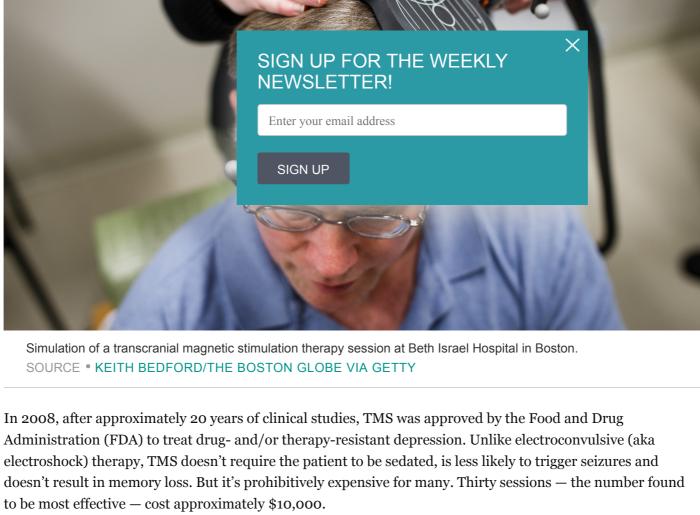
For three and a half months, every weekday morning was identical. A nurse practitioner would escort me from the locked psychiatric unit to a small room on the neurological unit, where I was seated in a large, dentist-style chair and a few electrodes were attached to my temples. A technician positioned a large metal coil against the

comfort of your home, and at affordable costs.

upper left portion of my skull, and then the tapping began.

By Heather Hughes JULY 6, 2019

Imagine a small woodpecker tapping against your skull rapidly for four seconds, pausing for 30 seconds and then resuming its persistent tapping for another four seconds. Imagine this pattern repeating for 45 minutes. It wasn't pleasant, but it wasn't painful either. I had volunteered for the experience, as part of a clinical study on transcranial magnetic stimulation, or TMS, at the National Institutes of Health in Bethesda, Maryland, after sliding into an unrelenting depression that didn't respond to medication. I was among the 30 percent of people who receive TMS and find it effective. Now, versions of that technology are increasingly available in the



PEOPLE CAN CONVINCE THEMSELVES IT [AN AT-HOME DEVICE] WORKS.

Enter at-home "brain-stimulating" devices, which can be purchased for as little as \$120. Over the past seven years, at least 12 firms making and selling at-home devices for the treatment of depression have emerged in

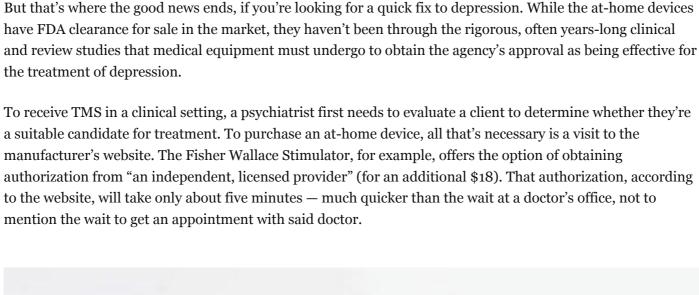
DR. BRUCE LUBER, STAFF SCIENTIST, NATIONAL INSTITUTE OF MENTAL HEALTH

the U.S. These firms — such as TCT Research, Super Specific Devices and Omni — are tapping into a huge market: Approximately 16 million people in the U.S. suffer from major depression. One such firm distributing neurostimulation devices, has seen "continuous growth, 60 to 70 percent in each sales quarter," says Robin Azzam, founder and CEO. He refers to the company as "the Amazon of neural modulation." Many of these firms sell devices that use a variant of TMS called transcranial direct current stimulation (tDCS), which creates much smaller currents that are safer for home use.



TMS uses a pulsed magnetic field to stimulate electrical activity in the prefrontal cortex, the part of the brain that in depressed people often shows considerably reduced activity compared with that of non-depressed people. And the engineering of at-home devices isn't very complicated. In fact, DIY engineers are using YouTube videos to demonstrate how you could build your own device — within 12 minutes.

Some companies, though, are more circumspect when it comes to the claims they make. Caputron's Azzam, for example, says his company takes "a very conservative approach in our marketing." The company doesn't tell customers what the devices may or may not be effective in treating, but it also doesn't ask customers what



Electromagnetic Therapy Offers Hope for Dep...

they're buying the devices for.



believe it's possible there will be breakthroughs that revolutionize how depression is treated. "Sometime down the road, these devices will be amazing ways to treat your depression at home," says Luber. "But we're not there yet."

Sort by Oldest \$

groups were all critical of the claimed efficacy of at-home devices. "A piece of junk," said one. "Not any different [from] those that can be used for back pain," said another. "It's not strong enough nor targeted

Any relief from depression offered by these devices at present will likely only be temporary, not long-term, says Luber. "People can convince themselves it [an at-home device] works," he says. "There's a big placebo

Still, for the millions of Americans desperate to find relief from the unrelenting misery of severe depression, it's often worth it to try new treatments that are still only partly proven — or, at times, even those that are

unproven. TMS, which is proven, is now covered by several medical insurance companies. But for those people with high deductibles — mine, for example, is \$5,000 — out-of-pocket expenses can reach several thousands of dollars before reimbursement kicks in. And as technology continues to advance, even skeptics such as Luber

enough," replied a third.

effect with depression."

Heather Hughes, OZY Author

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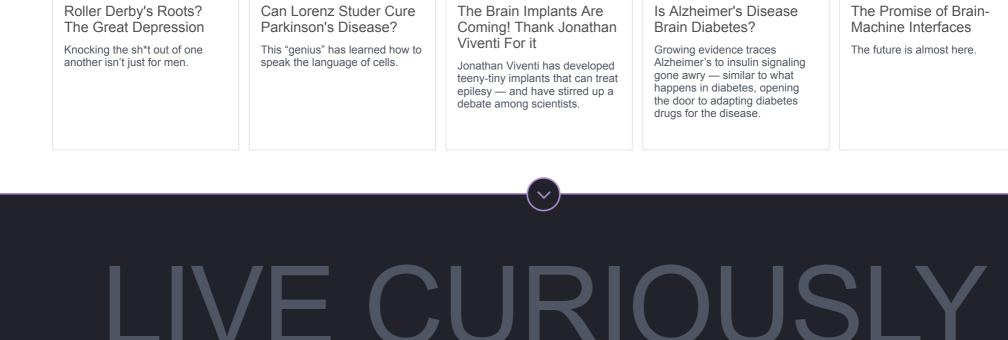
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