

Conquer Your Brain

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IPM
MEDICAL GROUP INC.
treating pain, restoring life



Objectives?

Have a great life with CRPS.

Structure and Function

- Gray matter- hardware
- White matter- cables and cords
- CRPS- changes in brain structure lead to changes in function

The Brain Game

- Neuroplasticity
- Neurogenesis
- Epigenetics
- Glial cells
- You've got the power!

CRPS Brain

- Impaired motor function
- Distorted body perception
- Neglect of involved limb
- Extreme sensitivity to touch
- Temperature changes
- Mood changes

Conquering the Pain Brain

- Create structural change
- Use the Rs- remodel, re-work, revise, reconfigure, regenerate, rejuvenate, repetition

5 Key Elements of Success

- Mobility
- Interaction
- Independence
- Validation
- Love

The Storm

- Trauma- mood swings, flashbacks, panic attacks, social isolation, nightmares
- Fight, flight...or freeze?
- The three faces of trauma
- Trauma symptoms- hyperarousal of the limbic system- amygdala, hippocampus, anterior cingulate cortex, insula, thalamus, hypothalamus

Calming the Storm

- Meditation- still or active, alters brain structure and function, more gray and better white
- Breathing exercises- parasympathetic induction
- Art therapy- periaqueductal gray, dorsolateral prefrontal cortex
- Yoga- neuroplastic changes, therapy not exercise
- EMDR- eye movement desensitization and reprocessing, uses rhythmic eye movements to quell traumatic feelings

Harmful Thoughts



Bad environment ➡ toxic inflammation ➡ epigenetic changes ➡
alters structure and function ➡ more pain

Harmful Thoughts- the Big 3

- Catastrophizing
- Fear
- Anger



Healing Thoughts

- Acceptance
- Gratitude – Heals, energizes, and transforms lives” –Dr. Robert Emmons
Improves mood, sleep and life satisfaction.
- Compassion – Responding to the needs of others.
Improves relationships, lowers heart disease, prolongs life

Exercise and the Brain

- Powerful effect in enhancing brain function
- Stimulates the production of neurotrophic factors
- Increases gray matter in the hippocampus
- Improves function in numerous brain regions including stress regulation pathways, motor cortex, somatosensory cortex, anterior cingulate cortex, insula



Gut/Brain Connection

- Microbiome composition linked to health, chronic disease, immune function, mood disorders
- Two-way communication between microbes in the gut and the brain
- Microbiota can be disrupted by diet, opioids, antibiotics, and environmental toxins
- Rule of 7

Sleep

“A good laugh and a long sleep are the two best cures for anything.”

- Sleep is key in the neuroplastic process
- The brain is very active during sleep - when it consolidates learning
- Less sleep = more pain
- Sleep hygiene is a must
- CBT works better than pills



Harry Potter



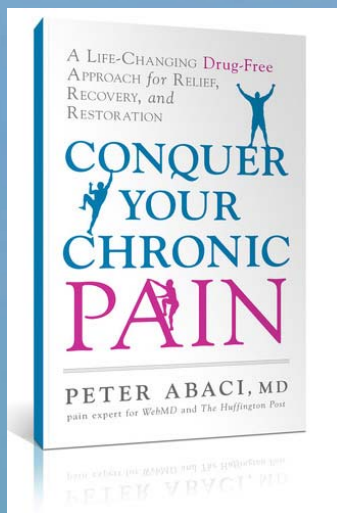
Contact Information

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Movie Credits:

Harry Potter and the Deathly Hallows: Part 2 (2011)

Director:

David Yates

Writers:

Steve Kloves (screen play),
J.K. Rowling (novel)

Company Credits:

Warner Brothers,
Heyday Films,
Moving Picture Company

Stars:

Daniel Radcliffe,
Emma Watson,
Rupert Watson

Resource www.painreliefrevolution.com