

Sleep and mood in bipolar disorder

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Credit: Cardiff University

Sleep loss can trigger relapse, particularly in the form of mania, in people with a diagnosis of bipolar disorder, finds a study by Cardiff University.

The new research, led by Cardiff University PhD student Katie Lewis, from the National Centre for Mental Health (NCMH), suggests that one in four individuals with [bipolar disorder](#) may be at risk of an episode of high [mood](#) following sleep loss.

Understanding what factors influence the relationship between sleep and mood episodes could help predict which individuals are most likely to relapse following periods of sleep deprivation, for example, because of long-haul travel or shift work. It could also inform self-management techniques such as e-monitoring.

This is the largest study to date reporting on the prevalence of sleep loss as a trigger in individuals with bipolar disorder and the first study to examine sleep loss as a trigger of both manic and depressive episodes in a large sample of individuals with bipolar disorder.

The large sample size made it possible for the team to examine whether bipolar subtype (type 1 or type 2), as well as gender, could affect people's vulnerability to sleep loss. Type 1 and type 2

bipolar subtypes can both represent serious [mental health](#) conditions, however the main difference between type 1 and type 2 bipolar disorder is that people with type 1 tend to have more severe episodes of high mood, possibly requiring hospitalisation.

Katie Lewis from Cardiff University, who led the research, explained: "We found that 20% of people with bipolar disorder reported that sleep loss had triggered episodes of high mood, whereas 12% reported that sleep loss had triggered episodes of low mood.

"A tendency for sleep loss to trigger episodes of high mood was more likely among women and people with type 1 bipolar disorder..."

In the study, Katie and her colleagues interviewed 3,140 individuals, drawn as a sample from the Bipolar Disorder Research Network. People were recruited from across the UK, through NHS community mental health teams and patient support organisations such as Bipolar UK.

It is unclear why some individuals become depressed following [sleep deprivation](#) and others become manic. It is possible that other triggers associated with relapse in bipolar disorder, such as stressful or exciting life events, medication use or interpersonal conflict, may coincide with the sleep loss that people experience.

Katie concluded: "Future research could potentially look at the role genes play in determining which people are particularly vulnerable to [sleep loss](#) triggering episodes of illness."

The study 'Sleep loss as a trigger of mood episodes in bipolar disorder: individual differences based on diagnostic subtype and gender' is published in the *British Journal of Psychiatry*.

The team at the National Centre for Mental Health are currently taking this work further by directly measuring sleep using activity monitors, and are

keen to hear from anyone with bipolar disorder who would like to help with the research. For more information, see www.ncmh.info/sleep-bipolar-disorder/

More information: Katie Swaden Lewis et al. Sleep loss as a trigger of mood episodes in bipolar disorder: individual differences based on diagnostic subtype and gender, *The British Journal of Psychiatry* (2017). DOI: [10.1192/bjp.bp.117.202259](https://doi.org/10.1192/bjp.bp.117.202259)

Provided by Cardiff University

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