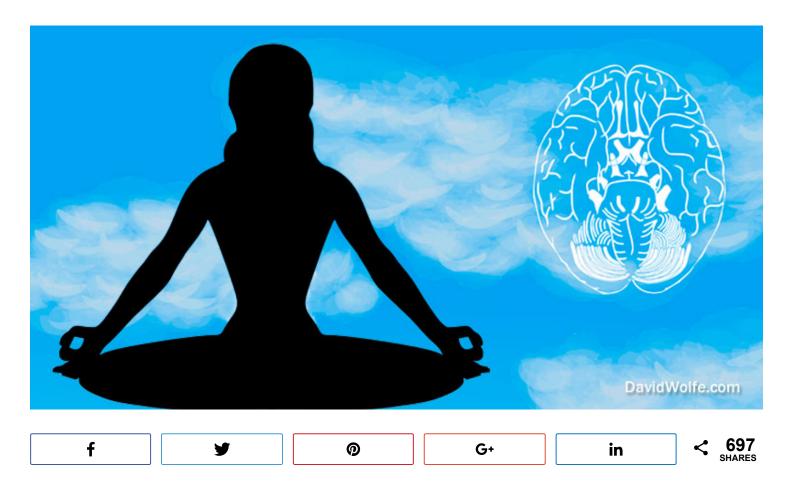


David 6 Walfe Harvard MRI Study Shows Meditation Rebuilds Brain's Grey Matter in 8 Weeks

<u>DavidWolfe.com (https://www.davidwolfe.com/author/dwstaffuser/)</u>



Surprising to some and maybe not to others, a new study has shown that 8 weeks of mindful meditation has measurably positive changes to the brain. "Participating in an eight-week mindfulness meditation program appears to make measurable changes in brain regions associated with memory, sense of self, empathy, and stress." (Harvard

(http://pawic harvard adii/azzatta/ctoni/2011/01/ajaht_waakc_to_a_hattar_

<u>viittp.//filevvs.fiai.vaitu.edu/gazette/stoi y/zoii/oi/eigitt-vveeks-to-a-bettei-</u> brain/))

They study is the first to document meditation-produced changes in the brain's grey matter over time. The team that conducted the study was lead by Harvard-affiliated researchers at Massachusetts General Hospital (http://www.massgeneral.org/) (MGH).

The study's senior author, <u>Sara Lazar</u>
(http://connects.catalyst.harvard.edu/profiles/profile/person/12961) of the MGH <u>Psychiatric Neuroimaging Research Program</u>

(http://www2.massgeneral.org/allpsych/psychneuro/psychneuroimaging.asp)
and a Harvard Medical School (http://hms.harvard.edu/hms/home.asp)
instructor in psychology, stated:

"Although the practice of meditation is associated with a sense of peacefulness and physical relaxation, practitioners have long claimed that meditation also provides cognitive and psychological benefits that persist throughout the day. This study demonstrates that changes in brain structure may underlie some of these reported improvements and that people are not just feeling better because they are spending time relaxing." (Harvard)

Overall, meditating is perfect for brain health!



(https://cdn.davidwolfe.com/wp-content/uploads/2015/11/brain-951847_1280-e1448397992545.jpg)

16

in previous studies, it was observed that there was a difference in brain structure between those who meditate and those who do not. Some

meditation practice.

For the current study, magnetic resonance images were taken of study participants two weeks before and after attending an eight-week

Mindfulness-Based Stress Reduction (MBSR) Program

(http://www.umassmed.edu/cfm/stress/index.aspx) at the University of Massachusetts Center for Mindfulness

(http://www.umassmed.edu/content.aspx?id=41252). In addition to weekly meetings about meditation, participants were given a recording to help them practice meditation on their own. There was also a control group present that did not practice meditation.

Meditation group participants reported spending an average of 27 minutes a day practicing mindfulness exercises. This is what researchers found:

- There was increased grey-matter density in the hippocampus, known to be important for learning and memory, and in structures associated with self-awareness, compassion, and introspection.
- Participant-reported reductions in stress also were correlated with decreased grey-matter density in the amygdala, which is known to play a significant role in anxiety and stress.

Additionally:

Although no change was seen in a self-awareness-associated structure

THE CONTRACT OF THE CONTRACT O

called the insula, which had been identified in earlier studies, the authors suggest that longer-term meditation practice might be needed to produce changes in that area.

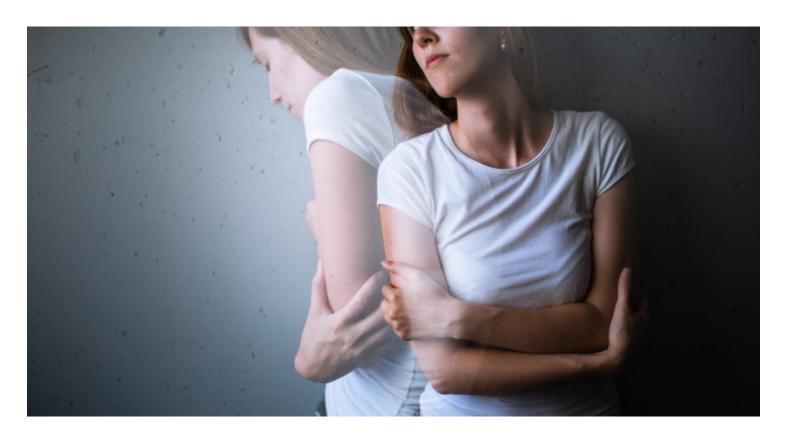
None of the participants from the control group experienced such changes.

Many professionals are delighted by the results of the study.

<u>Britta Hölzel (http://www.nmr.mgh.harvard.edu/~britta/)</u>, first author of the paper and a research fellow at MGH and <u>Giessen University</u>
(http://www.uni-giessen.de/cms/target-groups/welcome/view%3fset_language=en) in Germany stated:

"It is fascinating to see the brain's plasticity and that, by practicing meditation, we can play an active role in changing the brain and can increase our well-being and quality of life. Other studies in different patient populations have shown that meditation can make significant improvements in a variety of symptoms, and we are now investigating the underlying mechanisms in the brain that facilitate this change."





(https://cdn.davidwolfe.com/wp-content/uploads/2015/11/shutterstock_241966711-e1448398019553.jpg)

<u>Amishi Jha (http://www.amishi.com/lab/people/)</u>, a <u>University of Miami (http://www.miami.edu/)</u> neuroscientist who investigates mindfulness training effects on individuals in high-stress situations stated:

"These results shed light on the mechanisms of action of mindfulness-based training. They demonstrate that the first-person experience of stress can not only be reduced with an eight-week mindfulness training program but that this experiential change corresponds with structural changes in the

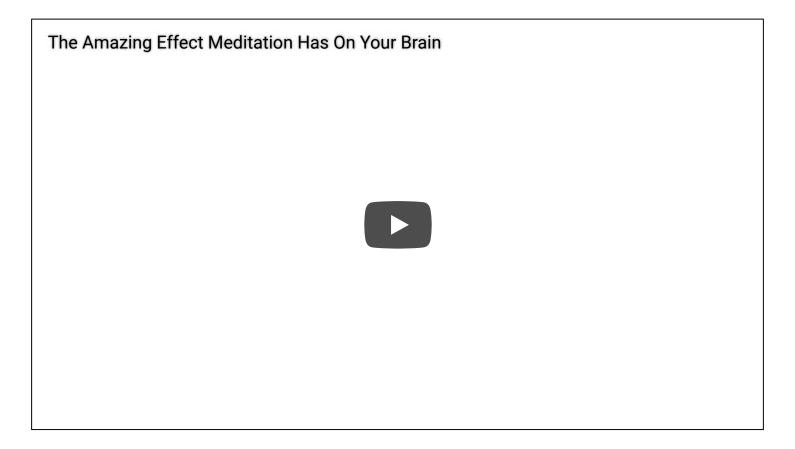
amygdala, a finding that opens doors to many possibilities for further research on MBSR's potential to protect against stress-related disorders,

שנוו מש אישני וומטווומנוג שנו בשש עושטו עבו.

Jha was not part of the study, but his words about using the findings to help treat PTSD are a huge breakthrough for millions of people.

Who is ready to start meditating?

Take a look at the video below for more information!



Sources:

http://news.harvard.edu/gazette/story/2011/01/eight-weeks-to-a-better-brain/





Eat 3 Dates Daily and These (https://www.davidwolfe.com/ear 5 Things will Happen to Your 3-dates-daily-5-things-your-Body! body/)





(https://www.davidwolfe.com/whatis-wine-doing-to-your-face-howbad-diet-habits-destroy-yourcomplexion/)

You Might Also Like





(<u>https://www.davidwolfe.com/4-simple-ways-stop-overthinking-find-peace/</u>)

<u>4 Simple Ways to Stop Overthinking and Find Peace! (https://www.davidwolfe.com/4-simple-ways-stop-overthinking-find-peace/)</u>

Many people are overthinkers, and that isn't necessarily...



(https://www.davidwolfe.com/3-ways-release-negative-emotions/)

3 Ways To Release Negative Emotions Before They Make You Sick! (https://www.davidwolfe.com/3-ways-release-negative-emotions/)

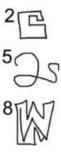
A lot of people are of the mindset...



(https://www.davidwolfe.com/7-rituals-highly-sensitive-people/)

7 Self-Care Rituals for Highly Sensitive People (https://www.davidwolfe.com/7-rituals-highly-sensitive-people/)

Many might believe that highly sensitive people just...



(https://www.davidwolfe.com/symbol-learn-message-future/)

<u>Choose A Symbol To Learn Your Message For The Future!</u>
https://www.davidwolfe.com/symbol-learn-message-future/)

Are you seeking some guidance for the road...



(https://www.davidwolfe.com/children-adhd-learning-meditation/)

<u>This Is Why Children With ADHD Are Learning Meditation</u>
(https://www.davidwolfe.com/children-adhd-learning-meditation/)

Since 2010, sales of ADHD medications have risen...



/https://www.dovid.volfo.com/F reasons lide maditate ashael/

<u>(FILLDS.//WWW.GaviGWOLIE.COFF)/ D-FEASOFIS-KIGS-FRIEGILALE-SCHOOL/)</u>

<u>5 Reasons Why Kids Should Meditate at School! (https://www.davidwolfe.com/5-reasons-kids-meditate-school/)</u>

In college, I once had a professor who...



About DavidWolfe.com

This article, written by our staff, is free and open source. You have permission to republish this article under a Creative Commons license with attribution to the author and DavidWolfe.com (/).

Comments

January 11, 2016 at 8:08 pm (https://www.davidwolfe.com/meditation-rebuildsbrains-gray-matter-in-8-weeks/#comment-1684)



Sandi

Why is there no date on this article? Was it written in 2011, the year shown for the Harvard study?

<u>Log in to Reply (https://www.davidwolfe.com/wp-login.php?</u> <u>redirect_to=https%3A%2F%2Fwww.davidwolfe.com%2Fmeditation-</u>

rebuilds-brains-gray-matter-in-8-weeks%2F)

You must be <u>logged in (https://www.davidwolfe.com/wp-login.php?</u> <u>redirect_to=https%3A%2F%2Fwww.davidwolfe.com%2Fmeditation-rebuilds-brains-gray-matter-in-8-weeks%2F)</u> to post a comment.

Copyright © 2018 <u>DavidWolfe.com (https://www.davidwolfe.com)</u> · All Rights Reserved ·