



# Research Summary: Health Longevity #1

As featured in Dr. Kenny Mittelstadt's video:  
"Health Longevity Basics | Be Healthier Than MOST People."  
Date of Publication: 03/21/2026

## Research Context:

This topic explores why longevity is not just about doing more, but about how your body responds to what you're already doing. Many people feel stuck despite "doing everything right," and the missing piece often comes down to how stress, sleep, and daily inputs shape your internal environment. In functional medicine, this is less about isolated habits and more about patterns, specifically how your nervous system, metabolism, and recovery systems communicate.

The research below helps connect how foundational inputs like sleep, muscle, and social connection influence these communication networks. When these systems are supported, the body can shift toward repair and long-term resilience. When they're not, even well-intentioned habits may not translate into meaningful results.

## Key Findings from the Research:

### Study 1 (PMID 33054337):

Researchers reviewing multiple large datasets found that consistently getting around 7-8 hours of sleep is linked to better metabolic health, stronger immune function, and lower risk of chronic disease. Both too little and too much sleep were associated with worse outcomes, suggesting that balance and quality matter. What this means: Sleep is when your body recalibrates key systems. Cortisol (your stress hormone) follows a daily rhythm that resets during sleep. Insulin sensitivity improves, meaning your body can handle blood sugar more effectively. Your brain also clears out waste through processes like glymphatic flow. If sleep is fragmented or shallow, those systems stay partially "on edge," which can show up as fatigue, cravings, brain fog, or slower recovery.

### Study 2 (PMID 35599175):

This large meta-analysis found that people who regularly engaged in resistance training had a significantly lower risk of death from all causes, including cardiovascular disease and cancer. Even modest amounts of strength training per week were associated with meaningful benefits. What this means: Muscle is not just for strength or appearance. It plays a central role in how your body manages energy. Muscle tissue helps absorb glucose (blood sugar) after meals, reducing spikes and lowering the demand on insulin. When muscle mass is low, your body has fewer places to "store" energy efficiently, which can lead to unstable blood sugar, energy dips, and increased metabolic stress over time.

### Study 3 (PMID 29253477):

This meta-analysis showed that people with stronger social relationships had about a 50% higher likelihood of survival compared to those with weaker or more isolated connections. The effect size was similar to major lifestyle risk factors. What this means: Your body interprets social connection as a form of safety. Supportive relationships can lower chronic stress signaling and improve regulation across multiple systems, including immune and cardiovascular function. On the other hand, isolation or unstable relationships can increase stress chemistry, even if you're not consciously aware of it, creating a background load that affects long-term health.



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## Functional Medicine Connections:

Here's how these pieces connect from a systems perspective:

Your body is constantly deciding how to allocate energy. Toward repair, recovery, and long-term maintenance... or toward short-term output and adaptation.

Sleep influences this by resetting your nervous system and hormonal rhythms. If sleep is off, your body carries more stress into the next day, making everything from blood sugar control to emotional regulation less stable.

Muscle acts as a metabolic buffer. It gives your body flexibility in how it uses fuel. Without that buffer, your system becomes more dependent on frequent input and less able to maintain steady energy.

Social connection feeds directly into your nervous system. Stable, supportive relationships reduce stress signaling, while isolation or conflict can increase it. Over time, this shapes inflammation, hormone balance, and even how resilient your system feels.

## Practical Reflections & Takeaways:

Think about your own patterns.

When your sleep is off, do you notice changes in your energy, cravings, or stress tolerance the next day? Do your energy dips or plateaus tend to line up with periods of higher stress, less movement, or fewer meaningful connections? These aren't isolated issues. They're signals. Your body is constantly adapting to the conditions it's placed in, and those patterns often show up long before anything appears on a lab test.

It can be helpful to step back and look at your day as a whole rather than focusing on one habit at a time. Where does your day feel rushed, overstimulating, or inconsistent? Where does it feel steady, predictable, or supportive?

Those differences matter. They shape how your system allocates energy, how well you recover, and how stable things feel from the inside.

## Want Dr. Kenny's Eyes on Your Case?

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