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Contents of this newsletter:

Articles:

- \Rightarrow Next year's retreat.
- \Rightarrow Youtube video that may be of interest:
- ⇒ Scientific study published on 7/7/2022 Mindfulness meditation and pain management



Next year's retreat



For your diaries:

The next retreat will be over the weekend of $9^{th}/10^{th}/11^{th}$ June 2023. More information will follow. The cost will be in the range of between £325 - £450, depending on your choice of accommodation. A deposit of £50 will secure your place, so please email me if you wish to attend.

Details of the last retreat in June last year is on my website and the retreat will be similar, as the feedback from last

year was so positive. There is a maximum number of 10 people and I have a few already interested.

Maybe, if your friends and family are at a lost as to what to treat you for Christmas, this could be it!!

Mindfullybalanced.co.uk

You tube video that may be of interest:

James Nestor: author of: "The new science of a lost art" (Breathing properly) he covers a morning breath technique, why breathing correctly is good for anyone taking part in sports and how it can help with stress.

https://www.youtube.com/watch?v=-vEMc6Ydq-g

What I like about this, is his openness about not being a scientific expert, he is a journalist specialising in scientific research, and has researched the benefits from the experts about the benefits of breathing properly, his book is very easy to read.

Scientific study published on 7/7/2022 – Mindfulness meditation and pain management

A recent published study confirms the benefits of Mindfulness in regard to Pain Management is below.

Scientific study into Pain Management and Mindfulness - published 8/7/2022

Mindfulness meditation reduces pain by separating it from the self

UC San Diego study reveals neural circuitry supporting mindfulness-induced pain relief

Date: July 8, 2022

Source: University of California - San Diego

Summary:

Mindfulness meditation is effective in reducing pain relief; a new study reveals the underlying neural circuitry.



A sensory walk on the beach.

For centuries, people have been using mindfulness meditation to try to relieve their pain, but neuroscientists have only recently been able to test if and how this actually works. In the latest of these efforts, researchers at University of California San Diego School of Medicine measured the effects of mindfulness on pain perception and brain activity.

The study, published July 7, 2022 in *PAIN*, showed that mindfulness meditation interrupted the communication between brain areas involved in pain sensation and those that produce the sense of self. In the proposed mechanism, pain signals still move from the body to the brain, but the individual does not feel as much ownership over those pain sensations, so their pain and suffering are reduced.

"One of the central tenets of mindfulness is the principle that you are not your experiences," said senior author Fadel Zeidan, PhD, associate professor of anaesthesiology at UC San Diego School of Medicine. "You train yourself to

experience thoughts and sensations without attaching your ego or sense of self to them, and we're now finally seeing how this plays out in the brain during the experience of acute pain."

On the first day of the study, 40 participants had their brains scanned while painful heat was applied to their leg. After experiencing a series of these heat stimuli, participants had to rate their average pain levels during the experiment.

Participants were then split into two groups. Members of the mindfulness group completed four separate 20minute mindfulness training sessions. During these visits, they were instructed to focus on their breath and reduce self-referential processing by first acknowledging their thoughts, sensations and



Clouds over Chesil Beach at sunset

emotions but then letting them go without judging or reacting to them. Members of the control group spent their four sessions listening to an audio book.

On the final day of the study, both groups had their brain activity measured again, but participants in the mindfulness group were now instructed to meditate during the painful heat, while the control group rested with their eyes closed.

Researchers found that participants who were actively meditating reported a 32 percent reduction in pain intensity and a 33 percent reduction in pain unpleasantness.

"We were really excited to confirm that you don't have to be an expert meditator to experience these analgesic effects," said Zeidan. "This is a really important finding for the millions of people looking for a fast-acting and non-pharmacological treatment for pain."



When the team analysed participants' brain activity during the task, they found that mindfulness-induced pain relief was associated with reduced synchronization between the thalamus (a brain area that relays incoming sensory information to the rest of the brain) and parts of the default mode network (a collection of brain areas most active while a person is mind-wandering or processing their own thoughts and feelings as opposed to the outside world).

One of these default mode regions is the praecuneus, a brain area involved in fundamental features of self-awareness, and one of the first regions to go offline when a person loses consciousness. Another is the ventromedial prefrontal cortex, which includes several sub regions that work together to process how you relate to or place value on your experiences. The more these areas were decoupled or deactivated, the more pain relief the participant reported.

"For many people struggling with chronic pain, what often affects their quality of life most is not the pain itself, but the mental suffering and frustration that comes along

with it," said Zeidan. "Their pain becomes a part of who they are as individuals -- something they can't escape -- and this exacerbates their suffering."



By relinquishing the self-referential appraisal of pain, mindfulness meditation may provide a new method for pain treatment. Mindfulness meditation is also free and can be practiced anywhere. Still, Zeidan said he hopes trainings can be made even more accessible and integrated into standard outpatient procedures.

"We feel like we are on the verge of discovering a novel non-opioid-based pain mechanism in which the

default mode network plays a critical role in producing analgesia. We are excited to continue exploring the neurobiology of mindfulness and its clinical potential across various disorders."

Co-authors include: Gabriel Riegner, Valeria Oliva and William Mobley at UC San Diego, as well as Grace Posey at Tulane University and Youngkyoo Jung at University of California Davis.

Story Source:

<u>Materials</u> provided by **University of California - San Diego**. Original written by Nicole Mlynaryk. *Note: Content may be edited for style and length.*

Journal Reference:

 Gabriel Riegner, Grace Posey, Valeria Oliva, Youngkyoo Jung, William Mobley, Fadel Zeidan. Disentangling self from pain: mindfulness meditation-induced pain relief is driven by thalamic-default mode network decoupling. Pain, 2022; Publish Ahead of Print DOI: <u>10.1097/j.pain.0000000002731</u>

Take care everyone.

With kindness

Pete

