

A Holistic Approach

Michael B. Mantz, M.D., M.H.



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Integrative & Holistic Approach

- Disease Based vs. Health Based
- Science + Ancient Wisdom
- Machine Parts vs. Integrated Network EO



BUP

BIOPSYCHOSOCIAL SPIRITUAL

biological/psychological/social/spiritual

Fear-Based / Trust-Based



Part I: Anxiety: The Fundamentals -> Focus on the Biological

- Learn the major characters:
- 4 Brain Areas: Amygdala, Hippocampus, PFC, Hypothalamus

8 Neuromodulators: Adrenalin, Cortisol, GABA/Glutamate, Serotonin, Dopamine, Opioids, Acetylcholine

Knowing the names - Understanding the Basics "Name it to Tame it" reduces Amygdala++

Part I: The Fundamentals + Focus on the Biological cont.

- ► Learn the 7 Primary Emotions all mammals share
- Understand the Autonomic Nervous System (ANS) Ladder
- Learn the 2 Major Stress Response Systems (SRS)
- Know the 2 Major Highways for Anxiety (Cognitive + Somatic)

Convert the Knowledge into Action (Biological Focus)

Learn how to use Nutrition, Sleep, Supplements & Body Movements to help balance & tame Anxiety

Anxiety: Stats 4 Concern

- ► About 1 in 5 -> Anxiety disorder (19.1%) ~40 million
- ► About 1 in 3 ->Anxiety disorder sometime in their lives (31.1%)

53.3% Don't seek out treatment

- Compared to U.S. adults 2019
 1st half of 2020 3X more likely to screen positive for anxiety disorder (Twenge 2020)
- Anxiety Screening Polls -> jumped up over 600% from Jan Oct 2020 (MHA 2020)
- 11,000,000 people serious thoughts of suicide up 460,000 from previous year

Anxiety Sensitivity*

Anxiety Disorders

- ► GAD 3.1%
- ► Panic Disorder 2.7%
- ► Specific Phobias 8.7%
- ▶ PTSD 3.5%
- Obsessive Compulsive 1% Disorders
- ► Social Anxiety 6.8%

Anxiety -> An Emotion

- + feelings of tension
- + worried thoughts
- + physical changes like increased blood pressure.

People with anxiety disorders usually have **recurring intrusive thoughts** or concerns. They may **avoid** certain situations out of worry (APA 2021).

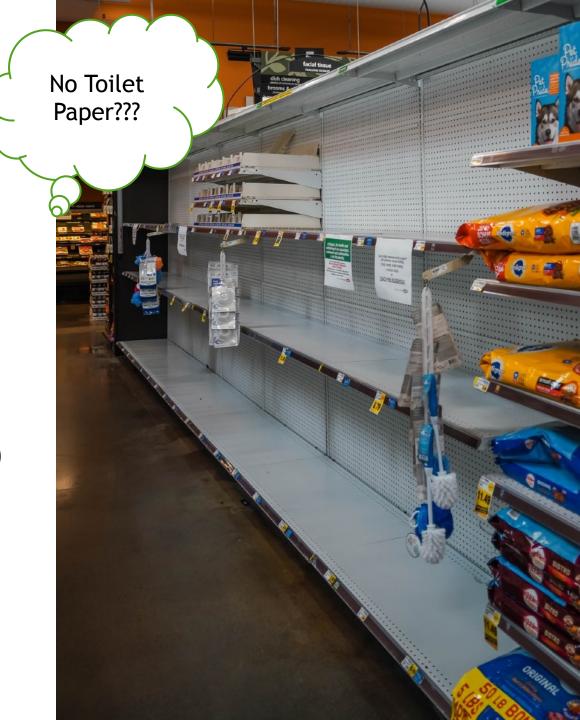
DSM5 – **Anticipation**: future threat

2 Major Highways: 1) Cognitive (Worry)

2) Somatic (Spastic Constricting)

Stress // Anxiety vs. FEAR

Anticipation vs. Imminent



Emotions Deconstructed

Impulse (Approach vs. Avoid)

Thoughts (Risk vs. Reward)

Sensations (Body Wisdom)

Valence +/-

Intensity (0-10) Struggle (0-10)

Emotions - The Primal 7 (Panksepp)



PANIC-GRIEF -> Unprocessed -> Major Source of Anxiety

PLAY MORE!!!!



Foundation of Anxiety: Stress

- ► TENERGY mobilization
- ► ↑IMMUNE system
- DIGESTIVE & REPRODUCTIVE systems
- Healthy relationship -> PAIN acceptance AGENCY
 - *ADAPTIVE CAPACITY
 - Growth
- Unhealthy relationship ->
 - PAIN sensitivity SELFEFFICACY rigidity & chaos



Two Paths of Stress:

1) SAM: Fast 2) HPA: Slow

Amygdala ->Hypothalamus-> Brainstem-> Spinal Cord -> Adrenal Glands -> Adrenalin

Continued threat -> Hypothalamus-> CRH -> Pituitary -> ACTH ->Adrenal Glands -> Cortisol



Adrenalin

100% Pure

- Cardiac stimulant (Rate & Contraction)
- Bronchodilator
- Blood Transfer -> Vital Organs & Limbic System
- Alertness/Agitation

- Liquidates your stored energy into ready to use energy (catabolic)
- Boosts <u>adrenaline</u> (epinephrine)
- Anti-inflammatory
- Memory
- Gets your butt out of bed

CORTISOL

THE AUTONOMIC LADDER (Polyvagal)

Safety -> Calm Connection (Ventral Parasympathetic)

Danger -> Alert Mobilize (Sympathetic) Fight or Flight

Life Threat-> Immobilize Shut Down- (Dorsal Parasympathetic) Freeze or Feint



Brain: 3 Layers + 3 Characters + 1 System

Amygdala "Amy G" - Fear/Rage/Lust, Emotional Learning, Novel stimuli







► **Hippocampus "Hippo"** - Memory, Context, Orientation, Narrative



▶ PFC "Police and Fire Chiefs" - selective inhibition / brakes for the limbic system

► Limbic System - Major emotional processing center 2nd Layer



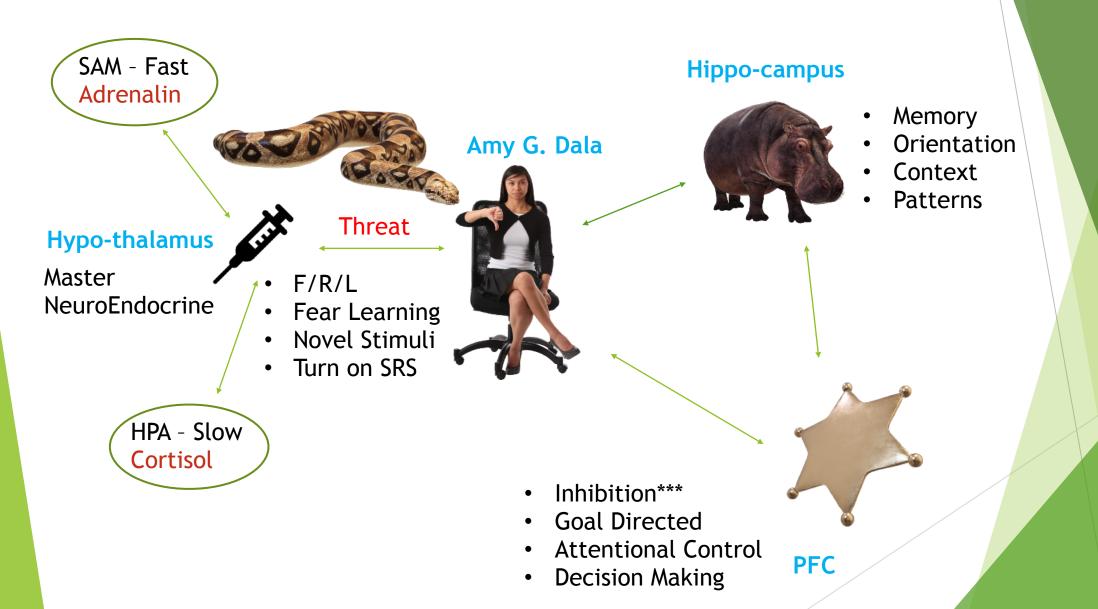
> 3 Brain Layers - Reptilian -> Early mammalian -> Late mammalian







Anxiety on the Brain



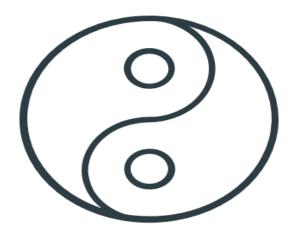
3 Basic Processes -> Road to Pathology

- ▶ 1) **Sensitization** "neurological sunburn" more raw more easily triggered ***slower to return to baseline
- 2) Elaboration learning -> this test makes me anxious > math makes me anxious -> school makes me anxious
- 3) Dysregulation HPA stress axis-> over responsive + under responsive.

5 Key Neuromodulators

► Glutamate/GABA





- Serotonin -> feelings of contentment thoughts less sticky
- Dopamine wanting desire anticipation of reward
- Opioids security, pain relief, connection

The Birth of Anxiety - (Epi)Genetics + Early Development

- 25% Women -> Pathological Anxiety/Depression Perinatal Period
- ► Fetal Programming Effect??? Programmed to Face a Threatening World
- Attachment Insecurity Neglect / Hypercritical / Punitive

- XXX Vulnerability
- 1. Genetic (Amygdala Jacked up + low brakes from PFC)
- Psychological (Adverse Early Exp -> Uncontrollability/Unpredictability)*
- 3. Specific Psychological
- Neuroticism: ELOC Agency + NAS (Global, Stable, Internal)
- Kindling & Sensitization & Stress Axis Dysregulation

Anxiety Recipe: Key Ingredients

2 Major Highways **Thinking** (Worry) + **Sensations** (Spastic Constriction, Agitation)

- ► AVOIDANCE (Dissociation/Distraction) recursive "chasing your own tail"
- ► ANTICIPATION Future Orientation/Lack of Presence
- ► AMBIGUITY/CONFUSION Look Don't Look // Go Stop // Wobble



2 BASIC PRINCIPLES

INCREASE +NEUROPLASTICITY
DECREASE INFLAMMATION