

Pituitary aland

ACTH

Adrenal

Cortisol

To immune system

alanc

effects of

arthritis hunger hostility acid reflux disease tunnel vision migraines sleep deprivation chronic fatigue hypertension depression decreased metabolism decreased immune system

Your body's response to stress

Initial Adaptive Stress Response

Adrenalin (Ephinephrine), Cortisol Stress Analgesia/Pain Tolerance Glucose Energy Mobilization and Use Thinking & Performance Cardiovascular Tone (Heart) Cardiopulmonary Tone

Immune System Blood Clotting Factor Blood Pressure Skin Conductance (Sweat Glands) Muscle Tone Brain Activity (Beta)*

Digestion Reproductive Hormones Growth/Healing Sexuality

Extremity Temperature



Prolonged (Maladaptive) Stress Response Response Pain Tolerance

Sexuality: Impotence and Anovulation

Skin Conductance (Dry Skin)

Insulin Resistance and Weight Fatigue Stress Hypertension **Respiratory Problems** Opportunistic Infections

Depression **Bone Decalcification** Addictions Somatic Syndromes Autoimmune disorders **Digestive** illness Strokes Heart Failure Kidney Failure

Mental health and associated addiction problems often begin early in life - many during childhood and adolescence.

What to do?

Identify mental health needs as early as possible
Provide coordinated and high-quality programs Provide coordinated and high-quality programs and services in school and social environments

Posterior Cingulate Temporo-parietal Cortex junction Amygdala Cerebellum Hippocampus ofMINDFULNESS

Mindfulness

"...after eight weeks of a mindfulness-based stress reduction class, participants exhibited increased gray matter in four regions of the brain: the left-hippocampus, the posterior cingulate cortex, the left temporoparietal junction, and the cerebellum. So, in the hippocampus and cerebellum, more gray matter contributes to coordination, memory, and emotional regulation, while in the amygdala more gray matter contributes to stress..."

Sara Lazar, PhD. & David Vago, PhD.



strive for coherence

Coherence is marked by smooth, balanced heart rhythms and the harmonious function of the body's mental, emotional and physical systems.

As coherence levels increase, so do energy levels, mental clarity and the ability to perform under routine or unusual conditions. The Navy's Coherence Advantage training emphasizes a take-charge attitude. Trainees learn to shift into coherence on command, increasing confidence for successful missions.

CPY is a Drug Free Community Support Grant Program. These posters were developed in part with Placer County HHS, under grant no. 1h79SPO15810-01 from the Office of National Drug Control Policy and SAMHSA. The views, opinions, or policies of ONDCP, SAMHSA or HHS should not be construed as such.