HIGHER HEIGHTS FITNESS
BRECKSVILLE, OHIO

The Recovery Blueprint: Why Sleep Decides Your Results

The workout is the stimulus, not the result — sleep is where the actual adaptation happens.

01 WHAT'S HAPPENING WHILE YOU SLEEP

During deep, slow-wave sleep your body releases most of its daily growth hormone and shifts into active muscle repair — rebuilding the tissue your training broke down hours earlier. Glycogen also replenishes largely overnight. Cut that window short and you recover slower from every session that week.

02 THE PERFORMANCE COST OF SLEEP DEBT

A Stanford study on collegiate athletes found extending sleep to 10 hours improved sprint times, reaction speed, and mood — sleep alone, no training change. The reverse holds too: restricted sleep measurably reduces strength output and training motivation, often before someone consciously feels tired.

03 A PRACTICAL SLEEP PROTOCOL

Protect 7-9 hours — treat it as non-negotiable as the workout itself.

Same bed/wake time, every day — even weekends. Consistency regulates the hormonal rhythm behind deep sleep.

Cut caffeine by early afternoon — its half-life is roughly 5-6 hours.

Dim screens 30-60 min before bed — blue light suppresses melatonin release.

Keep the room cool — around 65-68°F; core temperature needs to drop to initiate deep sleep.

WHY THIS MATTERS FOR THE NERVOUS SYSTEM & GUT

Deep sleep is when your nervous system shifts most fully into parasympathetic dominance. Cut it short and cortisol stays elevated, stacking stress on stress. Sleep loss is also linked to reduced gut microbiome diversity and disrupted appetite hormones (ghrelin/leptin) — part of why under-slept weeks bring worse food choices and more cravings.

04 QUICK TAKEAWAYS

- ✓ **Sleep is where adaptation happens** Growth hormone release and muscle repair happen mostly during deep sleep.
- ✓ **7-9 hours isn't a luxury** Sleep debt reduces strength, reaction time, and training motivation.
- ✓ **Consistency matters as much as total hours** Same bed/wake time regulates the hormonal rhythm behind deep sleep.

Sources: Mah et al., Sleep (2011) · Dattilo et al., Medical Hypotheses (2011) · Spiegel, Tasali, Penev & Van Cauter, Annals of Internal Medicine (2004) · Sleep Foundation — Caffeine and Sleep.

hhfonlinecoaching.com · Questions? hhfonlinecoaching@gmail.com · (330) 552-8349