

Cardiovascular and Metabolic Health



Merging Science with Nature



Natural e³
DavosLife Tocotrienols



Effects of Modern Day Unhealthy Lifestyles – Obesity, Cardiovascular Disease And Diabetes

Lack of lipid balance can lead to metabolic syndrome — a major risk factor in cardiovascular disease, diabetes and non-alcoholic fatty liver. ^[1,2]

Overeating and insufficient exercise are negative attributes of modern day lifestyles. This can lead to excessive weight gain and obesity which play important roles in the development of metabolic syndrome. Metabolic syndrome increases the risk of cardiovascular disease and diabetes.

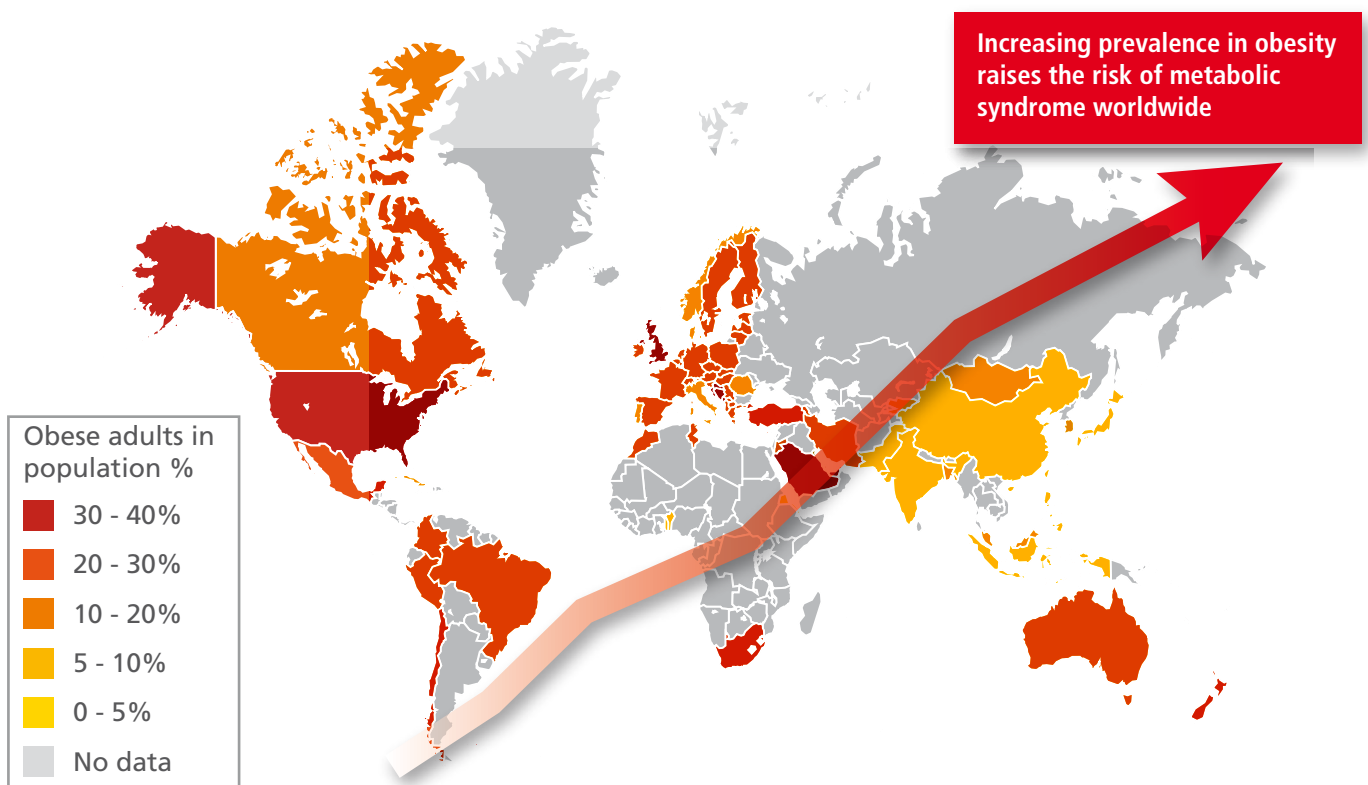
A person who has metabolic syndrome is twice as likely to develop cardiovascular disease and five times as likely to develop diabetes as someone who does not have metabolic syndrome. ^[3]

An elevated triglyceride level due to a lack of lipid balance (dyslipidemia) is a core factor of metabolic syndrome. Dyslipidemia promotes fatty plaque formation in blood vessel walls (atherosclerosis) laying the groundwork for cardiovascular disease.

Metabolic syndrome also contributes to the development of non-alcoholic fatty liver disease (NAFLD), a common medical condition that can lead to inflammation (hepatitis) and scarring (cirrhosis) of the liver. ^[4]

The global obesity problem ^[5]

An elevated triglyceride level is closely linked to obesity, a main variable in metabolic syndrome. ^[6]

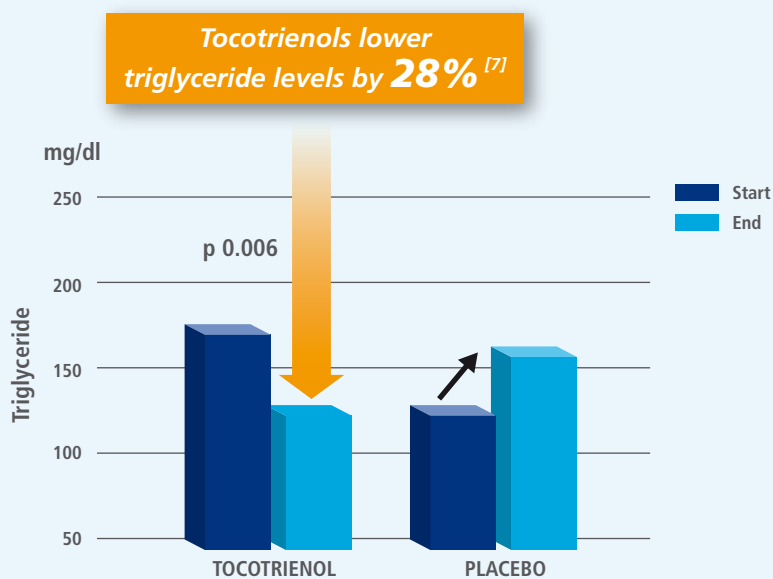


An obese adult is classified as having a Body Mass Index equal to or greater than 30



Achieve Lipid Balance Through Well Controlled Triglyceride Levels

Scientific Evidence



Double-blind, placebo-controlled clinical study conducted in humans with elevated blood cholesterol levels (>200 mg/dl) using 120 mg/d tocotrienol for eight weeks. Results showed tocotrienols decrease triglyceride levels by 28% as compared to an increase in triglyceride levels in the placebo group. In addition, tocotrienol-treated subjects showed decreasing trends in average weight, body fat mass, body fat percentage and waist measurement.^[7]

Fig. 1 Triglyceride levels in tocotrienol and placebo groups after eight weeks.^[7]

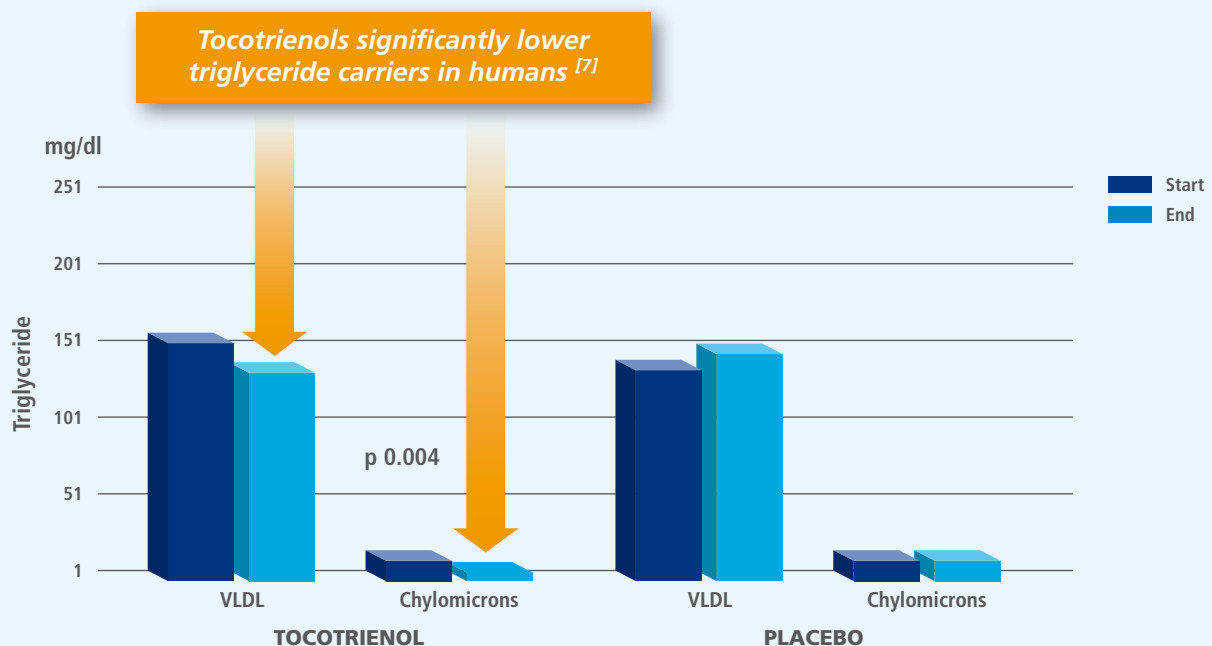
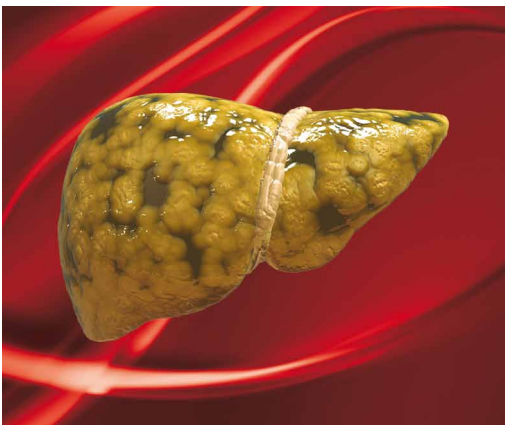
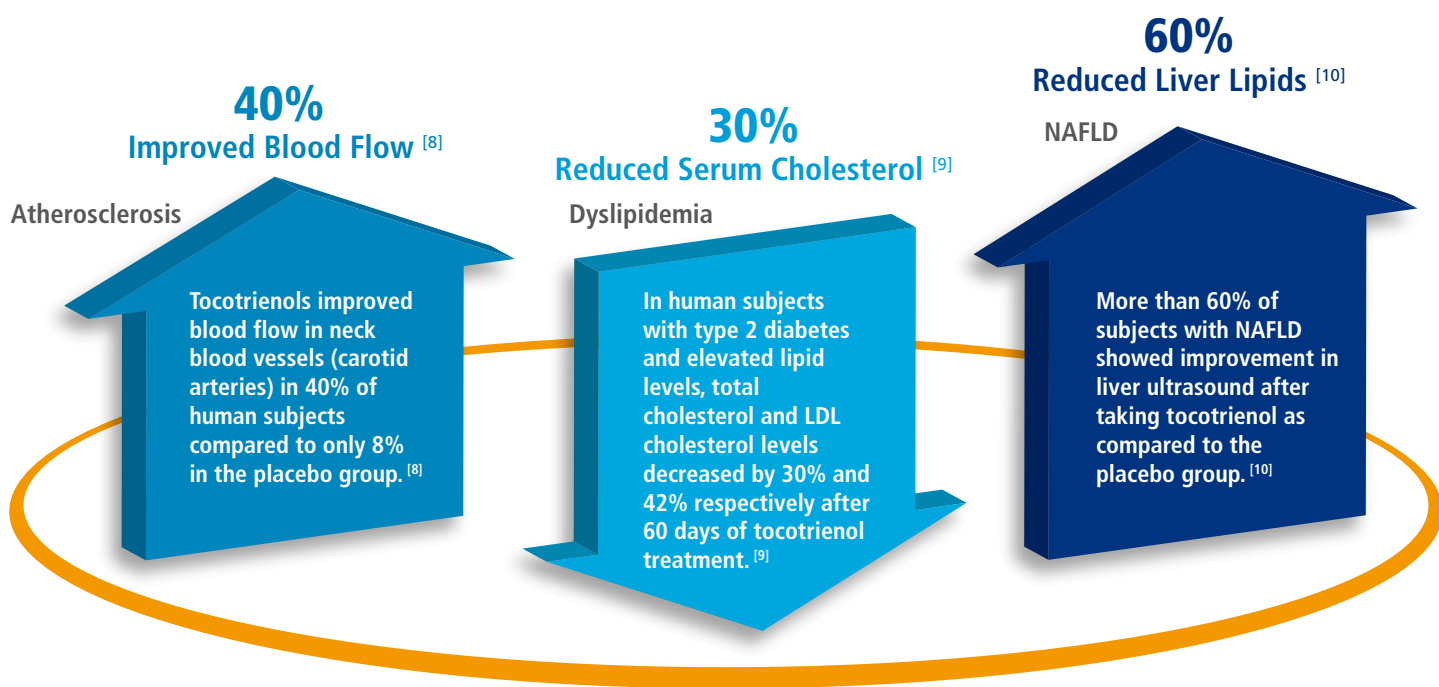


Fig. 2 VLDL and chylomicron levels in tocotrienol and placebo groups after eight weeks.^[7]

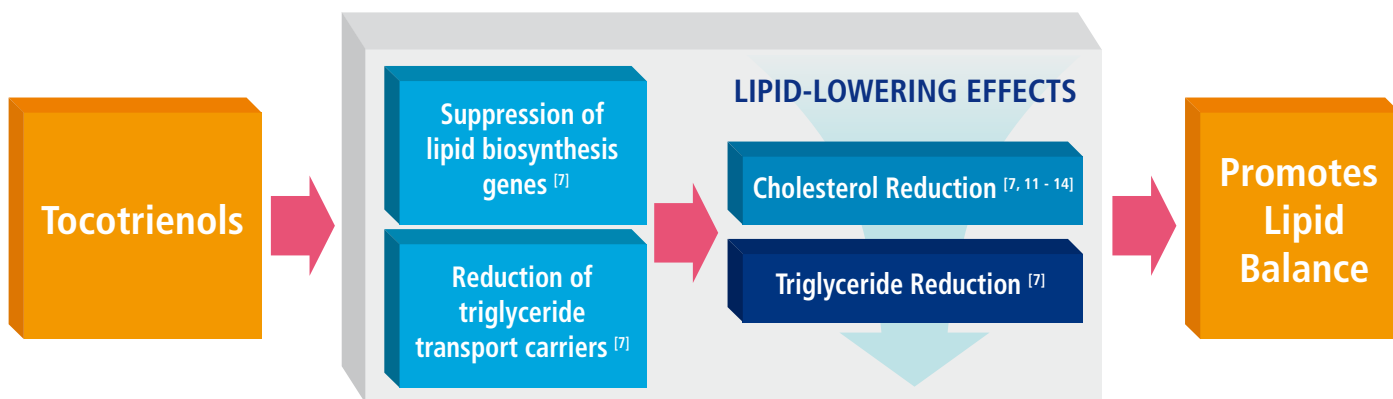


Tocotrienols For Healthy Lipid Levels, Blood Vessels And Liver

Scientific Evidence



Mechanism of Action



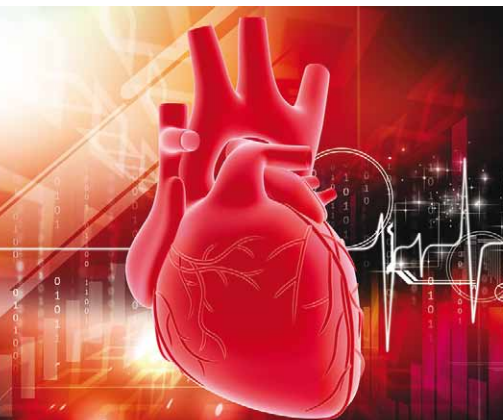
Reference:

[1] Galassi, *et al.* 2006
 [2] Bellantani, *et al.* 2010
 [3] http://www.nhlbi.nih.gov/health/dci/Diseases/ms/ms_whatIs.html

[4] Vanni, *et al.* 2010
 [5] WHO. 2005
 [6] Opie. 2007
 [7] Zaiden, *et al.* 2010

[8] Kooyenga, *et al.* 2001
 [9] Baliarsingh, *et al.* 2005
 [10] Magosso, *et al.* 2010
 [11] Correll, *et al.* 1994

[12] Qureshi, *et al.* 1991
 [13] Qureshi, *et al.* 2002
 [14] Tan, *et al.* 1991
 [15] Davos Life Science. Data on File.



Natural Way To Enhance Cardiovascular And Metabolic Health

Safety*

Natural e³ obtained US FDA generally recognized as safe (GRAS) status in 2010. Toxicology testing has shown Natural e³ to be safe for oral and topical applications. ^[15]

TOXICOLOGY TEST	RESULTS
Acute oral toxicity studies	LD50>2000mg/kg
Acute dermal toxicity study	Non-skin irritant
Primary eye irritation study	Non-eye irritant

Table 1. Results of toxicology testing for Natural e³ according to OECD guidelines

* Safety and toxicity profile available upon request



Dose

Recommended daily dose of 100 to 200 mg of tocotrienols in one or two servings per day.

Application

Suitable for incorporation in dietary supplement formulations and in functional food and beverages to promote lipid balance, healthy blood vessels and liver health.



**Derived from Nature
Driven by Science**



World Leader in High Quality, High Purity Palm Tocotrienols

**DavosLife - No.1 Supplier Of
High Purity Palm Tocotrienols**

Stable Supply

DavosLife produces a 100% natural tocotrienol-rich complex extracted using standards of the highest quality from GMO-free palm fruit fully traceable to the plantations of its parent Company, the Kuala Lumpur Kepong Berhad Group. Natural e³ contains a balanced blend of all tocotrienol isoforms (alpha, beta, delta, gamma) at high concentration levels for maximum health benefits.

Science Driven

DavosLife has established the world's largest tocotrienol R&D center to spearhead cutting-edge tocotrienol research and innovation in chronic diseases and skin care. It was awarded the 2010 Asia Pacific Excellence in Research Award in the Natural Vitamin E Market by Frost and Sullivan.

Unrivalled Technical Support

Our team of experienced in-house scientists is available to support your technical needs ensuring that you meet the demands of today's market.

Custom Formulations

We offer custom formulations for higher potencies to meet your needs.



Natural e³
DavosLife Tocotrienols

Available Products:

High Purity Palm Tocotrienol Oil
Up to 95% (total vitamin E)

Palm Tocotrienol Powder
Up to 30% (total vitamin E)

T3Boost™ - Water Soluble Tocotrienol
Up to 1.5% (total vitamin E)

Tocotrienol Isomers
up to 97% (alpha, beta, gamma, delta)

**Palm Tocotrienol Analytical Test
and Cell Culture Kits**



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