









## **OBJECTIVES**

- Explore a novel model of Integrative pathophysiology.
- Describe recent scientific discoveries that suggest new approaches to understanding and implementing integrative approaches to health and healing.
- Describe a model for implementing integrative mental healthcare



















































## What is Integrative Medicine?

- Patient and practitioner are partners in the healing process.
- All factors that influence health, wellness, and disease are taken into consideration, including mind, spirit, and community, as well as the body.
- Appropriate use of both conventional and alternative methods facilitates the body's innate healing response.
- Effective interventions that are natural and less invasive should be used wheneve possible.
- Integrative medicine neither rejects conventional medicine nor accepts alternative therapies uncritically.
- Good medicate is based in good science. It is inquiry-driven and open to new paradigms.
  Alongside the concept of treatment, the broader concepts of health promotion and the prevention of illness are paramount.
- prevention of illness are paramount.
  Practitioners of integrative medicine should exemplify its principle
  - actitioners of integrative medicine should exemplify its principles and commit emselves to self-exploration and self-development.

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Contemplative Model of Health and Disease	A Harmony (Homeostasis/ Homeodynamics) E N Disharmony T (Allostasis)
"It is not the strongest of the species that survives, but rather the one most responsive to change." Charles Darwin	Dysregulation (Allostatic load)
Disin	tegration

# **KEY TERMS** The New Lexicon of Integrative Medicine • Hormesis (Resilience)



































### HRV in Psychiatric Disorders

- HRV decreased in depression (correlation with degree depression) (demp et al. 2010 Biol Psychiatry)
- No change after treatment with SSRI (despite improvement
- Further decrease in HRV after treatment with TCA (Ker
- Generalized anxiety associated with decreased HRV (Lick
- Decreased HRV in depression is mediated by social contain
- (Schwerdfeger et al. Health Psychology 20
- MRV is more decreased in response to a stressor in depressed subjects (Hughes et al. Psychosomatics, 2
- PTSD associated with decreased HRV at baseline and in response to positive and negative stimuli









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"Man is a microcosm, or a little world, because he is an extract from all the stars and planets of the whole firmament, from the earth and the elements; and so he is their quintessence"

Theophrastus Philippus Aureolus Bombastus von Hohenheir PARACELSUS

















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#### ore Ten for Grass-Fed Beef" (USDA 2009)











Curcumin

(TA 65)





























































- 20% improvement in memory performance and attention after one hour engaging with nature (kernen et al. Psychological scaness 2008)
  Decrease ADD symptoms when children spend time in nature. (tayle et al. Second School Scho
- ols with larger windows have higher SAT scores, higher dance, and less violence (Matsueka 2008).





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### Directed Attention Fatigue Syndrome Kaplan and deYoung

"Under continual demand our ability to direct our inhibitory processes tires ... This condition reduces mental effectiveness and makes consideration of abstract long-term golas difficult. A number of symptoms are commonly attributed to this fatigue: irritability and impulsivity that results in regrettable choices, impatience that has us making ill-informed decisions, and distractibility that allows the environment to have a magnified effect on our behavioral choices".

























