

No evidence of seasonal differences in depressive symptoms

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A large-scale survey of U.S. adults provides no evidence that levels of depressive symptoms vary from season to season, according to new research published in *Clinical Psychological Science*, a journal of the Association for Psychological Science. The findings are inconsistent with the notion of seasonal depression as a commonly occurring disorder.

"In conversations with colleagues, the belief in the association of seasonal changes with [depression](#) is more-or-less taken as a given and the same belief is widespread in our culture," says Steven LoBello, a

professor of psychology at Auburn University at Montgomery and senior author on the new study. "We analyzed the data from many angles and found that the prevalence of depression is very stable across different latitudes, seasons of the year, and sunlight exposures."

Based on emerging research investigating [seasonal affective disorder](#) (SAD), a "seasonal pattern" modifier for depression diagnoses was officially added to the Diagnostic and Statistical Manual of Mental Disorders (DSM) in 1987. To receive a diagnosis of depression with [seasonal variation](#), patients must meet the diagnostic criteria for [major depression](#) and also experience recurring depressive episodes that coincide with specific seasons - in most cases, patients report an increase of symptoms in the fall and winter and a decrease in symptoms in spring and summer.

But more recent studies have challenged the validity of earlier SAD research, including the fact that SAD is typically identified by asking patients to recall past depressive episodes over the course of the previous year or more. Furthermore, the criteria used to identify SAD do not align with the established criteria for major depression.

LoBello and lead study author Megan Traffanstedt decided to investigate whether they could find evidence for seasonal variation in depressive symptoms using data from a large-scale survey of U.S. adults.

In collaboration with Sheila Mehta, also of Auburn University at Montgomery, the researchers examined data collected in 2006 as part of the Behavioral Risk Factor Surveillance System (BRFSS), a phone-based health survey conducted annually.

The researchers examined data from a total of 34,294 participants ranging in age from 18 to 99. Depressive symptoms were measured using the PHQ-8, which asked participants how many days in the

previous two weeks they had experienced given symptoms of depression. The PHQ-8 has been validated in previous research as a reliable measure of depression in line with DSM diagnostic criteria.

Using geographic location for each participant, the researchers also obtained season-related measures including the actual day of the year, the latitude, and the amount of sunlight exposure.

The results showed no evidence that symptoms of depression were associated with any of the season-related measures. That is, people who responded to the survey in the winter months, or at times of lower sunlight exposure, did not have noticeably higher levels of [depressive symptoms](#) than those who responded to the survey at other times.

And the researchers did not find any evidence for seasonal differences in symptoms when they specifically looked at the subsample of 1,754 participants who scored within the range for [clinical depression](#).

"The findings cast doubt on major depression with seasonal variation as a legitimate psychiatric disorder," the researchers conclude.

Depression is by definition an episodic disorder and people may well experience [depressive episodes](#) in the fall and winter months. But, the researchers argue, "being depressed during winter is not evidence that one is depressed because of winter."

LoBello and colleagues note that conditions with so-called "low base rates" are difficult to detect in large-scale studies. As such, it's possible that major depression with seasonal variation does exist but only for a very small proportion of the population.

Taken together, the findings suggest that [seasonal depression](#) is not the prevalent disorder that it's commonly thought to be:

"Mental health professionals who treat people with depression should be concerned about their own and their patients' accurate conceptions about the possible causes of depression," LoBello says. "Pursuit of treatments based on false causes is unlikely to lead to rapid and durable recoveries."

More information: *Clinical Psychological Science*,
cpx.sagepub.com/content/early/.../02615615867.abstract

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