

# Radical approach to migraine prevention

November 7 2017, by David Satterthwaite, Particle

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Cutting-edge work by Perth researchers may provide relief to tens of millions of migraine sufferers—with nothing more than a course of vitamins.

Migraines. Up to [15% of the population suffers from them](#), and they drain [uncounted millions of dollars a year](#) from the global economy in lost productivity. If you've never had one, you have no idea what it feels like. If you have, you're nodding along right now with knowledge of how utterly crippling they are.

Sitting comfortably near the top of any pain scale you may care to mention, it's not just the agonising pain that makes [migraine](#) the scourge of millions—it's the wide range of secondary effects they have on their victims. From [visual hallucinations to carbohydrate cravings, to severe nausea, mood swings, depression, dizziness and vertigo](#), there's almost as many unpleasant side effects as there are sufferers.

And there's no cure. Despite this being a disease known since [antiquity](#), the complexity of migraine means that finding a 'silver bullet' solution has evaded medical researchers. This has left sufferers to try a wide range of solutions to gain what relief they can.

Professor Eric Visser is inaugural Professor at the [Churack Centre for Pain Education and Research](#) at the University of Notre Dame, the first professorial university appointment for pain medicine in WA.

As one of Australia's leading pain specialists, Eric has decades of

experience with migraineurs and knows the limits of current treatment. Working with [Dr Eamon McDonnell](#), also from the University of Notre Dame, Eric decided to think outside of the box, looking for a more [radical](#) approach—a free radical approach, to be precise.

## Free radicals

"Free radicals seem to be very significant in causing disease, and we think, in migraine, free radicals may also be a part of why people develop migraine, as they're building up these free radicals in the brain and in the linings around the brain," said Eric.

Eric believes migraines are an evolutionary trait, connected to [hyper-sensitivity sensory capacities](#). This would have allowed migraine-suffering ancestors to warn their community of issues such as bushfires, impending weather changes and animal threats. He says [migraine sufferers](#) observably have 'jacked up' nervous and sensory systems. This makes them more sensitive to environmental changes than the average person, it's this sensitivity that is the key to migraine.

"The nervous system and the sensory system goes into overdrive and produces all these free radicals—the brain exhausts itself, causing a migraine," he says.

## The antioxidant solution

Working off this premise, Eric and Eamon developed a clinical trial to go right for these [free radicals](#), using antioxidants to 'hoover them up'. According to Eric, this should reduce the frequency and severity of migraine, both in terms of direct [pain](#) and side effects suffered.

And the best thing? The treatment is essentially a twice-daily dose of

vitamins and antioxidants. This is very cheap to produce and has an extremely low chance of any side effects. With the average migraineur losing thousands of dollars a year in time off work and expensive medications, a daily dose of vitamins sounds like a dream come true.

It's a dream that may be a reality quite soon indeed. Eric expects the results of the clinical trials in early 2018, possibly meaning millions of migraineurs never need to feel like Glenn in [that episode](#) of *The Walking Dead*.

This article first appeared on [Particle](#), a science news website based at Scitech, Perth, Australia. Read the [original article](#).

Provided by Particle

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