

Stress Patterns and Associated Health Issues		
Allostatic Load Patterns	Neurophysiological Activation & Inhibition Patterns	Potential Associated Health Issues
1. Too frequent stress responses to real or perceived stressors (e.g., poverty, child abuse, caregiver for someone with a chronic illness)	Full activation (SNS) and inhibition (via the HPA) cycle that occurs too frequently	<i>Overproduction of adrenaline:</i> <ul style="list-style-type: none"> • Increase in heart attack and stroke [Too much adrenaline = surge in blood pressure = damage to vessels of the heart and brain, or lesions where plaque builds and restricts blood flow (“hardening of the arteries”)]
2. Inability to adjust (habituate) to initial challenges that over time, should no longer be threatening (e.g., public speaking, daily commute)	Full activation (SNS) and inhibition (HPA) cycle when it is not necessary	<ul style="list-style-type: none"> • Hypertension <i>Overproduction of cortisol:</i> <ul style="list-style-type: none"> • Melancholic depression • Obsessive compulsive disorder • Panic disorder • Alcoholism • Lowered immune systems • Decrease in memory functions • Increase in anxiety • Diabetes • Malnutrition • Hyperthyroidism • Functional gastrointestinal disease
3. Prolonged stress response after stressor is removed (e.g., remaining activated after an argument, elevated blood pressure hours following a test)	Both activation (SNS) and inhibition (HPA) return to baseline more slowly or do not shut off when stressor is no longer present	
<i>All the above load conditions involve long-term overexposure to adrenaline and cortisol</i>		
4. Inadequate stress recovery back to baseline	Decreased inhibition (HPA) to restore balance and promote stress recovery; other systems then compensate and stay activated	<i>Underproduction of cortisol:</i> <ul style="list-style-type: none"> Allergies Asthma Autoimmune diseases Chronic fatigue syndrome Rashes Rheumatoid arthritis PTSD
<i>In the above load condition there is long-term overexposure to inflammatory cytokines</i>		

Note: This information is compiled from McEwen’s (2002) book and adapted with permission from *The End of Stress As We Know It*, Washington, D. C.: Joseph Henry Press.