How to leverage neuroscience & manage stress effectively through mind-body practices

Dr Safia Debar Executive Health Mayo Clinic London

BSc MBBS DCH DRCOG MRCGP DipOccMed MPH

@drsafiadebar debar.safia@mayo.edu <u>www.rqwellness.com</u>



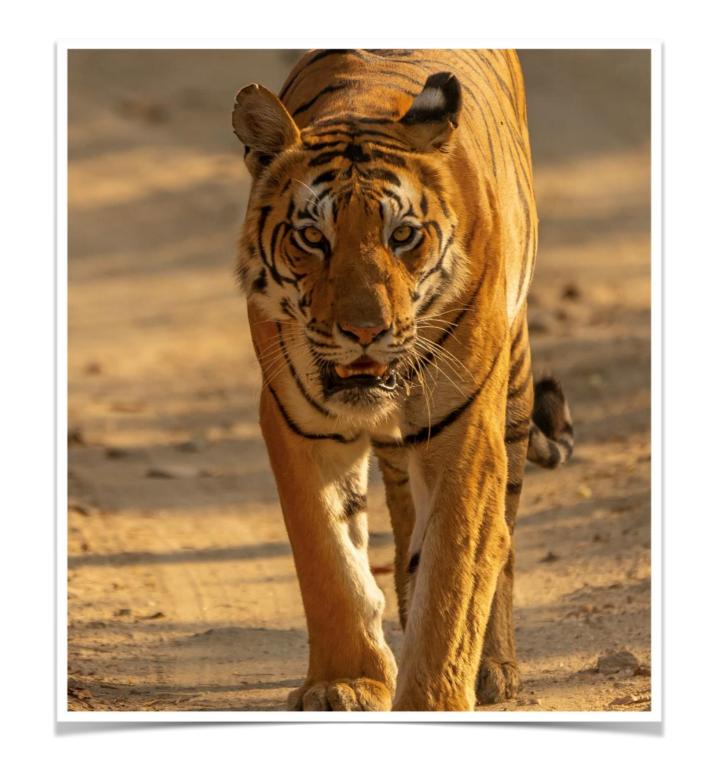
Introduction

- * Outline
 - * The neuroscience of stress
 - The stress cycle
 - Warning signs
 - * How to leverage the neuroscience through mind-body practices



Imagine

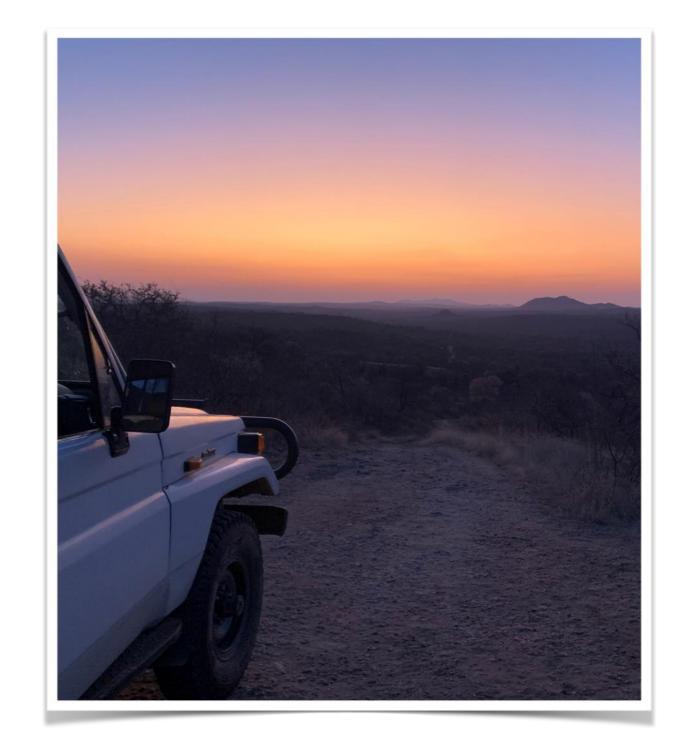
- Physiological change
- Dominant emotion(s)
- * Thoughts and thought pattern
- * Behaviour
- Story & Beliefs





Then...

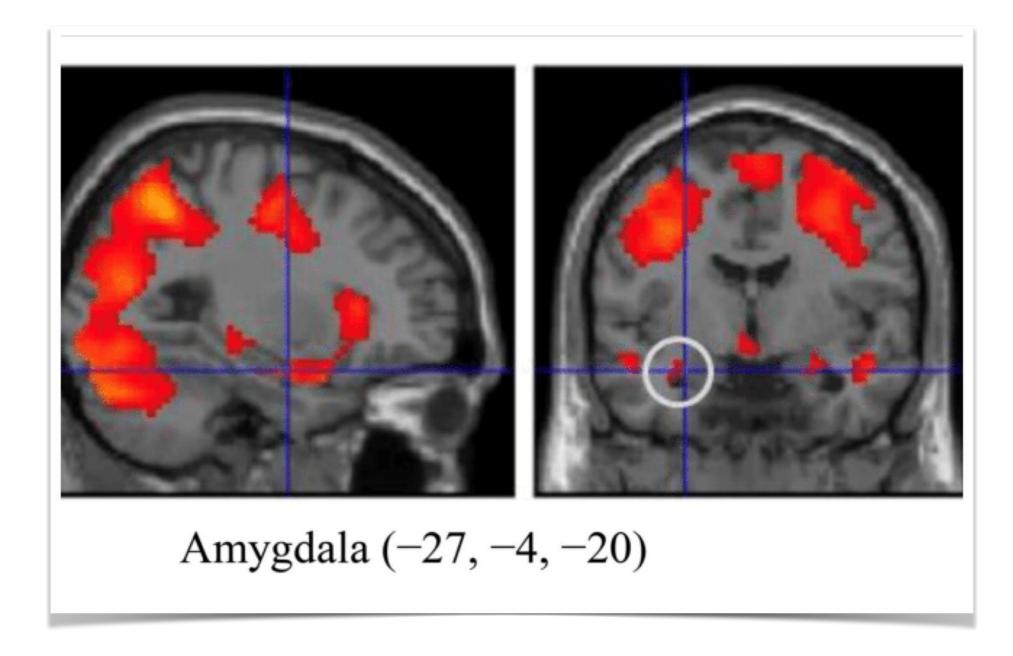
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What actually happened in your brain?

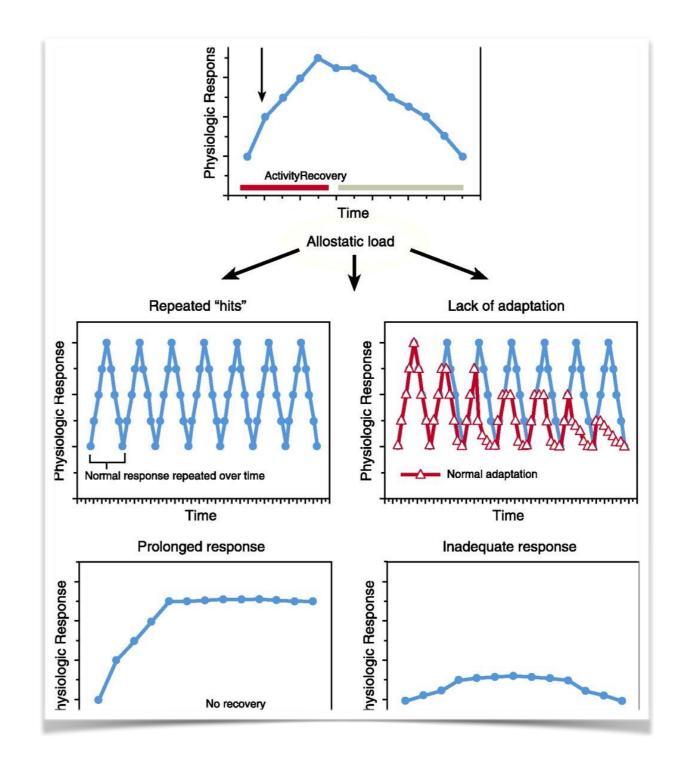
- * Limbic
- * F/F/F
- Cascade
- Physiology
- Survival
- * Story





What actually is stress?

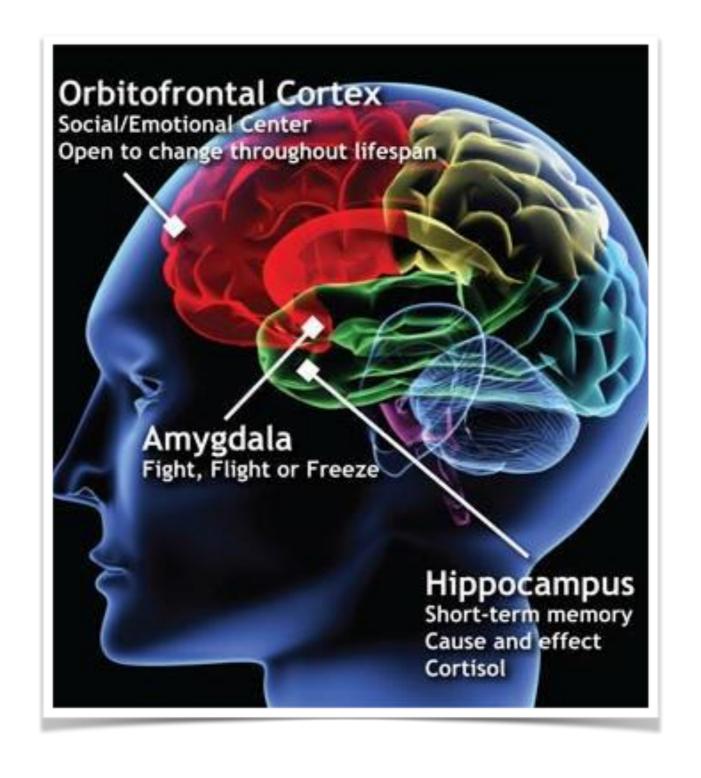
- Non specific response to our body to any demand
 - Negative or positive
 - Real or Perceived
- Normal and appropriate to ensure survival
- If prolonged, failure of recovery results in dis-ease





NEUROSCIENCE

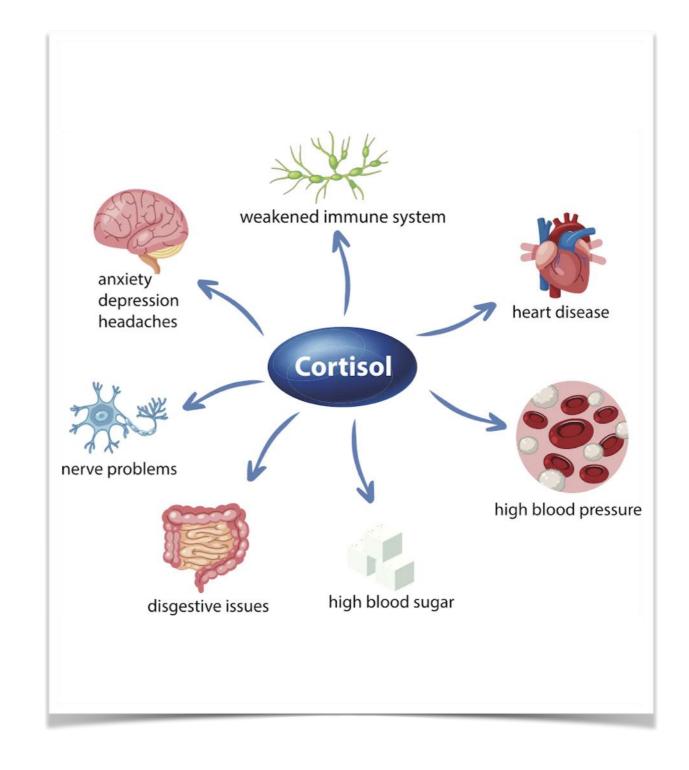
- * SURVIVAL
- Perpetuation of species
 - * Food, Reproduction
- * 2 main programs
 - Prefrontal Cortex
 - Limbic system



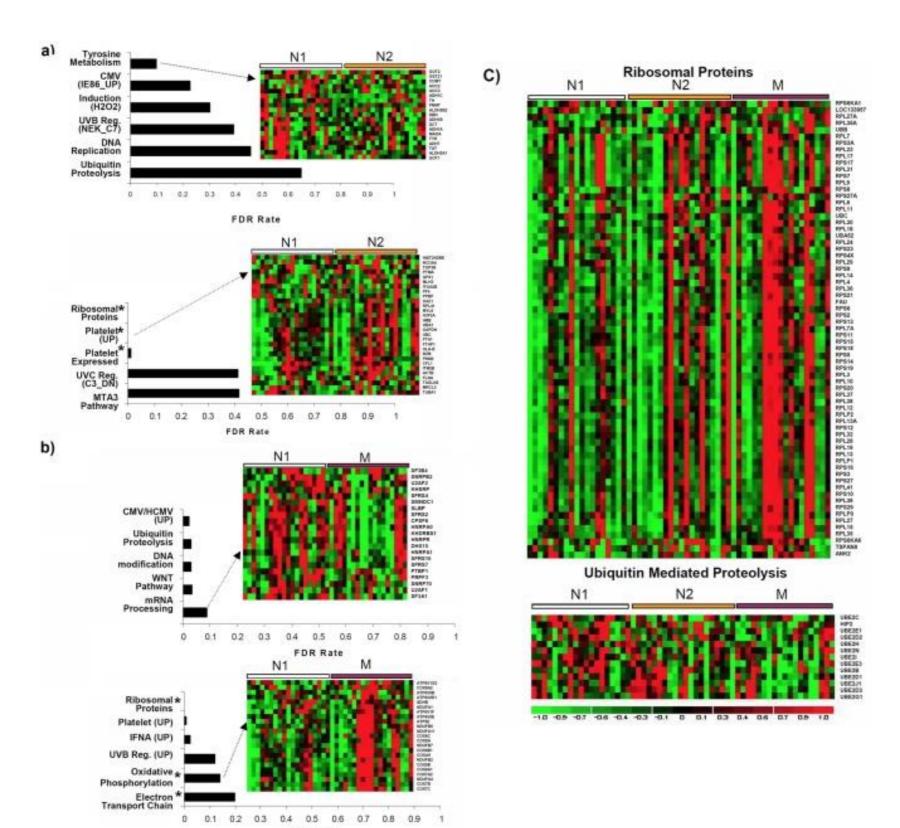


PAY ATTENTION if

- It is unremitting and constant
- * Perceived as uncontrollable
- * You are unable to buffer with relaxation
- Multiple stressors or chronic stress state
- You're on autopilot, hamster wheeling
- Repeated self destructive behaviours
- * Frequent out of proportion reactions.
- * You've started hiding from life
- * Physical symptoms such as feeling tired all the time, recurrent infections, aches and pains, autoimmunity etc..







FDR Rate

Transcriptional profiles in 19 healthy long term RR practitioners (M); controls (N1) and 20 individuals who completed 8 weeks of RR (N2- short term practitioners)

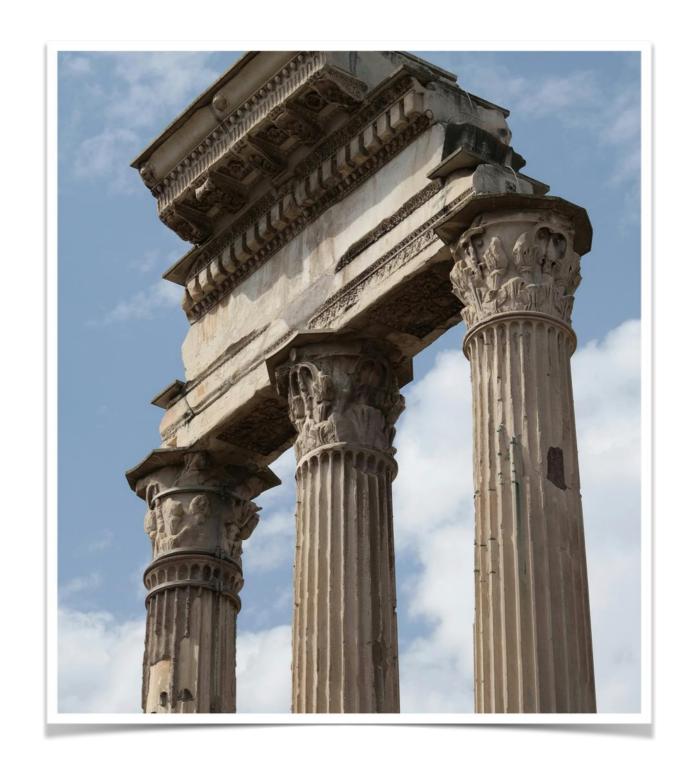
Significant alterations in cellular metabolism, oxidative phosphorylation, generation of reactive oxygen species and response to oxidative stress in long-term and short-term practitioners of daily RR practice that may counteract cellular damage related to chronic psychological stress.

RR elicits specific gene expression changes in short-term and long-term practitioners



My approach

- Neuroscience
- * Integrative medicine
- Somatics
- * Are you completing your cycles?





Something on somatics

- Imagine holding something hot
- * What are your options?
 - * SUPPRESS
 - * REPRESS
 - * ESCAPE
 - * DISTRACT
 - * HOLD SPACE, FEEL IT, LET IT RUN ITS COURSE & LET GO
- * Factors to consider
 - * Modelled
 - Beliefs
 - Practice
 - Intergenerational patterns





How do we test & assess?

- * Physical
- Health screens covering each "organ" but looking at the WHOLE BEING
- Personalised
- * Genomics
- * Physiological indices
- * Eg CAR, CRP, Cardiac markers etc
- Psychological
- Full assessment
- * Relational
- Spiritual "Joie de vivre"
- Specifics
- * How we breathe
- Mindset and view of the world, self and others





Where to start

- * Awareness
- * Audit
- * Is this serving you?
- One area (get specific)
 - * Thoughts
 - * Emotions
 - Behaviour/Action/Inaction
 - * Result
 - What is the story you're telling yourself?





Lowest hanging fruit

- Embed into the day
- Experiential states
- * Parasympathetic
- * Guard your senses
- * Support
- Learn how to feel
- * Leverage neuroscience
 - Expect resistance





Embed, get creative

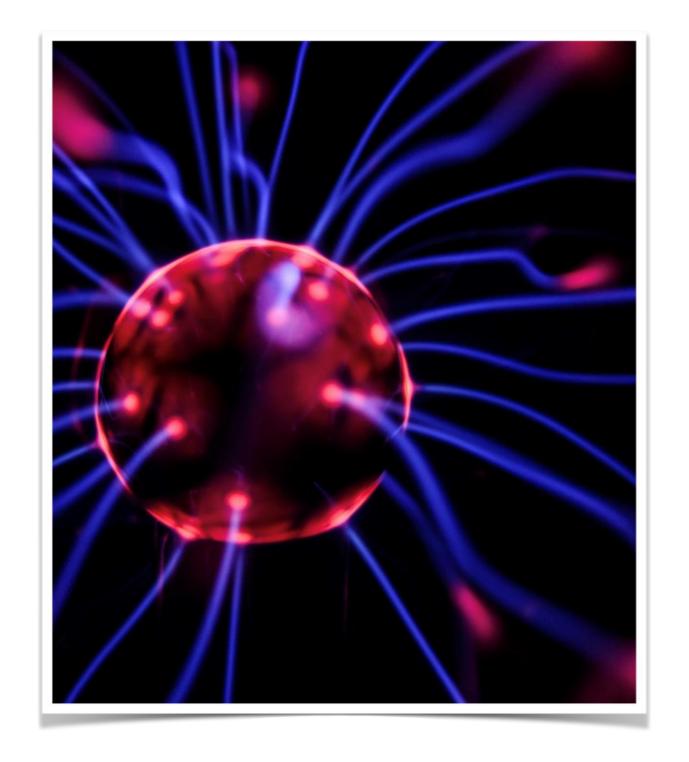
- * What does my day look like
- * Power in start & end
- * Where can I embed
 - Mindful breath
 - * Movement
 - * Hydration
 - * Music & Dance
 - * Laughter
 - Curiosity & reflection
 - * Presence with others & self





Experiential

- Altered states mean different brainwave patters
- Start with guided
 - * Breathwork
 - * Meditation
- * Yoga, movement
- Get into body: cold, voice, move



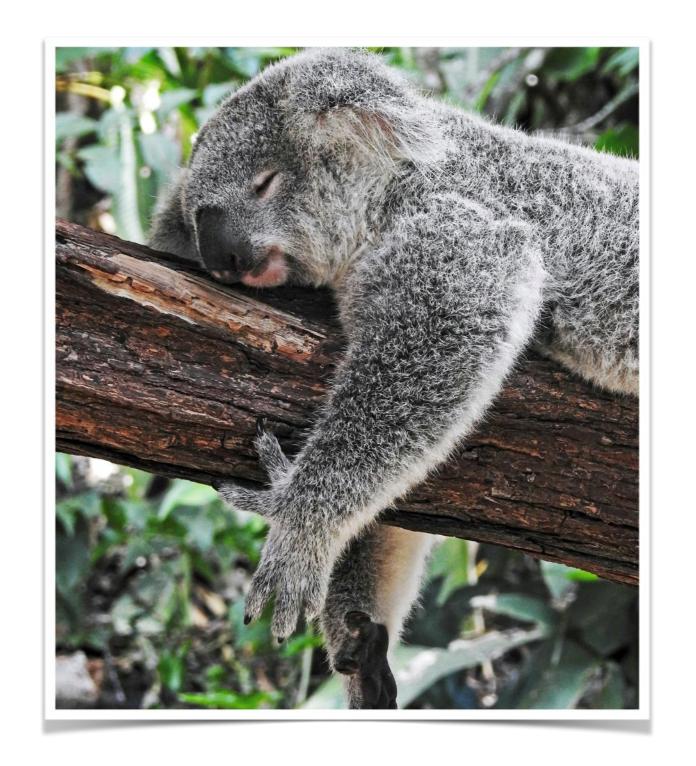


Hard hitters

Sleep: repair

* Movement: BDNF

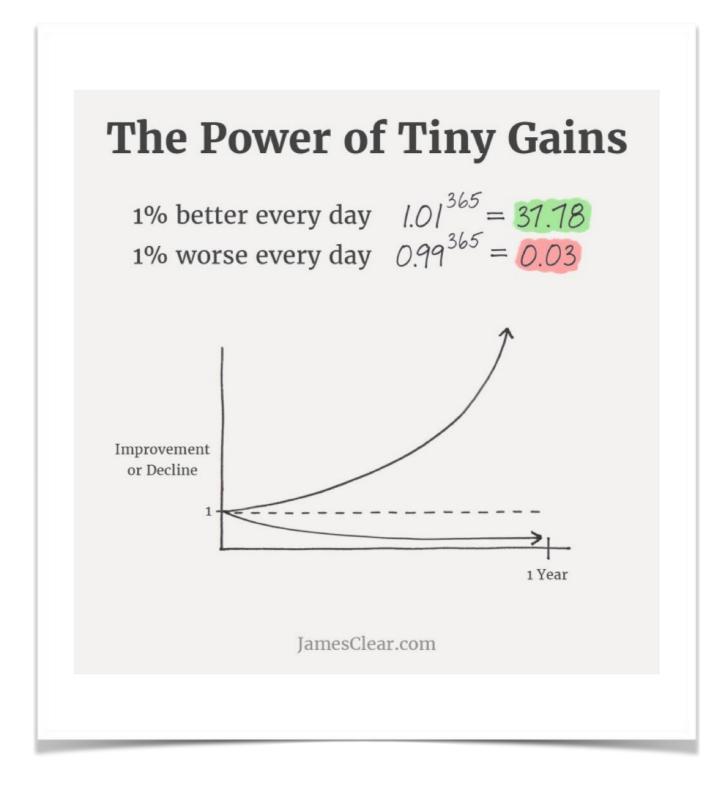
- Ability to stay, surrender to physiological state aka feelings
- * Connection
- * Optimising hormone & gut health
- Support: therapist, coach, dr, etc





1%

- * 1 thing you learnt today
- * How does your body handle stress currently?
- * How are you completing your cycles?
- * Any evidence of wear and tear? AKA allostatic overload
- 1 tiny thing/reframe that can easily be implemented NOW
- * How do you grieve?
- * How can you start?





Thank you

Questions?

www.rqwellness.com

@drsafiadebar

debar.safia@mayo.edu



