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JOINT INVESTIGATION BY PG AND PROPUBLICA PART 3 IN A SERIES WITH EVERY BREATH



Photos by Benjamin B. Braun/Post-Gazette and Liz Moughon/ProPublica After a June 2021 recall of millions of Philips breathing machines, patients waited for safe replacements. They said they had no idea the new devices are still being scrutinized for safety risks by federal regulators. Clockwise from left: David Campano, Richard Callender and Debra Miller.

## COMBATIVE CONGRESS FACING KEY TERM

Taxes, impeachment and shutdown on the agenda

By Jonathan D. Salant and Benjamin Kail Pittsburgh Post-Gazette

WASHINGTON — After one of the most unproductive sessions in history, Congress returns Jan. 8 with a long checklist of must-do items and a presidential impeachment and government shutdown looming once again.

Only 34 bills were signed into law last year, according to the Library of Congress. That's the smallest number going back to 1951.

Instead, the House took five days and 15 votes to elect a speaker — the longest since 1859 — and then later deposed its leader for the first time in history. It took three weeks for House Republicans to choose a successor.

Looming over the Capitol all next year will be the 2024 elections, in which both the Senate Democratic and House Republican majorities are endangered, and President Joe Biden is running neck-and-neck with the frontrunner for the Republican nomination, former President Donald Trump.

Here are seven items on the agenda for the second session of the 118th Congress:

**Avoiding a government shutdown.** Here we go again.

SEE CONGRESS, PAGE A-7

## Loss leaves PTC with few options

Oakdale technical school considers refinancing, sale

By Evan Robinson-Johnson Pittsburgh Post-Gazette

Pittsburgh Technical College lost \$8 million in net assets for the fiscal year ending June 2023 and the school may not recover, according to a Dec. 11 audit of the school's financial statements obtained by the Post-Gazette.

"The college's recurring operations losses and reduction in net assets raise substantial doubt about the college's ability to continue," the audit states.

The 75-year-old college in Oakdale received \$20 million in COVID relief but lost \$14 million in revenue from declining enrollment in the fiscal year that ended in June, the audit found. The school responded by significantly cutting operating expenses, a move that "may not be practical" in the years ahead, according to the McClintock & Associates analysis.

Recently, the school received a forbearance on its bonds and engaged the

SEE PTC, PAGE A-7

# A TROUBLED RECALL

Chemicals of 'concern' found in replacement breathing machines raise new alarms in wake of massive Philips recall

By Michael Sallah and Evan Robinson-Johnson Pittsburgh Post-Gazette

Debbie Cenziper ProPublica



MORE ONLINE

Scan the QR code for an interactive presentation, which includes more stories, visuals and data about this year-long investigation

**O**n the morning of June 14, 2021, Dr. Radhika Breden hurried to a computer in her hushed sleep disorders clinic and tried not to panic.

The 52-year-old physician treated patients with heart conditions, cancer and neurological diseases. She cared for veterans with compromised lungs and a woman with Down syndrome. In more than a dozen years of helping people breathe through the night, she

had never confronted an emergency that jeopardized nearly all of her patients at once.

Global device maker Philips Respironics was pulling its popular sleep apnea machines and ventilators off the shelves after discovering that an industrial foam built into the devices to reduce noise could release toxic particles and fumes into the masks worn by patients.

Dr. Breden scoured the internet for details, certain that Philips had a plan to quickly ship new, safe machines to the thousands of people under her care at the Portland, Ore., clinic. "It's a multibillion-dollar, multinational company," she recalled telling her staff.

But as Philips publicly pledged to send out replacements, supervisors inside the company's headquarters near Pittsburgh were quietly racing to manage a new crisis that threatened the massive recall and posed risks to patients all over again.

Tests by independent laboratories retained by Philips had found that a different foam used by the company — material fitted inside the millions of replacement machines — was also emitting dangerous chemicals, including formaldehyde, a known carcinogen.

Though Philips has said the machines are safe, the Pittsburgh Post-Gazette and ProPublica obtained

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## Fitzgerald wrapping up unprecedented run

Challenged by COVID-19, criticized over jail, 12-year executive reshaped county's top job

By Steve Bohnel and Mike Wereschagin Pittsburgh Post-Gazette

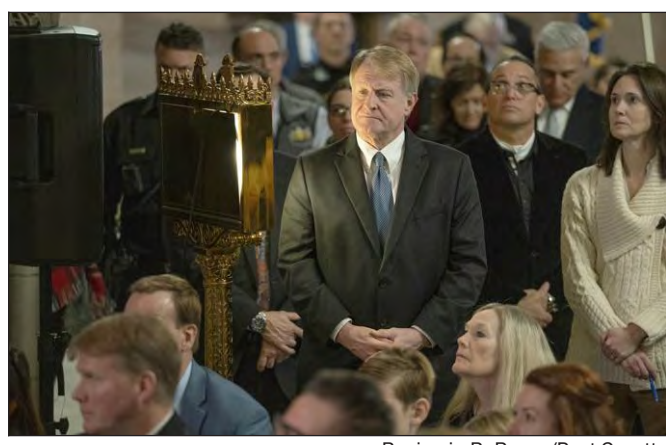
In mid-March 2020, against the backdrop of a wooded park, Dr. Debra Bogen joined Rich Fitzgerald in an official Allegheny County-produced video.

She had been named county health director less than three weeks before — and now she and the county executive were preparing for perhaps their greatest challenge as public officials: keeping residents safe during a global

pandemic. "The information that Dr. Bogen and the medical experts have given us is chilling," Mr. Fitzgerald said. "And it's a challenge unlike anything we've faced before in this region." The World Health Organization had declared the pandemic on March 11.

In the coming months, Mr. Fitzgerald would lean on Dr. Bogen for advice about rapidly changing health data and shifting guidance from the federal government as he

SEE FITZGERALD, PAGE A-6



Benjamin B. Braun/Post-Gazette As his term as Allegheny County executive neared its end, Rich Fitzgerald attended the oath of office ceremony Dec. 21 for county President Judge Susan Evashavik DiLucente.



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Weather Daytime high, 40; tonight's low, 33. Page A-20

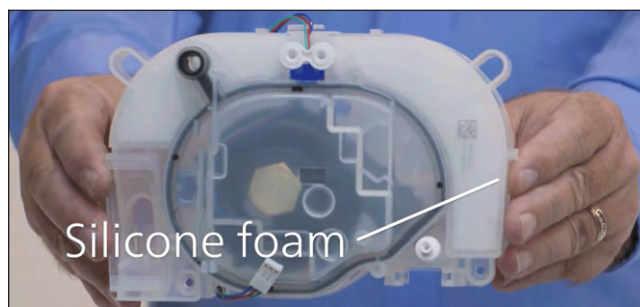
Almanac ..... A-2 Books ..... D-5 Bridge ..... G-8 Business ..... E-1 Crosswords ..... G-8

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Philips

Philips says the new material placed inside replacement machines to reduce noise is safe and has undergone extensive tests. Experts who reviewed test results for the Post-Gazette and ProPublica say they are concerned because of the presence of formaldehyde at levels that exceed safety thresholds set by multiple organizations. The chemical has been linked to respiratory problems and some cancers.

## Chemicals of 'concern' found in replacement machines raised alarm

RECALL, FROM A-1

test results and other internal records that reveal for the first time how scientists working for the company grew increasingly alarmed and how infighting broke out as the new threat reached the highest levels of the Pittsburgh operation.

The findings also underscore an unchecked pattern of corporate secrecy that began long before Philips decided to use the new foam.

The company had previously failed to disclose complaints about the original foam in its profitable breathing machines, a polyester-based polyurethane material that was found to degrade in heat and humidity.

Former patients and others have described hundreds of deaths and thousands of cases of cancer in government reports.

After the introduction of the new foam in 2021, this one made of silicone, the company again held back details about the problem from the public even as it sent out replacement machines with the new material to customers around the world.

One of the devices was the DreamStation 2, a newly released continuous positive airway pressure, or CPAP, machine promoted as one of the company's primary replacements.

Federal regulators were alerted to the concern more than two years ago but said in a news release at the time that the company was carrying out additional tests on the foam and that patients should keep using their replacements until more details were available. The Food and Drug Administration has not provided new information on the test results since then, and it is still unclear whether the material is safe.

That leaves millions of people in the United States alone caught in the middle, including those with sleep apnea, which causes breathing to stop and start through the night and can lead to heart attacks, strokes and sudden death.

Philips "let me down all this time and now they're just doing it again," said 56-year-old retired nuclear engineer Richard Callender, who recently started using one of the replacement devices in his home near Pittsburgh.

Public health experts interviewed by ProPublica and the Post-Gazette said it's critical that patients using

the machines are told about the potential risks.

"It's a question of providing the facts," said Dr. Robert Steinbrook, director of the health research group at the nonprofit Public Citizen and an adjunct professor at the Yale School of Medicine. "The assumption is the new machines and the refitted ones are OK, that the foam issue has been 100% resolved. That's not the case."

The new foam isn't the only problem: An internal investigation at Philips launched in the months after the recall found that water was condensing in the circuitry of the DreamStation 2, creating a new series of safety risks.

"Loss of therapy, thermal events, and shock hazards," the investigation concluded.

The FDA issued an alert about overheating last month, warning that the devices could produce "fire, smoke, burns, and other signs of overheating" and advising patients to keep the machines away from carpet, fabric and "other flammable materials."

Philips has said that customers could continue using the devices if they followed safety instructions.

In response to concerns about the silicone foam, the company said the material was tested against safety limits recognized by the FDA and the World Health Organization and did not emit chemicals at unsafe levels. Philips said formaldehyde, found in common household items, only becomes a risk at high exposure.

"The repaired and new replacement devices with the silicone sound abatement foam are safe," and findings that conclude otherwise are "inaccurate," the company said in a statement.

Philips said additional test results were submitted last year to the FDA, but the agency has not yet provided a response.

In a statement, the FDA said more tests are needed on the foam before determining if the devices pose "risks to patients."

Experts who reviewed the test results for the news organizations said the findings revealed troubling markers, including the presence of formaldehyde at levels that exceed safety thresholds established by multiple organizations. Thresholds vary, they said, and those cited by Philips allow for far higher formaldehyde levels than

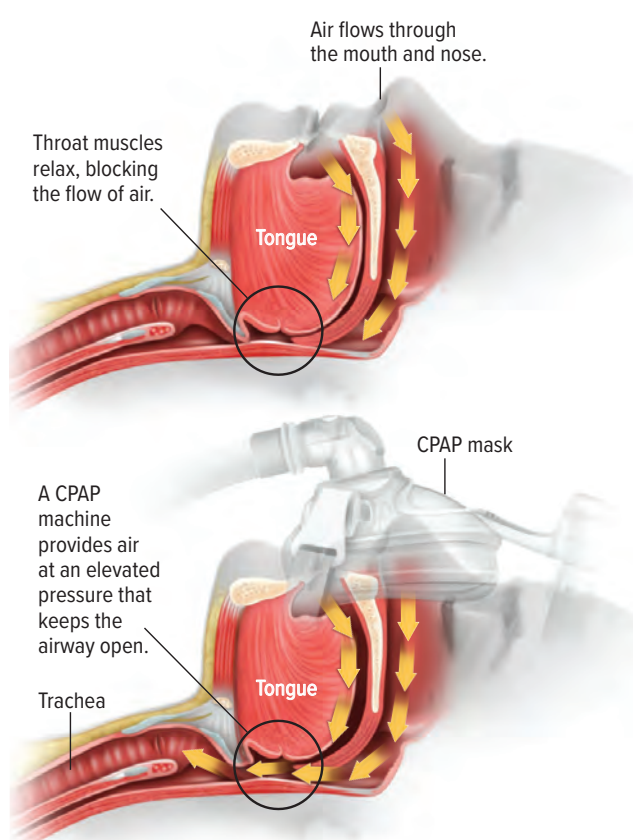


Liz Moughon/ProPublica

Dr. Radhika Breaden, a sleep medicine doctor in Portland, Ore., said thousands of her patients were using Philips machines when the company announced a recall in 2021. The sleep medicine doctor said she needs more information from the company and the government.

### Sleep apnea explained

Obstructive sleep apnea occurs when throat muscles relax, the upper airway collapses and the airflow into the lungs is blocked. The disorder causes people to repeatedly start and stop breathing while they sleep and can be treated with a CPAP (continuous positive airway pressure) device.



Source: Mayo Clinic, National Institutes of Health

Ed Yozwick/Post-Gazette

others.

Safety thresholds also do not take into account patients who are already suffering from chronic illnesses and breathing from devices that emit fumes directly into the lungs.

The experts said that one of the most vexing concerns is that formaldehyde — linked to respiratory problems and certain cancers — showed up in multiple tests and at varying levels, at times low and at others higher.

"Who knows what a patient could be exposed to?" said an engineer familiar with the testing who still works in the industry and did not want to be identified for fear of reprisals. "If you had grenades and you're not sure where they're going to go off, that's a problem."

After questions from the Post-Gazette and ProPublica — and more than two years after the problem surfaced — the company put out a more detailed explanation about the issue late last week.

Documents related to the company's testing have been turned over to the Department of Justice, which launched an investigation of the recall last year, according to sources familiar with the probe.

Philips has said that it is cooperating with investigators and that the company initially did not believe that complaints dating back more than a decade about the recalled machines needed to be reported. The company said it took action as soon as it learned of the significance of the problem.

Dr. Breaden, the Portland physician, said she had no idea that new problems have emerged and now worries that doctors and patients have been once again left to fend for themselves.

"There's just a lot of things that we're all being kept in the dark about," she said.

### 'COMPOUNDS OF CONCERN'

The trouble with the replacement machines surfaced shortly after the June 2021 recall, which sent the

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**"There's just a lot of things that we're all being kept in the dark about."**

**Dr. Radhika Breaden**  
Sleep medicine doctor in Portland, Ore.

company's stock prices tumbling and led to hundreds of lawsuits by Philips customers.

An FDA inspection of the firm's manufacturing plant near Pittsburgh turned up a surprise discovery: a copy of a test that an independent lab conducted on a CPAP machine with the new foam showing results that the agency had not previously seen, public records show.

An inspector later noted in a report that the machine failed emissions testing because it produced "compounds of concern" with carcinogenic properties and that pediatric patients who use the machines could be especially vulnerable.

At the time, the FDA said it carried out a "benefit-risk assessment" and decided that until more information became available, not using the devices at all "maybe be more harmful to a patient's health."

One of the chemicals that turned up in the testing was formaldehyde, which also showed up on a second set of test results from another lab in August, records and interviews show.

That fall, the company opened an internal investigation after receiving complaints about the DreamStation 2. Engineers evaluated 97 devices and found that about one in five showed evidence of moisture and that nine had experienced "thermal events," according to the company's report.

Though the investigation concluded the problem could cause the machines to stop working or shock patients while in use, Philips deemed the risk "acceptable" and said "containment activities" were unnecessary, the records show.

In the months that followed, Philips forged ahead. With pressure mounting to meet the needs of customers, the company promised that everyone affected by the recall would get a replacement machine or a repaired one within a year.

At the time, hospitals and medical practices were waiting on the devices. So was the Department of Veterans Affairs, where an urgent

alert in late 2021 warned that the supply of CPAPs was "critically low."

"Warehouses are currently out," the agency said in an internal email. "Level red."

The wait forced some sleep apnea patients to place a dangerous bet. In suburban Pittsburgh, Mr. Callender continued to use his recalled CPAP for months.

He said he couldn't get a new one from Philips even though he had a double lung transplant in 2015 and a kidney transplant in 2021.

"I told them I was in dire need," said Mr. Callender, a former mayor of Lower Burrell, who eventually started using an old machine that he had stashed in a bedroom closet. "Never heard back from Philips."

Mr. Callender said he had no idea he was waiting on a machine that was fitted with a foam still under review by regulators.

"They failed me on so many levels," said Mr. Callender, who received a replacement machine from Philips several weeks ago.

In the spring of 2022, as Philips continued to ship out replacements filled with the new foam, the company had a series of meetings with the FDA to discuss the ongoing testing.

Jeff Shuren, the agency's chief regulator of medical devices, was directly involved, writing to Philips in May about test results that the company had promised but not yet delivered to the agency, according to emails obtained through a public records lawsuit filed against the FDA by ProPublica and the Post-Gazette.

"This is especially important," Dr. Shuren emailed the company.

The records do not make clear what transpired in those meetings, but more than a year later, the FDA has continued to advise patients that the agency will provide information on the testing when it becomes available.

While the FDA was meeting with Philips, tensions flared among the company's scientists and managers responsible for handling the crisis, interviews and internal communications show.

Philips "didn't believe the results," said the engineer familiar with the testing. "The Philips folks gnashed their teeth at it and they went to test more devices."

The Post-Gazette and ProPublica obtained communications sent by a scientist at Philips who was alarmed about test results showing formaldehyde over the "threshold for safe exposure." "FDA has the data. Are they just waiting for the final report from Philips? How is this sustainable?"

Though the chemical tends to quickly dissipate, experts say that even brief exposure at high levels can pose serious risk to patients who are already vulnerable, including infants, the elderly and others with chronic illnesses.

In June 2022, then-Philips biological safety engineer Adam Majka sent an email to several colleagues, writing, "We need to start finalizing reports where we have acceptable results and we do not expect further changes."

<p align="center"><b>CAPA Detailed Report</b></p>	
<p align="center">PR ID: 1299367</p>	
<p align="center">State: Investigation</p>	
<p align="right">Page 5 of 12</p>	
<p>DSX510T11C      DS2 Auto CPAP w/Humid+HT cell/BT</p>	
<p><b>Comm. to other Comp. Domains:</b> Communication to the Legal and Privacy groups is not required; this nonconformance has not caused/contributed or is not likely to cause/contribute to a death or serious injury. In addition, there has been no unauthorized release of Personal Data.</p>	
<p align="center"><b>Assessment</b></p>	
<p><b>Risk Assessment:</b> The safety risks associated with water ingress and the associated failures it can cause are captured in the Pinnacle Risk Management File (ER 2233162, v06). The presence of water in the device circuitry (PCA or blower box area) can cause various issues including, but not limited to, <b>loss of therapy, thermal events, and shock hazards</b>. No adverse events have been reported that can be linked to this failure mode. It has been determined after review of the Risk Management File that the risk acceptability ratings are accurate and remain at acceptable levels. Implemented risk control measures are effective for reducing and controlling risk as shown in the residual risk level of the Hazards Analysis. No changes to the risk management files are required at this time.</p>	
<p><b>Risk Management Summary:</b> <input checked="" type="checkbox"/> No Product Risk</p>	
<p><b>Risk File Attachment:</b></p>	

Philips found yet another problem during the recall of its breathing machines: Water was condensing in the circuitry of the DreamStation 2, one of the replacement devices sent to patients in need of new devices. Though the water could cause "shock hazards" and other problems, the company said the risks were at acceptable levels.



FDA

The Food and Drug Administration, which polices the medical device industry, said patients can continue to use the Philips replacement devices, but Philips needs to continue to test the new foam used in the machines to ensure there are no risks to patients.

SEE RECALL, PAGE A-11

JOINT INVESTIGATION BY PG AND PROPUBLICA

WITH EVERY BREATH

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Richard Callender, who takes more than a dozen prescribed medications, said he started using an old CPAP that he stashed in a bedroom closet while he waited for his replacement device. "They failed me on so many levels," he said.



Benjamin B. Braun/Post-Gazette photos

Richard Callender, a 56-year-old retired nuclear engineer and former mayor of Lower Burrell, said he waited more than two years to finally get a replacement device from Philips for his sleep apnea. Despite receiving a double lung transplant in 2015 and a kidney transplant in 2021, he said he could not get the company to send him a replacement device sooner. Mr. Callender said he was surprised to learn that even the new foam in the replacement devices is subject to safety testing because of concerns. "They let me down all this time and now they're just doing it again," he said.

## RECALL, FROM A-10

One of the recipients was Denver Faulk, a senior safety engineer at Philips who was charged with helping to lead the company's response, according to interviews and emails.

That same month, Philips put out an update saying that draft test reports on the foam had "not identified any safety issues."

Around that time, Mr. Faulk sent an internal message about a safety threshold for formaldehyde proposed by Philips to one of the independent labs brought on by the company.

Toxicologists can assess the level of cancer risk against different thresholds used by scientists, governments and others; the same device can pass one test but fail another depending on the threshold. In his message, Mr. Faulk said the lab had accepted a benchmark proposed by Philips.

"Great news. ... They are updating all of their reports accordingly," Mr. Faulk wrote. "A big win for the team!"

In its statement, Philips said it proposed a limit used by the World Health Organization to provide a "harmonized" threshold at the company's testing labs.

That threshold allows for far higher formaldehyde emissions than benchmarks used by other organizations, including the Environmental Protection Agency.

Neither Mr. Faulk nor Mr. Majka responded to requests for comment.

## PLEAS FOR HELP

As lawmakers call on federal investigators to hold Philips accountable, Connecticut Attorney General William Tong said he wants the FDA, not the company, to oversee the testing.

"People are suffering," said Mr. Tong, who, along with Sen. Richard Blumenthal, D-Conn., wrote to the agency last year urging aggressive enforcement against Philips. "We don't know enough about what's happening with the silicone to make a judgment about it and so we're still very concerned."



Liz Moughon/ProPublica

Debra Miller hugs her granddaughter, Mae. In 2019, Ms. Miller, while driving Mae, then 2, had a car accident. She was diagnosed with sleep apnea and daytime narcolepsy and began using a Philips machine soon afterward.

d) No risk analysis, health hazard evaluation, or design review was documented as a result of an A Series CPAP device, containing silicone foam, failing Volatile Organic Compound (VOC) testing as part of ISO 18562-2 and 18562-3 testing.

Test Report Number 600253-RP-12 (Rev A), dated 08/24/2021, documents that an A Series CPAP device failed VOC testing as part of ISO 18562-2 and 18562-3 testing. Test Report Number 600253-RP-12 (Rev A) documents that (b) (4) compounds of concern (COCs) were identified, and (b) (4) compounds were confirmed, due to their carcinogenic/mutagenic properties. Additionally, Report Number 600253-RP-12 (Rev A) documents that pediatric patients would potentially be exposed to higher concentrations of compounds of concern, if they utilized an A Series CPAP device for sustained periods of time.

An FDA inspection report in 2021 included information about a test that was performed on the new silicone foam — the same material now being used in the replacement machines. The result: the foam failed emissions tests for "compounds of concern."

cerned."

Patients say they have received little or no information about the issue. Hundreds have reported other concerns to the government, including the delivery of refurbished devices that were missing parts or had foul odors.

"Completely unusable," one customer wrote last year. "It emitted an extremely ... nauseating smell. I was so sick I got up and did not sleep the rest of the night."

Others described long waits for their replacements. Hundreds of thousands of people were still waiting on their machines in April, nearly two years after the recall, according to the com-

pany's website.

"I wanted to go there and throw the machine right through the window," said David Campano, 71, a former steelworker who continued to use his recalled CPAP for months while he waited on a replacement from the sprawling Philips factory only miles from his home near Pittsburgh.

In the suburbs of Atlanta, retired elementary school teacher Debra Miller emailed Philips last year after endless rounds of automated responses as she tried to figure out when she would get a new machine.

A few days later, she said, a package arrived at her home containing the motor of a new machine, but no

electrical cord, explanation or instructions for use.

"Dumped in a box," said Ms. Miller, 70, who taught for 30 years. "I literally got ... half of an old machine."

Ms. Miller said she had no idea that the machine she was waiting on came with its own risks.

Philips said the recall required the company to reach millions of patients and was complicated by supply chain challenges. In some cases, CPAP motors were delivered without other parts to "enable the easiest and most familiar replacement option," the company said, adding that the replacement plan for sleep apnea machines is nearly complete in the United States.



Liz Moughon/ProPublica

Retired teacher Debra Miller of suburban Atlanta pressed Philips for months to send her a replacement machine after the recall, but when it finally arrived, it lacked a power cord and instructions.



Daniel Rosenbaum/The New York Times

Jeff Shuren, seen here in 2010, the FDA's top regulator of the medical device industry, pressed Philips for more information last year about the company's testing of the silicone foam.

In the early days of the recall, Dr. Breaden and her team at the sleep clinic in Portland were focused only on getting new machines to the thousands of patients who used them night after night.

Just beyond a waiting room with a framed message, "Healthy people get their sleep," Dr. Breaden said she now worries about an entirely new set of problems.

After learning about the test results on the new foam from the Post-Gazette and ProPublica, the sleep medicine doctor who had been personally using a DreamStation 2 said she needs more information from the company and the government.

"I'm prescribing air. It's wonderful to prescribe something that has no side effects and can help with your sleep," she said. "It's sad not to be able to say that anymore."

*Post-Gazette data investigative reporter Michael Korsh contributed to this report. Michael D. Sallah: msallah@post-gazette.com. Evan Robinson-Johnson: ejohnson@post-gazette.com. Debbie Cenziper is an investigative reporter at ProPublica and director of Northwestern University's Medill Investigative Lab. Margaret Fleming, Nicole Tan, Bridgett Adu-Wadier and Susanti Sarkar with the Medill Investigative Lab also con-*

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