and to the heart dilate, increasing the amount of blood pumped to these parts of the body. Repeated episodes of acute stress can cause inflam-mation in the coronary arteries, thought to lead to heart attack.

ENDOCRINE SYSTEM Adrenal glands When the body is stressed, the brain sends signals from the production of the adrenal cortex to produce of the production of the adrenal cortex to produce of the production of the adrenal cortex to produce of the production of the adrenal cortex to produce of the production of the adrenal cortex to produce of the production of the adrenal cortex to produce of the production of the product cortisol d the adrenal medulla to produce epinephrine — sometimes alled the "stress hormones

Liver When cortisol and epinephrine are released, the liver produces more glucose, a blood sugar that would give you the energy for an energy for the liver on energiency.

6 GASTROINTESTINAL SYSTEM

Esophagus Stress may prompt you to eat much more or much less Stress may prompt you to eat more or different foods than you usually do. If you eat more or different foods or increase your use of tobacco or alcohol, you may experience heartburn, or acid reflux.



stomach our stomach can react with "butterflies" or even nausea or pain. You may vomit if the stress is severe enouah

Bowels stress can affect digestion and which nutrients your intestines absorb. It can also affect ow quickly food moves through your body. You may find that you have either diarrhea

Stress is a chronic condition in our society today & most people believe that is their only choice. Few have ever experienced the effects of a constantly lower level of stress. So we live in the logic and world-view of the stressed mind. That means we see the world as a place of fight or flight. Scarcity and punishment seem logical. "Dog eat dog" appears to be the way it "is".

Not only is the stress hard on our health, but it keeps us from being able to think outside the box that created the stress in the first place - a vicious cycle.

When thinking about MountainHeart School, it is best to get relaxed & into an Alpha brain state to allow insight, inspiration & creativity into your viewpoint,



attitude & choices! Reducing stress is the most important job of the Massage Therapist - and we do it through touch, visualization & verbal skills here at MountainHeart School.

Stress shuts & dumbs us down!

Loss of creativity, awareness, energy & higher brain function! Logic becomes based on a very limited and restrictive world-view but appears "logical" none the less!

Brain Wave States

Stress also affects the brain waves produced by the brain. These waves indicate what type of functioning the brain is able to do. When we are in stress, we are in high beta, which is good for running from tigers, but not for building energy, creative thinking, or listening to intuition.

It has been shown that stress reduction & relaxation techniques move us more into Alpha & below. There we have better access to healing & creativity.

It has also been shown that the heart has a much more balanced rhythm pattern when we are in attitudes like appreciation & love.

Beta (14-30 Hz)

Concentration, arousal, alertness, cognition Higher levels associated with Anxiety, disease, feelings of separation, fight or flight



Theta (4-7.9 Hz)

Dreaming sleep (REM sleep) Increased production of catecholamines (vital for learning and memory), increased creativity

Integrative, emotional experiences, potential change in behavior, increased retention of arned material

Hypnagogic imagery, trance, deep meditation

Alpha (8 - 13.9 Hz)

Relaxation, superlearning, relaxed focus, light trance, increased serotonin production

Pre-sleep, pre-waking drowsiness, meditation, beginning of access to unconscious mind



Delta (0.1-3.9 Hz)

Dreamless sleep Human growth hormone released

Deep, trance-like, non-physical state, loss of body

Access to unconscious and "collective unconscious" mind,