



THE PREVELITY LIBRARY

VOL. 08 · STRESS

Stress, Recovery & the Long Game.

Stress isn't the enemy — unrecovered stress is. What chronic stress does to the body, the tools that work in minutes and over years, and when it's time to get help.

FREE PREVIEW EDITION

WRITTEN BY

Patrick Mullen, MD · Founding
Physician

PRE-VELITY

INNOVATIVE PREVENTION, PERSONALIZED FOR LONGEVITY.

FOREWORD

The people who handle the most stress often notice it least.

Founders, executives, physicians, parents holding a family together — many of the people I care for are extraordinarily good at carrying pressure. That skill has a cost they rarely see on a lab report until it's large.

Stress itself isn't the problem. Short bursts of challenge make us sharper and stronger; that's how training works. The problem is stress without recovery — pressure that never switches off, sleep that never quite restores, a nervous system that stays on alert for years. That chronic load shows up in blood pressure, blood sugar, sleep, weight, relationships, and judgment.

This guide explains what chronic stress does, how to read the signals, the tools that help in minutes and over years, and — just as important — when stress has become something that deserves professional care.

WHAT THIS IS — AND ISN'T

Education, not mental health treatment.

This guide isn't a substitute for care from a physician, therapist, or psychiatrist. If you're struggling, please reach out to one.

IF YOU'RE IN CRISIS

Help is available now.

If you're having thoughts of harming yourself or feel unable to cope, call or text **988** (the Suicide & Crisis Lifeline in the U.S.) or go to the nearest emergency department. If you're outside the U.S., contact your local emergency number. PreVelity is a preventive practice and is not a crisis or mental health service.

DR. PATRICK MULLEN, MD
FOUNDING PHYSICIAN · PREVELITY

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SECTION 01

01.

What Stress Does.

The stress response is brilliant engineering for short emergencies.
It was never designed to run all day, every day, for years.

INSIDE THIS SECTION

Helpful vs. chronic stress · The body's stress systems · What chronic load costs · Loneliness

TWO KINDS OF STRESS

A sprint is healthy. A sprint that never ends isn't.

When you face a challenge, two systems activate. The sympathetic nervous system releases adrenaline — heart rate and blood pressure rise, attention sharpens. The hormonal stress axis releases cortisol, mobilizing energy. When the challenge passes, the body is designed to switch off and recover.

Chronic stress is what happens when that switch-off rarely comes: cortisol and sympathetic tone stay elevated, recovery is incomplete, and the wear accumulates. Researchers call this cumulative cost **allostatic load** — the price the body pays for adapting to pressure that never lets up.

FIGURE 01 · WHAT CHRONIC LOAD COSTS

STRESS SHOWS UP FAR FROM WHERE IT STARTS.

HEART**Pressure and rhythm**

Chronic stress raises blood pressure and is linked to heart attacks; in large international studies, psychosocial stress was a meaningful risk factor alongside the classic ones.

METABOLISM**Glucose and belly fat**

Cortisol raises blood sugar, drives appetite for high-calorie food, and favors visceral fat (Vol. 03).

SLEEP**The first casualty**

A mind that won't switch off at night — and poor sleep that makes the next day's stress worse (Vol. 07).

HORMONES**Suppressed signals**

Chronic stress dampens thyroid, testosterone, and reproductive hormones (Vol. 04).

IMMUNITY**Inflammation**

Persistent low-grade inflammation and weaker defenses against infection.

BRAIN**Focus and mood**

Worse memory, narrower thinking, irritability, and higher risk of anxiety and depression.

Stress also works indirectly: it's behind a lot of late-night eating, extra drinks, skipped workouts, and short nights.

CONNECTION

Loneliness is a health risk, not just a feeling.

In 2023, the U.S. Surgeon General issued an advisory on loneliness and isolation, linking them to higher risk of heart disease, stroke, dementia, depression, and premature death. Strong relationships are one of the most powerful buffers against stress — and one of the first things busy, pressured people let slip.

Stress isn't the enemy. Stress without recovery is.

THE LONG GAME

SECTION 02

02.

Reading the Signals.

There's no single blood test for stress. But your body leaves plenty of clues — if you know where to look.

INSIDE THIS SECTION

No single test · What's worth tracking · Cortisol panels and 'adrenal fatigue' · Burnout

NO SINGLE TEST

Stress shows up as a pattern.

Cortisol rises and falls throughout the day and responds to almost everything — waking, eating, exercise, a tense email. A single measurement says little about chronic stress. What's more informative is a pattern across your body, your behavior, and your mood.

SIGNAL	WHAT TO NOTICE	HOW TO TRACK IT
Sleep	Trouble falling asleep with a racing mind; waking at 3 a.m. thinking about work.	A sleep diary or wearable (Vol. 07).
Resting heart rate & HRV	Resting heart rate creeping up and heart-rate variability trending down over weeks.	A wearable — trends, not single days.
Blood pressure	Readings rising, especially at home.	A validated home cuff, a week at a time.
Body	Tension headaches, jaw clenching, stomach upset, frequent colds.	Notice and note them.
Behavior	More drinks, more snacking, less exercise, more screen time, less time with people.	Honest self-review, or ask someone close to you.
Mood	Irritability, dread on Sunday nights, losing interest in things you enjoy.	Brief questionnaires your physician can use.

ABOUT CORTISOL PANELS

"Adrenal fatigue" isn't a recognized diagnosis.

Some companies sell saliva or urine cortisol panels and diagnose "adrenal fatigue," then sell supplements to treat it. The Endocrine Society and major medical organizations don't recognize adrenal fatigue as a medical condition. Real adrenal disorders exist and are diagnosed with specific testing by a physician. If you feel exhausted and stressed, the cause is far more likely to be sleep, mood, workload, or another medical condition — all worth evaluating properly.

BURNOUT

Exhaustion, distance, and doubt.

Burnout — described by the World Health Organization as an occupational phenomenon — has three features: exhaustion, growing cynicism or detachment from work, and a sense of reduced effectiveness. It's not a personal weakness; it's what happens when demands outpace recovery and control for too long. Burnout and depression overlap, so persistent symptoms deserve an evaluation, not just a vacation.

END OF THE FREE PREVIEW

The rest of this guide.

You know what stress does and how to read it. The complete edition covers what to do: tools that work in minutes and over years, an evidence-graded guide to sauna, cold plunges, red light, biofeedback, and supplements — with protocols and safety — how to track HRV and recovery without letting it run your life, when stress has become something more, and a daily-to-quarterly plan.

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Slow breathing · movement · daylight and nature · the reset between meetings

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