

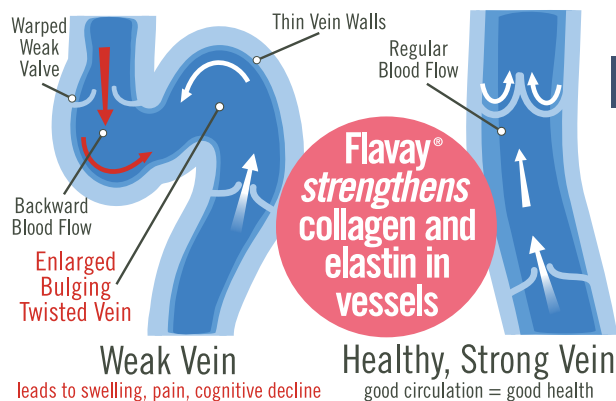
stronger, more flexible vessels

- ≈ veins ≈ arteries
- ≈ lymph vessels
- ≈ capillaries

Stronger, Flexible Vessels Keep Blood Flowing

When veins become weak, brittle and thin, gravity pulls blood backwards and causes veins to enlarge, bulge and twist. The backflow becomes acidic from accumulation of metabolic waste and causes an intense inflammatory reaction which results in varicose veins, pain, fatigue, itching, burning, swelling, cramping, restlessness and even more serious problems including chronic venous insufficiency (CVI).

Flavay® binds to collagen fibers and realigns them to a more youthful form



Flavay® reactivates collagen production and boosts vitamin C in synthesis of collagen and elastin in vascular walls. As a strong antioxidant, Flavay® protects collagen, elastin and hyaluronic acid from over-crosslinking and destructive inflammatory enzymes. (18,25,61,74,81)

Flavay® improves strength and tone of veins and arteries by strengthening the essential constituents in vascular walls (collagen and elastin). (47,48,82,205)

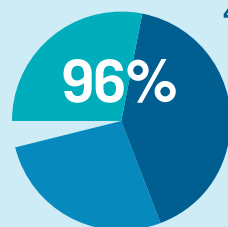


collagen polypeptides

Studies demonstrate Flavay® improves beneficial crosslinking between amino acids of fibers which give collagen its flexibility and strength and at the same time preventing undesirable over-crosslinking that weakens collagen. (18,19,23,60,266-268,279)

Research found Flavay® reduced damage to connective tissue in capillaries up to 70%. (18,19,23,60,266-268,279)

better circulation & blood flow



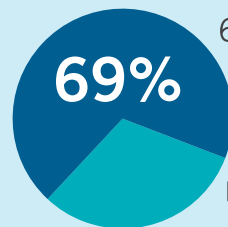
41% very good improvement
28% good improvement
27% improvement

96% experienced improvement in circulation

A study of persons with serious circulation problems found 96% experienced improvement taking Flavay®. (44)

Flavay® Improves Blood Flow in Clinical Trials

Licensed and sold for vascular (vessel) health in France for more than 70 years, Flavay® is clinically proven to improve circulation, lessen impaired venous backflow, seal leaky capillaries and prevent outflow of blood and liquid. (44-48,249,250)



69% of subjects reported 50% pain relief

50% reduction in clinical parameter scores for pain, paresthesia and inflammation in those taking Flavay®

A double-blind, placebo-controlled study of persons with chronic inflammation caused by chronic venous insufficiency (CVI) found improved venous function with 300mg Flavay® daily for 28 days. 69% of those taking Flavay® reported 50% reduction in clinical parameter scores for inflammation, paresthesia and pain. (48)

A review of 26 clinical studies concluded that in subjects with chronic venous insufficiency (CVI), Flavay® significantly improves venous function in swelling, pain, paresthesia (burning, numbness, tingling, prickling) and nocturnal leg cramps. (42,230)

Flavay® has been extensively tested in humans and patented for strengthening antioxidant defense systems, reducing inflammation and edema (swelling), and improving overall circulation and vascular health.



Your blood flows better and joints hurt less with Flavay®

210-481-0067
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cardio & vascular health

improve nitric oxide endothelial function



stronger, more flexible vessels



better circulation & blood flow



reduce swelling & inflammation



improve blood platelet reactivity



stronger, more flexible blood cells



anti-lipid oxidation

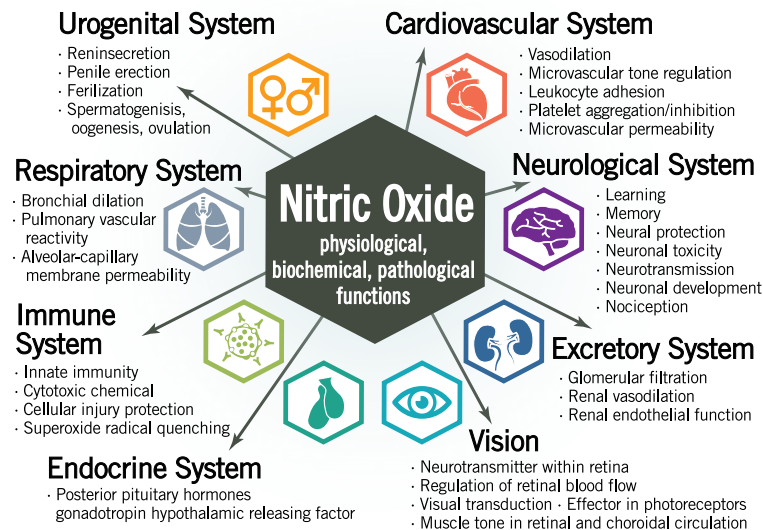


U.S. and International Patents · Clinically Proven Since 1947

improve endothelial function & healthy nitric oxide levels

Nitric Oxide is an Essential Signaling Molecule

Nitric oxide (NO) is a signaling molecule used by every tissue and organ of our body, from our muscles to our eyes to our brain to the disease-fighting cells of our immune system. A large and growing body of research reveals how important nitric oxide is to each of our body systems and loss of nitric oxide function is one of the earliest indicators of disease. (203,204,446,459)



Nitric oxide creates oxidation and too much nitric oxide can be deadly and actually contribute to heart disease and strokes, arthritis, asthma and Alzheimer's disease. (10,239,265,292,296)

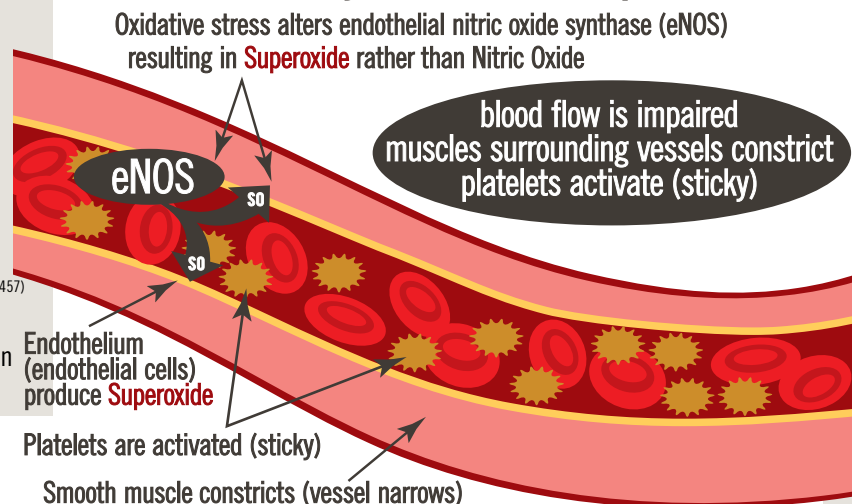
Endothelial Dysfunction in Vascular Diseases: Oxidative Stress

Oxidative stress alters endothelial function, damages nitric oxide synthesis (eNOS), and results in superoxide (and other reactive oxygen species) which further damages endothelial cells with more oxidant stressors and ultimately apoptosis (cell death). (439,457)

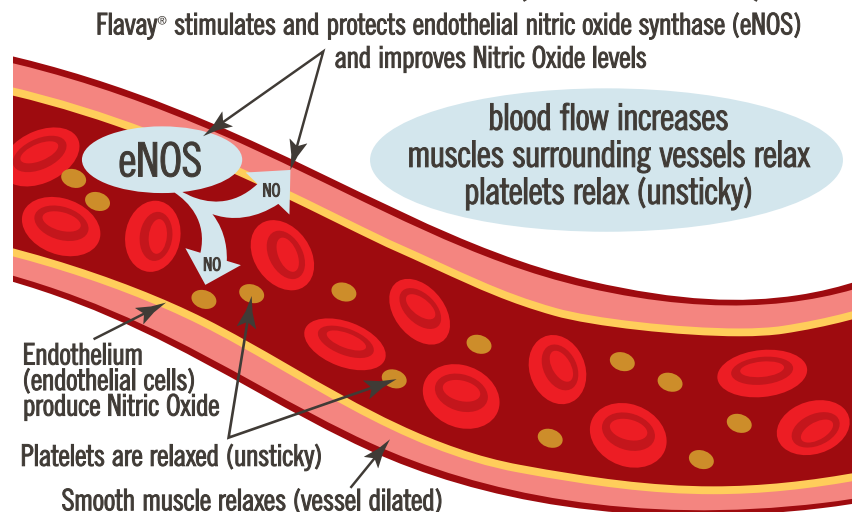
When in the presence of superoxide, nitric oxide initiates lipid peroxidation and oxidizes lipid antioxidants. (346)

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Endothelial Dysfunction (Superoxide)



Endothelial Function (Nitric Oxide)



Flavy® Improves Endothelial Dysfunction

Flavy® is shown to balance nitric oxide activity, both to stimulate normal synthesis of endothelial nitric oxide (eNOS) and to inhibit over-production of nitric oxide. Studies show Flavy® protects against toxic over-production of nitric oxide by blocking harmful nitric oxide synthases (NOSs). (10,53,261,265,302,306,315,372,414)

Flavy improves endothelial nitric oxide levels by improving endothelial function so blood flow increases, muscles surrounding vessels relax and platelets relax (unsticky)

How Flavy® Normalizes Reactivity ("Stickiness") of Blood

Flavy® aids production of endothelial nitric oxide which naturally reduces platelet aggregation ("sticky blood") causing blood platelets to relax, return to their normal smooth condition; also relaxing muscle surrounding blood vessels. (10,38-54,103,202,286,287)

A large and growing body of evidence shows that platelet activation ("sticky blood") is a central part of the inflammatory process. (399)

reduce inflammation & stronger antioxidant defenses

We now understand that cardiovascular disease is associated to an inflammatory process. Atherosclerosis is characterized by chronic low grade inflammation of arteries which results in an accumulation of lipids and macrophages/lymphocytes—a systemic inflammatory process. (391,438)

Flavy® Inhibits Inflammatory Enzymes

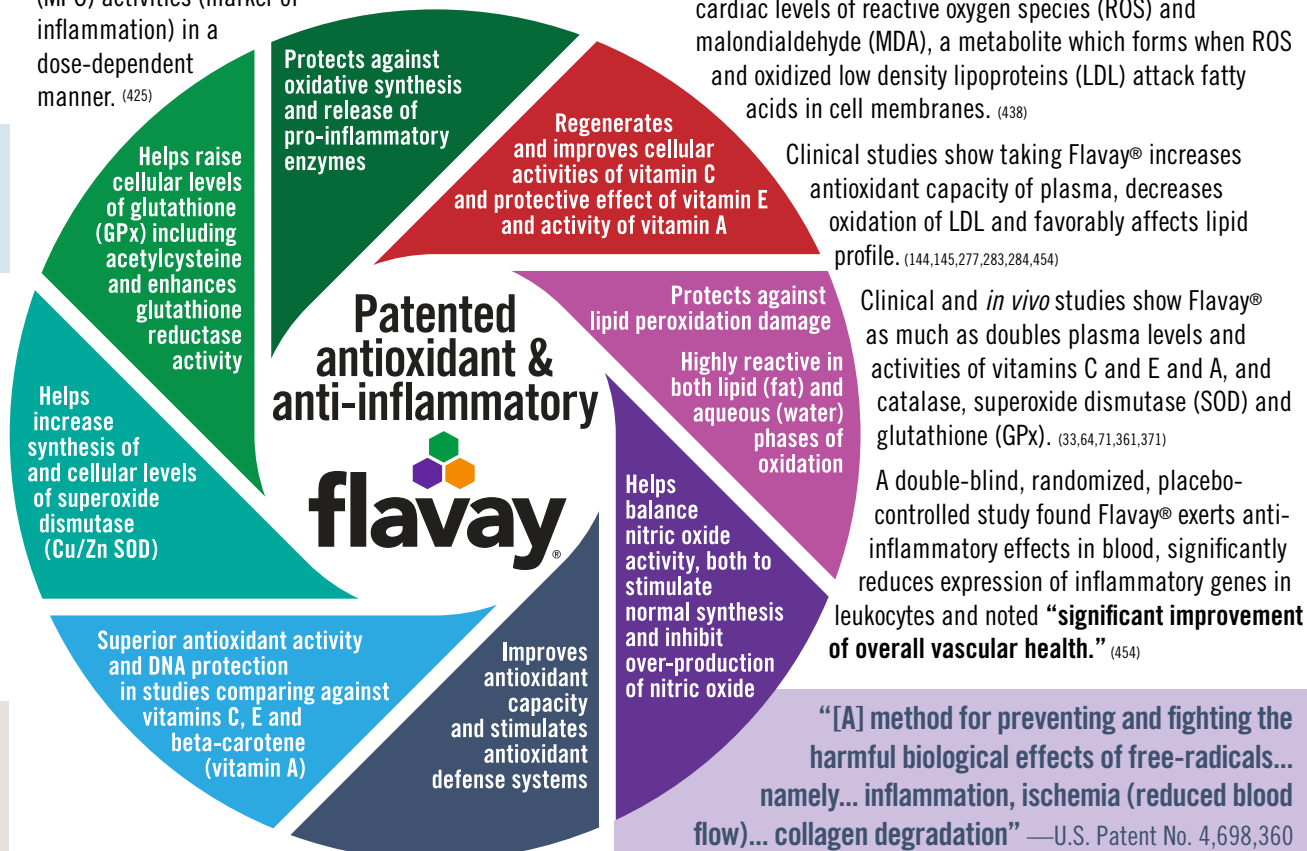
Oxidative stress produces an increase in enzymes such as cyclooxygenase (COX) and lipoxygenase (LOX) which are implicated in the release of interleukins and chemokines, and it has been shown that Flavy® inhibits these pro-inflammatory enzymes. (391,185,230,387,388)

C-Reactive Protein (CRP)

Flavy® is shown to decrease levels of pro-inflammatory molecules C-reactive protein (CRP), interleukin-6 and tumor necrosis factor-alpha (TNF-alpha). (435)

Myeloperoxidase (MPO)

Flavy® is shown to significantly suppress myeloperoxidase (MPO) activities (marker of inflammation) in a dose-dependent manner. (425)



Adhesion Molecules & Inflammation

Research also shows Flavy® is beneficial for cardiovascular health as it modulates monocyte adhesion during the inflammatory process. Flavy® is found to decrease the expression of cell adhesion molecules in endothelial cells. (391,185,230,387,388)

Angiotensin-Converting Enzyme (ACE)

Flavy® is shown to improve vasodilation and mildly inhibit angiotensin-converting enzyme (ACE) by modulating nitric oxide metabolism in endothelial cells. (292,296)

Flavy® Strengthens Antioxidant Defenses & Improves Vascular Health

Flavy® is patented and clinically proven to significantly strengthen antioxidant defense systems, improve intracellular serum total antioxidant activity, reduce inflammatory markers and improve vascular (vessel) health.

Clinical and *in vivo* experiments show that Flavy® decreases cardiac levels of reactive oxygen species (ROS) and malondialdehyde (MDA), a metabolite which forms when ROS and oxidized low density lipoproteins (LDL) attack fatty acids in cell membranes. (438)