

## What Hiking Does To The Brain Is Pretty Amazing

Apr 11, 2016 By Michael W. Pirrone

From: Wimp.com

The great outdoors might just be greater than you think. There are plenty of us who love to spend as many hours of the day outdoors as we can, and hiking is obviously quite healthy for the body, but few of us ever give a lot of thought to how hiking could benefit our mental health as well. It turns out that hiking might just be your ticket to a brand-new brain, whether [you're passionate](#) about the outdoors, or just [force yourself](#) to take a stroll around your local park.

Recent studies about the effects of hiking and nature have been directed at understanding just how this recreational activity affects both the physiological and mental aspects of our brains. One of the main reasons for this glut of research is because we're spending so much less time outdoors, overall. The average American child now spends half as much time outside as compared to only 20 years ago. HALF. Only 6% of children will play outside on their own in a typical week. Conversely, kids are now spending almost 8 hours per day watching television, playing video games, or using a computer, tablet, or phone for recreational purposes. That number actually jumps up to 10 hours if you count doing two things at once! Overall, Americans now spend 93% of their time inside a building or vehicle.

So, what does this mean for human beings? Well, unless we get a little more proactive about embracing fresh air and dirt under our feet, the prognosis is pretty grim. The bright side is, as with all great medicine, when it comes to the outdoors, a little goes a long way.

### **Nature really does clear your head.**

According to a study published last July in Proceedings of the National Academy of Sciences, a 90-minute walk through a natural environment had a huge positive impact on participants. In a survey taken afterwards, those people who took the natural walk showed far lower levels of brooding, or obsessive worry. The control group who spent that 90 minutes walking through a city reported no such difference. Not only that, but the scientists went a step further and did brain scans of the subjects. They found that there was decreased blood flow to the subgenual prefrontal cortex. What in the world does that mean? Well, increased blood flow to this region of the brain is associated with bad moods. Everything from feeling sad about something, to worrying, to major depression seem to be tied to this brain region. Hiking deactivates it.

Psychologists Ruth Ann Atchley and David L. Strayer found in their 2012 study that after a four-day-long hike in the wilderness, with no access to technology, participants scored a whopping 50% higher on a test known as RAT, or Remote Associates Test. It's a simple way of measuring the creative potential in people. A series of three words are given, for instance, "same, tennis, and head." The test-taker has to find a fourth word that connects the first three. In this case, the answer is "match." A 50% increase is a huge leap up in performance by research standards. Problem-solving skills like this are thought to originate in the same area of the brain that we also use for selective attention and threat detection, meaning our ability to think creatively is being overwhelmed by the constant stimulus of digital, indoor living.

### **Hiking boosts your focus.**

Hiking is a pretty solid aerobic exercise that burns around 400-700 calories per hour. This is great on its own, but aerobic exercise also has a really positive effect on your brain: it improves your memory. It's even being studied as a way to help seniors fight off dementia, because it doesn't just increase your ability to store information, it also reduces memory loss. Outdoor activity has also been shown to improve grades, so it's a pretty solid choice all around for juicing your grey matter.

Advertisement

**Feel better about yourself, from your sweaty head down to your muddy boots.** According to a 2010 report in the Journal of Environmental Science and Technology, even getting out into nature for five minutes at a stretch is enough to give your self-esteem a substantial upgrade. Spending the entire day outdoors results in a second jump upwards! Walking near water seemed to have the biggest effect, so when planning your next hike, be sure to seek out a location with some great streams, rivers, or lakes.

Is hiking the solution to all of life's woes? Probably not. But what science is showing is that it's actually a pretty solid candidate for making everyone's lives a lot better, with very little input. If you already hike, good for you! If you'd like to start, find yourself a sturdy, comfortable pair of shoes or boots and head to a website like [EveryTrail](#), which can help you find your way to the nearest nature.

Be sure to **SHARE** this story with your friends and family!