HEALTH

# Feeling SAD? Light therapy lamps can ease seasonal depression.

The devices are designed to mimic the light 'that comes from the sky at sunrise on a clear day'

Allyson Chiu and Lizzy Raben Washington Post

For some people, the beginning of win-The shorter, darker days trigger a notice-able shift in their mood and behavior, causing what's known as seasonal affec-

causing what's known as seasonal affec-tive disorder, or SAD. And this winter, the onset of SAD may be exacerbated by the coronavirus pandemic. "Folks are noticing (seasonal depres-sion) a lot more because of trying to main-tain their social distancing and quar-antine and follow the rules related to stay-at-home," said Dorothy Sit, an asso-ciate professor of psychiatry and behav-ioral sciences at Northwestern University's Feinberg School of Medicine. Seasonal affective disorder, which

Feinberg School or Medicine. Seasonal affective disorder, which recurs annually, is a form of clinical depression and has the same symptoms. These can include feelings of sadness, loss of interest in activities you once enjoyed. difficulty concentrating, fatigue and, in extreme cases, thoughts of suicide or death. But experts say there is a simple and effective treatment: light therapy, deliv-

ered via specially designed lamps. "It can be transformational," said Norman Rosenthal, who led the team of researchers that first described SAD in the 1980s and helped develop light ther-apy as a treatment option. "When it really works, it can make you feel so much bet-ter. It's amazing. Your energy comes back, your mood improves, your view of life improves." Here's what you need to know about light

therapy and the lamps used to deliver it.

**WHAT ARE SAD LAMPS?** Bright light boxes, also called SAD lamps, are designed to produce light that mimics the "light intensity that comes from the sky at sunrise on a clear day," said Kelly Rohan, a professor of psychologi-cal science at the University of Vermont. "What we're trying to do is simulate an urch drew?" early dawn.

The artificial light, usually from fluo-rescent bulbs, is UV filtered to protect peo-ple's eyes and skin from light-related dam-

#### WHY DOES LIGHT HELP WITH SAD?

While there is no definitive under-standing of what causes SAD, Rohan said there is consensus about what triggers the symptoms: a change in photoperiod,

the symptoms: a change in photoperiod, which is the number of daylight hours. Photoperiod, she added, is believed to have more of an influence on mood and behavior changes than weather-related variables such as temperature, cloud cover, precipitation and the brightness of the available light during the day. This change in photoperiod is thought to affect the circadian clocks of people

with SAD, leaving them out of sync with the light-dark cycle. Light therapy deliv-ered first thing in the morning is believed to "jump-start those circadian rhythms back into the normal phase like they would be in the summertime when the individ-

be in the summertime when the individ-ual with seasonal affective disorder is typ-ically feeling at their best," Rohan said. "There is a special class of cells in the retina that detect the brightness of envi-ronmental light," said Paul Desan, director of the Winter Depression Research Clinic at the Yale School of Medicine. "And those cells are connected directly to the hypo-thalamus and other parts of the brain that affect the body's clock."

Though experts may not know exactly why SAD lamps are effective, "there is very solid research that exposure to bright light first thing in the morning is a very powerful treatment for the majority of people with seasonal affective disorder," Desan said.

said. A 2005 meta-analysis published in the American Journal of Psychiatry found that bright light therapy signifi-cantly reduced the severity of depres-sion symptoms among people with SAD and nonseasonal depression, compa-rable to the effects found in many anti-depressant pharmacotherapy trials

depressant pharmacotherapy trials. And if used properly and with guidance from a clinician, research has shown that the devices can help people with other mental health conditions, such as prenatal depression and bipolar depression.

"It's a very, very valuable addition to our therapeutic arsenal," said Rosen-thal, a clinical professor of psychiatry at Georgetown University School of Medi-

## Experts say there is a simple and effective treatment for seasonal affective disorder: light therapy, delivered via specially designed

## HOW DO I KNOW IF I SHOULD

GET A SAD LAMP? Light boxes can help people with the "winter blues" as well as those diagnosed with SAD. But regardless of how severe vour seasonal depression is, experts rec-

your seasonal depression is, experts rec-ommend talking to a clinician before starting light therapy. "There's no one size fits all" when it comes to light therapy treatment, Rohan said. "How many minutes today, what said. "How many minutes today, what time or times of day does this person need to use it to maximize benefit, min-imize side effects? It's abit of a trial-er-ror process even for those of us that know what we're doing. To try to do that on your own is, I think, a daunting task." Desan cautioned that unsupervised use of light therapy by people with com-plex mental health issues could worsen their condition

their condition.

'The point is that you really don't want to treat yourself for depression," he said.

#### WHAT SHOULD I LOOK FOR WHEN BUYING A SAD LAMP?

The FDA doesn't regulate light therapy devices, so picking a light box requires diligence.

"If someone with SAD goes online to buy a light box, the vast majority of stuff buy a new look, the vast majority of stun that they're going to find online is not appropriate, and a few of them are even unsafe," Desan said. Experts recommend looking for a box that emits light at 10,000 lux, the stan-

dard for effective treatment. Ideally, a SAD lamp should be fairly large, mea-suring about 12 by 14 inches, Sit said — "pretty much the size of a desktop mon-

Be wary of small light boxes boasting 10,000 lux, Desan said, as they may require you to position them very close to your face to get the intended effect. "The manufacturer should also tell you explicitly at what distance from the device it makes 10,000 lux because not all manu-facturers do that," he said. There are apps that you can download on your phone that measure lux, "so you can actually check and see how far away from your device you have to be to get 10,000 lux,"

he added. Prices for light boxes can range widely. Among the devices that Desan recommends, the least expensive is about \$100. You can find a quality device "that will last forever" for about \$300, he said.

### HOW DO I USE MY LAMP?

ould be used daily at the

same time to be effective. For those who suffer from seasonal depression, experts generally recommend sitting roughly a foot away from a light box for about 30 minutes shortly after waking up each morning. Make sure that the light is shining on

your face and your eyes are open — it's key that the light from the lamp reaches your eyes, so the retina cells can send the right signals - but do not stare directly

right signals — but do not stare directly into the light. Experts suggest using the time for other activities that are part of your morning routine, such as reading the paper or eating breakfast.

paper or eating breaktast. "We find a way to weave it into their daily system and by doing so, they can sort of improve their daily use and they're likely to get some good benefit from it," Sit said.

WHEN WILL I START FEELING THE EFFECTS? "To get a full effect of treatment, it may take two to four weeks," Desan said. may take two to four weeks, Desan said. "But usually people start getting an effect within days, which is much quicker than with a pharmacological antidepressant." He recommended that someone trying light therapy "do the treatment before a for the start of the star

a.m. for a solid month before you decide

a.m. for a solid month before you decide it doesn't work for you." Sit added that it is critical to stick to a light therapy regimen to maintain its positive effects. "If people skip treat-ment, they can quickly experience the symptoms coming back," she said.

### ARE THERE ANY SIDE EFFECTS?

ARC I HERK ANY SIDE EFFECTS? While light therapy is widely regarded as a safe treatment, "anything can be overdone," Rosenthal said. Too much exposure to the light may cause head-aches or eyestrain, he said. And some people have reported feeling overstim-ulated — "revverd un like you've bean ulated — "revved up like you've been drinking a little bit too much coffee." If you are experiencing such problems, "dial it back," Rosenthal said.

You can move the box slightly farther

away or try addy tine doo singhty tartine away or try addy the light intensity if your device comes with that option. Experts emphasized that the specif-ics of your treatment plan should be dis-cussed with a clinician, who can help ensure you're receiving the right dosage and not potentially harming your-self. People with retinal problems, for instance, should exercise caution, Rosen-thal said. "Absolutely consult your eye

Light therapy delivered first thing in the morning is believed to "jump-start those circadian rhythms back into the normal phase like they would be in the summertime when the individual with seasonal affective disorder is typically feeling at their best."