LOCATIONS Andover & Beverly Massachusetts

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Seasonal Affective Disorder

Overview

Seasonal Affective Disorder (SAD) is a type of depression that comes and goes with the seasons, typically starting in the late fall and early winter and going away during the spring and summer. Depressive episodes linked to the summer can occur, but are much less common than winter episodes of SAD.

Signs and Symptoms

Seasonal Affective Disorder (SAD) is not considered as a separate disorder. It is a type of depression displaying a recurring seasonal pattern. To be diagnosed with SAD, people must meet full criteria for major depression coinciding with specific seasons (appearing in the winter or summer months) for at least 2 years. Seasonal depressions must be much more frequent than any non-seasonal depressions.

Symptoms of Major Depression

- Feeling depressed most of the day, nearly every day
- Feeling hopeless or worthless
- Having low energy
- Losing interest in activities you once enjoyed
- Having problems with sleep
- Experiencing changes in your appetite or weight
- Feeling sluggish or agitated
- Having difficulty concentrating
- Having frequent thoughts of death or suicide.

Symptoms of the Winter Pattern of SAD include:

- Having low energy
- Hypersomnia
- Overeating
- Weight gain
- Craving for carbohydrates
- Social withdrawal (feel like "hibernating")

Symptoms of the less frequently occurring summer seasonal affective disorder include:

- Poor appetite with associated weight loss
- Insomnia
- Agitation
- Restlessness
- Anxiety
- Episodes of violent behavior

Risk Factors

Attributes that may increase your risk of SAD include:

- **Being female.** SAD is diagnosed four times more often in women than men.
- Living far from the equator. SAD is more frequent in people who live far north or south of the equator. For example, 1 percent of those who live in Florida and 9 percent of those who live in New England or Alaska suffer from SAD.
- **Family history.** People with a family history of other types of depression are more likely to develop SAD than people who do not have a family history of depression.
- **Having depression or bipolar disorder.** The symptoms of depression may worsen with the seasons if you have one of these conditions (but SAD is diagnosed only if seasonal depressions are the most common).
- Younger Age. Younger adults have a higher risk of SAD than older adults. SAD has been reported even in children and teens.

The causes of SAD are unknown, but research has found some biological clues:

- People with SAD may have trouble regulating one of the key neurotransmitters involved in mood, serotonin. One study found that people with SAD have 5 percent more serotonin transporter protein in winter months than summer months. Higher serotonin transporter protein leaves less serotonin available at the synapse because the function of the transporter is to recycle neurotransmitter back into the pre-synaptic neuron.
- **People with SAD may overproduce the hormone melatonin.** Darkness increases production of melatonin, which regulates sleep. As winter days become shorter, melatonin production increases, leaving people with SAD to feel sleepier and more lethargic, often with delayed circadian rhythms.
- **People with SAD also may produce less Vitamin D.** Vitamin D is believed to play a role in serotonin activity. Vitamin D insufficiency may be associated with clinically significant depression symptoms.

Treatments and Therapies

There are four major types of treatment for SAD:

- Medication
- Light therapy
- Psychotherapy
- Vitamin D

These may be used alone or in combination.

Medication

Selective Serotonin Reuptake Inhibitors (SSRIs) are used to treat SAD. The FDA has also approved the use of bupropion, another type of antidepressant, for treating SAD.

As with other medications, there are side effects to SSRIs. Talk to your doctor about the possible risks of using this medication for your condition. You may need to try several different antidepressant medications before finding the one that improves your symptoms without causing problematic side effects. For basic information about SSRIs and other mental health medications, visit NIMH's Medications webpage. Check the FDA's website for the latest information on warnings, patient medication guides, or newly approved medications.

Light Therapy

Light therapy has been a mainstay of treatment for SAD since the 1980s. The idea behind light therapy is to replace the diminished sunshine of the fall and winter months using daily exposure to bright, artificial light. Symptoms of SAD may be relieved by sitting in front of a light box first thing in the morning, on a daily basis from the early fall until spring. Most typically, light boxes filter out the ultraviolet rays and require 20-60 minutes of exposure to 10,000 lux of cool-white fluorescent light, an amount that is about 20 times greater than ordinary indoor lighting.

Psychotherapy

Cognitive behavioral therapy (CBT) is type of psychotherapy that is effective for SAD. Traditional cognitive behavioral therapy has been adapted for use with SAD (CBT-SAD). CBT-SAD relies on basic techniques of CBT such as identifying negative thoughts and replacing them with more positive thoughts along with a technique called behavioral activation. Behavioral activation seeks to help the person identify activities that are engaging and pleasurable, whether indoors or outdoors, to improve coping with winter.

Vitamin D

At present, vitamin D supplementation by itself is not regarded as an effective SAD treatment. The reason behind its use is that low blood levels of vitamin D were found in people with SAD. The low levels are usually due to insufficient dietary intake or insufficient exposure to sunshine. However, the evidence for its use has been mixed. While some studies suggest vitamin D supplementation may be as effective as light therapy, others found vitamin D had no effect.

Join a Study

Clinical trials are research studies that look at new ways to prevent, detect, or treat diseases and conditions, including seasonal affective disorder. During clinical trials, treatments might be new drugs or new combinations of drugs, new psychotherapies or devices, or new ways to use existing treatments. The goal of clinical trials is to determine if a new test or treatment works and is safe. Although individual participants may benefit from being part of a clinical trial, participants should be aware that the primary purpose of a clinical trial is to gain new scientific knowledge so that others may be better helped in the future.

Please Note: Decisions about whether to apply for a clinical trial and which ones are best suited for a given individual are best made in collaboration with your licensed health professional.

Clinical Trials at NIMH/NIH

Scientists at the NIMH campus conduct research on numerous areas of study, including cognition, genetics, epidemiology, and psychiatry. The studies take place at the NIH Clinical Center in Bethesda, Maryland and usually require regular visits. After an initial phone interview to see if any of the clinical trials recruiting subjects are a good match for you, you will come to an appointment at the clinic and meet with a clinician. Visit the NIMH Clinical Trials — Participants or Join a Study for more information.

How Do I Find a Clinical Trial Near Me?

To find a clinical trial near you, you can visit ClinicalTrials.gov. This is a searchable registry and results database of federally and privately supported clinical trials conducted in the United States and around the world. ClinicalTrials.gov gives you information about a trial's purpose, who may participate, locations, and contact information for more details. This information should be used in conjunction with advice from your health provider.

Learn More

Free Booklets and Brochures

You can download or order free copies of the following booklets and brochures in English or en Español:

- **Depression:** What You Need to Know: This booklet contains information on depression (depressive disorder or clinical depression), including signs and symptoms, treatment and support options, and a listing of additional resources.
- **Depression:** This brochure describes the two most common types of depression: major depression, and persistent depressive disorder. It lists symptoms, treatment options, and how the condition may look different in women, men, seniors, and children.
- **Depression and College Students:** This booklet describes what depression is, how it affects college students, and treatment options.
- **Teen Depression:** This flier for teens describes depression and how it differs from regular sadness. It also describes symptoms, causes, and treatments, with information on getting help and coping.

Federal Resources

- MedlinePlus offers information in English and en Español.
- Seasonal Affective Disorder Medline Plus: Medical Encyclopedia

Research and Statistics

- ClinicalTrials.gov: Seasonal Affective Disorder
- **Journal Articles:** References and abstracts from MEDLINE/PubMed (National Library of Medicine).
- Statistics: Major Depression Among Adults: This webpage provides information on the statistics currently available on the prevalence and treatment of depression among adults in the U.S.

- Statistics: Major Depression with Severe Impairment Among Adults: This webpage provides information on the statistics currently available on the prevalence and treatment of severe depression among adults in the U.S.
- Statistics: Major Depression with Severe Impairment Among Adolescents: This webpage provides information on the statistics currently available on the prevalence and treatment of severe depression among adolescents in the U.S.

Multimedia

 Twitter Chat on Seasonal Affective Disorder with NIMH expert Dr. Matthew Rudorfer – November 13, 2014

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