

Prevent and Heal the Damage of Cardiovascular Disease

CARDIOVASCULAR DISEASES DEADLY AND COMMON

CARDIOVASCULAR DISEASES CLAIM A LIFE EVERY **40 SECONDS**.

HEART DISEASE

STRIKES SOMEONE EVERY **42 SECONDS**, AND IS THE LEADING CAUSE OF DEATH WORLDWIDE.



STROKE IS THE LEADING **PREVENTABLE** CAUSE OF DISABILITY, AND CAUSES 1 OUT OF EVERY 20 DEATHS.

ABOUT **80 MILLION** ADULTS HAVE **HIGH BLOOD PRESSURE**.

ABOUT **550,000** PEOPLE IN THE U.S. HAVE A **HEART ATTACK FOR THE FIRST TIME** EACH YEAR.

ABOUT **200,000** HAVE **RECURRENT HEART ATTACKS**.

American Heart Association. "Heart Disease, Stroke and Research Statistics At-a-Glance." Available at: https://www.heart.org/idc/groups/ahamah-public/@wcm/@sop/@smd/documents/downloadable/ucm_480086.pdf. Accessed; 8-2-16.

Step one in your heart health plan should be eliminating refined sugar and carbohydrates from your diet. For more on this, please read my diet and exercise plan (available on my website). But, there are also some very important nutrients I consider to be "must-haves" for your heart and I will discuss them in this *Terry Talks Nutrition*®.

Magnesium

Magnesium is an energy mineral, and is critical to the functioning of the mitochondria, the cells' engine. Consider that the heart doesn't take any breaks, and you quickly understand the necessity of having energy-related nutrients on board.

In fact, magnesium—or the lack of it—can be considered a deciding factor for many heart conditions. Magnesium works with calcium to keep your heart beating in a regular rhythm, and is also important in keeping blood pressure from getting too high.

A Finnish study found that because of magnesium's essential relationship to cellular

energy and heart rhythms, low levels are a risk for heart failure in men—even after accounting for other lifestyle factors, blood pressure, and weight. There's no way around it: if you want a healthy heart and cardiovascular system, you must have magnesium.

There are a lot of forms of supplemental magnesium out there, but I prefer one that is chelated to the amino acid glycine. It absorbs more efficiently in the intestinal tract, and can work more effectively in the body.

Vitamin B1/Benfotiamine

Benfotiamine is a fat-soluble form of vitamin B1, also known as thiamine. Deficiencies of thiamine are common in people with heart failure. Benfotiamine helps repair the cells inside your blood vessels and arteries, especially after damage caused by high blood sugar. And that ability to repair blood vessels isn't limited to diabetes-related injury. Scientific research shows that benfotiamine also protects the brain and assists in recovery after a heart attack.

Terry Talks



Nutrition

Terry's Bottom Line

Conventional advice on preventing heart disease often falls far short of actually helping. That's because too many "experts" tell you to avoid the very foods that will stop inflammation, keep your blood sugar low, and your weight in check. Additionally, too often our diets are light in the nutrients the heart and cardiovascular system need. No wonder heart disease is still the number one killer of men and women in America.

That's why I recommend a specific combination of nutrients for anyone who is concerned about the strength of their heart, flexibility of their arteries, or their blood pressure numbers.

These nutrients can prevent or treat:

- High blood pressure
- Atrial fibrillation (irregular heartbeat)
- Atherosclerosis (hardening and narrowing of arteries)
- Coronary heart disease
- Cholesterol oxidation and plaque formation

If you are concerned about the strength of your heart, flexibility of your arteries, or your blood pressure numbers, I recommend taking a combination of vitamin B6 as P-5-P, magnesium, French grape seed extract, pomegranate fruit extract, and vitamin B1 as benfotiamine daily.

More...

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Thiamine is also required for the energy needs of the mitochondria—the “engine” of heart cells. It’s understandable that without the right levels of this important nutrient, your heart just won’t have the energy it needs to work properly.

I like the benfotiamine form of thiamine when addressing heart problems because it is more easily absorbed and remains active in the body much longer.

Vitamin B6/P-5-P

Vitamin B6—especially in the pyridoxal-5-phosphate (P-5-P) form that I recommend—has been shown to reduce homocysteine (an amino acid associated with increased risk of heart disease). It also works to prevent ischemic heart disease, the narrowing of the arteries that leads to less blood and oxygen reaching the heart and ultimately, the painful condition called angina pectoris.

Researchers have found that one of the ways P-5-P does this is by affecting the levels of calcium in the bloodstream—somewhat like a prescription calcium channel blocker would, but without the adverse effects. Treatment with P-5-P can prevent abnormal heart rhythms, so the heart is under less stress and works properly.

And because of its abilities to affect calcium in the bloodstream, it can prevent damage to the arteries following coronary artery bypass surgery, too.

Pomegranate Fruit Extract

Pomegranate has been shown to decrease LDL cholesterol aggregation (the clumping together of oxidized cholesterol in the arteries), lower blood pressure, and boost the activity of enzymes that protect LDL from oxidation. It has also been shown to raise levels of glutathione (the body’s own natural antioxidant) by 141% in patients with diabetes. But beyond that, pomegranate also helps keep arteries flexible and strong—a key factor for preventing high blood pressure and atherosclerosis.

Pomegranate is a great source of polyphenols and anthocyanins—natural compounds that

protect us from oxidative damage and stop cellular deterioration. They help the body recover from damage, and, according to one study, reduced episodes of stress-induced heart attack in patients with coronary heart disease.

Research published in the journal *Atherosclerosis* showed that the polyphenols in pomegranate inhibit angiotensin converting enzyme (ACE) activity by 36 percent—activity that would otherwise lead to high blood pressure. In other words, pomegranate works like a prescription ACE inhibitor but without side effects or complications.

I believe that concentrating pomegranate in the form of extracts can help target its benefits—and make it more convenient (no sugary juice) to consume and more easily combined with other nutrients.

Grape Seed Extract

Grape seed extract reduces high blood pressure, protects the blood vessel walls from free radical damage, and prevents the dangerous oxidation of LDL cholesterol—one of the first steps on the road to a heart attack or stroke.

In an Italian clinical study, individuals with slightly increased blood pressure levels were divided into three groups, two with grape seed extract, at lower or higher dosages, and one with a diet and exercise intervention only, serving as a control group. At the end of the four-month trial, both grape seed extract groups saw an improvement in blood pressure, although those at the higher dosage noticed more dramatic effects. In fact, blood pressure numbers normalized in 93 percent of those in the higher dosage group.

Other scientific studies have found that grape seed extract helps prevent blood clots from forming without thinning the blood, lowers blood pressure, and shields blood vessels and arteries from free radical damage.

The most beneficial compounds in grape seed extract are the oligomeric proanthocyanidins (OPCs), which is why I



think a tannin-free French grape seed extract with only low-molecular weight OPCs is the key to a grape seed extract that really works. If the OPCs are not standardized to a small size, they don’t absorb.

Heart Disease is Not Inevitable!

You may have a personal or a family history of heart disease or other cardiovascular issues. Or you may simply be concerned as you get older about the overall health of your heart and arteries. But you can change the odds so they are in your favor. The nutrients I’ve outlined here can go a long way to preventing heart disease or stopping it from recurring. No matter what your age or situation, you can make a positive start right now for a healthy future.

For more on heart health, read:

TTN092 – *Atherosclerosis, Aneurysms, or Deep Vein Thrombosis*

TTN097 – *French OPC Grape Seed for Diabetes, Heart, Cancer and More*

When in doubt, always consult your physician or healthcare practitioner. This article is intended to provide you with information to maintain your health.

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