# What Are Peptides And How Can They Reverse Aging? Transcript

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## Introduction to Blood Sugar and Longevity

Hello and welcome. My name is Doctor Rudy Mueller, and today I want to share with you how important blood sugar balance is to longevity and how glucose and insulin impact aging.

So blood sugar and insulin are more than just numbers on a lab report. They're core indicators of our metabolic health and even our longevity. Every time we eat, our blood sugar rises and our bodies release insulin to bring that sugar into our cells for energy.

## Why Stable Blood Sugar Matters

It's a natural process that keeps us fueled like a high performance vehicle needs a smooth supply of fuel. But when blood sugar levels spike too high too often or stay elevated, it's like pumping the wrong kind of fuel into the engine over time, the system wears down, leading to health issues that impact how we age and how long we stay healthy.

The good news is small, consistent changes in how we manage blood sugar can lead to big, long term benefits. You know, in the research, it shows that people who keep their blood sugar stable experience lower inflammation, healthier cells, and a reduced risk of chronic diseases like diabetes, heart disease and Alzheimer's.

## Client Success Story: Christine's Progress

Take Christine, one of my clients. She came to me exhausted and struggling with frequent sugar cravings. Her blood test showed elevated glucose and early signs of insulin resistance.

We made simple changes reducing processed carbs, focusing on whole fiber rich foods, intermittent fasting, and adding short walks after meals. Within weeks, these simple changes her energy improved.

Her blood sugar levels started to stabilize over time. She not only felt better, but saw significant improvements in her labs, reducing her risk of future health complications.

To really understand how blood sugar impacts our health. Let's look at two key players glucose and insulin.

## Glucose, Insulin, and Metabolic Health

So glucose is one of our body's main energy sources. Insulin acts like a key unlocking the cell and allowing it to absorb glucose for energy. When this system works well, it keeps blood sugar steady and supports healthy metabolism.

But when blood sugar stays high or insulin resistance develops, it disrupts these processes and accelerates aging. High blood sugar generates free radicals, unstable molecules that damage cells and DNA, leading to oxidative stress, a major contributor to aging and chronic disease.

## How High Blood Sugar Accelerates Aging

It also causes glycation, where sugar molecules bind to proteins, creating these things called advanced glycation end products, or ages, which damage tissue and accelerate the aging process.

Insulin resistance adds to this by impairing the mitochondria, our cells, energy producers, and shortens telomeres, the protective caps on our DNA linked to longevity.

So balancing blood sugar isn't just about avoiding disease. It's about protecting our cells and reducing inflammation to support a healthier, longer life.

Simple strategies like eating low glycemic foods, incorporating exercise, implementing intermittent fasting can make a huge difference. For example, fasting allows insulin levels to drop, activating autophagy, which is a process where cells clean out damaged components and regenerate, supporting cellular health and longevity.

## Practical Steps for Better Blood Sugar Balance

So start small. Replace sugary snacks with nuts or veggies. Take a ten minute walk after meals to help process that glucose. These simple steps help stabilize blood sugar, improve energy, and support long term health.

And if Christine's transfer really taught me anything, it's that even these small changes can lead to big results. Balancing blood sugar isn't just about managing energy, it's about investing in a vibrant, healthy future.

So thank you for joining to me. Joining me today, and I encourage you to take the next step toward better health. So let's build a healthier, more resilient future together.

This is Doctor Ruby Mueller saying thank you.