

WELLNESS TEAM CULTURE

Evidence-based wellness, leadership, and team dynamics

RESEARCH BRIEF · THE EVIDENCE, PLAINLY

Your Brain Is Waiting for Light

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A small clock deep in your brain runs your whole day. It does not count hours. It reads light, bright light in the morning and darkness at night, and most of us are feeding it the wrong signal at both ends.

WHAT WAS ACTUALLY STUDIED

01 de Zeeuw et al. (2025), Journal of Psychiatric Research

TIER 2

A controlled study with twenty healthy young adults who spent five mornings, eight to noon, in either a dim room (55 lux) or a bright one (800 lux), measuring cortisol, sleep, and mood.

02 Burns et al. (2023), Nature Mental Health

TIER 1

A study of 86,772 adults who wore wrist light sensors for a week, linking real-world daytime and night-time light exposure to the odds of major psychiatric conditions.

WHAT THEY FOUND

Berlin researchers had healthy adults spend five mornings in either a dim room or a bright one (de Zeeuw). After the dim mornings, cortisol drifted later into the evening, deep sleep slipped later, total sleep fell by about twenty-five minutes, and people rated themselves sadder. A few dim mornings nudged healthy physiology toward the shape of a depressed one.

~25 min

less total sleep after just five dim mornings, alongside later-shifted cortisol and lower mood in healthy adults (de Zeeuw).

At population scale the same signal shows up. In 86,772 adults wearing light sensors, more daytime light tracked with lower odds of major depression, while more night-time light tracked with higher odds of depression and several other conditions (Burns).

WHERE THE EVIDENCE STANDS

A small controlled study and a very large real-world one, pointing the same way.

The Berlin study is small but controlled: change the morning light, watch cortisol, sleep, and mood move within days. The Biobank study is the opposite shape: tens of thousands of people, measured in real life, showing the same direction at scale. Bright days and dark nights line up with better outcomes. Dim days and bright nights line up with worse ones.

Neither alone would be enough. A twenty-person study is suggestive, and a correlation across 86,772 people cannot isolate cause. Together, a controlled mechanism plus a large real-world association, they make a sturdier case than either on its own.

WHAT THIS DOES NOT PROVE

The de Zeeuw study is small, about ten people per group, and short, so treat the exact numbers as a signal, not a settled dose. The Burns study is large but observational, which shows association, not proof that night light alone causes any one condition. Light is one input among many.

None of this is a treatment claim or a substitute for care. If low mood or sleep trouble is persistent, that is a reason to talk to a clinician. This is education, not medical advice.

WHAT IT MEANS FOR YOU

Two cheap levers sit at the ends of your day. Get real light into your eyes early, ideally outdoors. Let the dark return at night by dimming screens and overhead lights after sunset. You are not just chasing better sleep. You are giving the clock the day-night contrast it uses to run cortisol, mood, and rest on schedule.

GO TO THE SOURCE

TIER 2 de Zeeuw, J., et al. (2025). Journal of Psychiatric Research. pubmed.ncbi.nlm.nih.gov/41240877

TIER 1 Burns, A. C., et al. (2023). Nature Mental Health. nature.com/articles/s44220-023-00135-8

Tier 1 means peer-reviewed primary research or meta-analysis, the strongest evidence. Tier 2 means an expert framework or smaller study that traces to peer-reviewed work. We grade every source so you can see the weight behind each claim.

Pegasus Realm publishes Wellness Team Culture and the practice resources behind it.

Education, not medical advice.

