

Study suggests daily meditation slows brain aging

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A team of researchers from the University of Wisconsin-Madison and Harvard Medical School has found evidence that suggests meditating daily may slow brain aging. In their paper published in the journal

Neurocase, the group describes their study of a Buddhist monk who meditates daily and what they learned from him.

The work involved studying the [brain](#) of Yongey Mingyur Rinpoche, a 41-year-old Buddhist Tibetan monk who has practiced [meditation](#) nearly every day of his life. Over his lifetime, Yongey Mingyur Rinpoche has demonstrated an above-average ability to meditate, and graduated to teaching the practice to others many years ago. The team at the Center for Healthy Minds at the University of Wisconsin-Madison wondered if living such a life might have had an impact on the monk's brain, and if so, what sort of impact.

To find out, the researchers scanned Yongey Mingyur Rinpoche's brain via an MRI machine four times over the past 14 years. Over the same period, the researchers also obtained MRI brain scans of a [control group](#) consisting of 105 other adults from the local area who were near in age to Yongey Mingyur Rinpoche. The researchers then submitted all of the brain scans to an AI system called the Brain Age Gap Estimation (BrainAge) framework. It had been taught to make educated guesses of a person's age by looking at brain scans. It does its work by noting the structure of gray matter in the brain, which lessens in mass as a person ages.

The BrainAge system estimated Yongey Mingyur Rinpoche's age to be 33; others in the control group fell into what the team described as the "typical aging band." The researchers interpreted this result as evidence of his brain aging at a slower rate than the control group. The researchers note that the BrainAge system did find some parts of Yongey Mingyur Rinpoche's brain that had aged in ways similar to the control group, suggesting that brain aging differences between individuals may be due to coordinated changes throughout a person's gray matter. They also noted that they had found evidence showing that Yongey Mingyur Rinpoche's brain had matured earlier than the brains of the others in the

control group.

More information: Nagesh Adluru et al. BrainAGE and regional volumetric analysis of a Buddhist monk: a longitudinal MRI case study, *Neurocase* (2020). [DOI: 10.1080/13554794.2020.1731553](https://doi.org/10.1080/13554794.2020.1731553)

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