

It's all about the body

A clear example: Stress





Stress...

- You know what it is.. How would you define it?
- Richard Lazarus
- Adaptive response
 - Produces
 Vigilant attention
 Stimulation of SNS
- Chronic stress -- is dangerous





Is stress an emotion?

- Involves fight/ flight response







Stress (and rats... again)

- Studying cancer agents in rats
- Exposure and control rats both developed cance Only exposure rats when assistant did injections
- Selye's injections 'stress inducing'
 - Found similar results for prolonged heat or cold, pain, or fearful stimuli, like cats or more aggressive rats
- General Adaptation Syndrome (Stress)
- Alarm: aroused SNS in response to stressor
 Resistance: prolonged moderate arousal
 Adrenal glands secrete cortisol and epin
- Exhaustion: with ongoing' severe stressors

 Weakness/ fatigue/ lack of interest

 Immune system less active



Hans Selye Canadian Physician, 1907-1982 'discovered' stress



Stress & Health

- Usatin of a spouse
 40-50% higher probability of also dying
 First year of college
 Higher probability of developing health problems

- health problems

 Long Hours & Job stress

 Hypertension & Diabetes

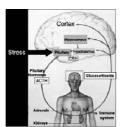
 Virus induced cancers/ lymphoma

- Low control

 Low predictability

 Few outlets for frustration
 Interpretation of stressor

 Low social support





Short and Long Term Stress

- Hypothalamus
- Stimulates Pituitary
- Pituitary
- Releases ACTH to stimulate Adrenals
- Andrenals
- Acute/ Moderate reaction
 Enhances metabolism & availability of fuels
 Drives up blood sugar/ release of protein
 Stimulates immune system/ decreases appetite & sex drive

- With lengthy stresses
 Enter exhaustion stage
 Immune system weakens
 Causes damage to hippocal
- · Let's take a look at this...

- SNS responses
 Fades when no longer needed

Prolonged Stress

- HPA kicks in slower but lasts longer

- Exhaustion in system
- HPA is overworking
- Body reacts with slowed & toxic reactions

