

Study Reports Patients More Likely to Wear ‘CPAP’ Mask After Watching Video of Their Own Struggle to Breathe

Watching the video resulted in an average of three hours of additional therapy per night

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DENVER — Like more than 20 million other Americans, John Brugger has been diagnosed with [sleep apnea](#). He snored, tossed and turned, and struggled to breathe during the night, which often left him not only exhausted the next day, but also raised his risk of heart attack, stroke and car accidents. Fed up, Brugger went to his doctor, who suggested he use a CPAP machine, which delivers air through a face mask while he sleeps to keep his throat open with [continuous positive airway pressure \(CPAP\)](#).

Brugger tried it a few times, but like more than half of those who get CPAP machines, he simply stopped using it. “I didn’t like it, honestly,” said Brugger, a father of five from Commerce City, Colo. “It was bulky, and I had a hard time getting to sleep with it on my face,” he said.

But after watching a dramatic and disturbing video of himself trying to sleep *without* his CPAP mask, Brugger has had a change of heart. “Now I can’t go to sleep without it. I won’t even take a *nap* without it,” he said.

The video was part of a study led by [Mark Aloia, PhD](#), a sleep expert at [National Jewish Health](#) in Denver. Dr. Aloia recently presented preliminary findings from the study during the annual meeting of the Associated Professional Sleep Societies.

At first, researchers showed patients videos of other people who struggled to breathe while sleeping without their masks. “Their reaction was ‘Wow, that’s really bad,’ and then probably internally some of them would say, ‘but *I’m* not like that,’” Aloia said. “Then we thought, why don’t we show people video from their *own* sleep study and see what the effect is?”

Turns out, the effect was dramatic. “People who watched themselves gasping and struggling to breathe with sleep apnea used their CPAP machines three hours more per night than those who saw no video, and nearly two and a half hours more than those who watched a video of another patient with sleep apnea,” said Aloia. “We really created a personal sense of urgency in these patients in order to change their behavior.”

In the video, patients watched themselves writhe and periodically gasp for air during the night. “It was a powerful moment in my life,” said Brugger. “It made me cry watching it, and to see myself basically drowning in my sleep, made me very determined to fix that.”

That was Aloia’s objective from the outset. “Sleep apnea is one of those disorders you never really notice in yourself,” said Aloia. “I mean, you’re asleep; you’re consciously not aware of what’s happening to you.”

Left untreated, sleep apnea has been linked to serious medical conditions, including depression, diabetes, heart disease and even cancer. It also raises the risk that a tired sleep apnea patient will fall asleep at the wheel and have a car accident.

“We somehow had to find a way to convince these patients of the urgency of their condition,” said Aloia. “The shocking part was that patients actually got very emotional. Sometimes we’d have men, who had never really thought of themselves having a problem, being tearful.”

John Brugger was one of them. “I’ve been wearing my CPAP since the day I saw that video,” he said. “It changed my life. I wish I’d done it 20 years ago.”

National Jewish Health is the leading respiratory hospital in the nation. Founded 123 years ago as a nonprofit hospital, National Jewish Health today is the only facility in the world dedicated exclusively to groundbreaking medical research and treatment of patients with respiratory, cardiac, immune and related disorders. Patients and families come to National Jewish Health from around the world to receive cutting-edge, comprehensive, coordinated care. To learn more, visit the media resources page.

Media Contacts

Our team is available to arrange interviews, discuss events and story ideas.

Jessica Berry
303.398.1082
berryj@njhealth.org

Sean Andersen-Vie
303.398.1002
andersenvies@njhealth.org