

# **Heart attack/stroke prevention**

**Prepared by**

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## **A special public service health report**

“A must read for anyone who is concerned about their present and future health”.

With this report we hope to show you the importance of maintaining a healthy heart...and to give you useful information that you can apply to help you do so.

Heart disease/strokes are the biggest cause of death and disability in the western world, and yet ironically it is one of the easiest to control. In spite of this, the statistics indicate the situation is getting worse.

It is therefore crucial that you understand your risk of a potential heart ‘event’ and be aware of the options available to you in order to reduce your risk. This report will help you gain a broader understanding of what the main indicators of potential heart disease are and how you can avoid being a statistic.

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# Statistics

These are the facts as presented by the American Heart Association. Although these are American figures they are indicative of western countries whose population has a similar lifestyle and diet to the USA. One notable exception in the western world is France whose people eat quite differently. Their statistics for heart disease are much better.

In 1998: (More recent figures have not as yet been released)

- 60.8 million Americans had one or more forms of cardiovascular disease.
- 40.6 percent of all deaths in the USA were as a result of heart related disease.
- 1 out of every 2.5 deaths was from heart disease.
- Almost a million people died in the US from heart disease. (949,619). To put this into perspective, an additional 541,532 people died from cancer, another 97,835 by accident and 13,426 from AIDS.
- There are currently 4.5 million survivors of a stroke still alive. Many of them will have recurrent strokes.
- 12.4 million people alive in the US today have had a heart attack and are... high risk.

These statistics are quite staggering and indicate how high the risks really are. Having a fatal heart attack is one thing but having a non fatal debilitating stroke is something else. This data reinforces the need for everyone to be aware of the risks and make an effort to avoid being one of the statistics.

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# Avoiding Tragedies

Many of the human tragedies that result from heart disease could be avoided! To avoid being a statistic you need to have a better understanding of...

- What causes heart disease.
- How to assess if you are a potential 'heart disease' candidate.
- What to do if you are at risk.

You cannot rely upon your physician to protect you. They are already overworked dealing with patients that are already sick! Preventing heart disease in the first instance is your own responsibility... no one else's!

This report will examine the latest 'predictors' of potential heart disease, all of which are very useful as advance indicators of pending heart problems.

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## Essential blood tests

Your first step in finding out if you are in the risk category is to have a blood test. This is best done through your physician but not necessarily. You can often have these tests carried out by a local medical laboratory.

Listed below are the four most important blood tests that you should have. Note: If you are arranging these tests through your physician suggest that she/he also carries out other standard tests at the same time for Liver Function, Renal Function, carbohydrate metabolism, and if you are a male over 40 a PSA test... and of course any other tests they may recommend including taking your blood pressure.

Below is the list of the four tests for predicting your risk factors for heart disease:

- Cholesterol. Both LDL and HDL.
- Triglycerides.
- Homocysteine.
- C-Reactive Protein.

### An explanation

Following are brief and simple explanations about what these four substances are. This is followed with an explanation of what are considered 'normal' levels of each and what is optimum. This will help you put the results into perspective and thus enable you to discuss them with your physician in an intelligent manner.

#### Cholesterol

Many people are of the misconception that the amount of cholesterol that you have in your bloodstream is directly related to your diet. Whereas diet is one of the factors in influencing cholesterol levels it is a relatively small one as over 80% of your blood cholesterol is manufactured by your liver.

A lot of people do not fully appreciate how essential cholesterol is for good health. It is a non soluble waxy substance which your body needs for making hormones, cell walls and nerve sheaths. It is transported around your body in two different forms.

One form is called LDL (low density) or the 'bad' or 'oxidized' cholesterol, and the other is HDL (high density) or the 'good' cholesterol.

LDL cholesterol may attach itself to your artery wall and may create 'plaque' which can ultimately accumulate and create a blockage in your arteries resulting in a heart attack, or a stroke if some of the capillaries in your brain become blocked and parts of your brain are starved for blood. Your LDL cholesterol needs to be as low as possible.

HDL cholesterol travels around in your bloodstream picking up excess cholesterol including LDL cholesterol and taking it back to your liver for reprocessing. Sort of like a garbage collector! Your HDL cholesterol must be as high as possible to ensure adequate 'housekeeping'.

Therefore, the most important figures to examine when looking at your test results is not your total cholesterol (which is still important) but rather the ratio between the LDL and HDL cholesterol. You want the LDL as low as possible and the HDL as high as possible.

### **Triglycerides**

Unfortunately many physicians focus too much on Cholesterol, and prescribe a statin drug for lowering cholesterol and ignore the other crucial factors of which Triglycerides is one.

Triglycerides are a major risk factor in heart disease. Excess levels will thicken your blood, making it 'sludgy' which in turn leads to a risk of clotting that in turn can cause a blockage which triggers off a heart attack or stroke. Make sure you have this test done.

A word of caution. Triglyceride levels are directly influenced by what you eat prior to your blood test. Make sure that you schedule your test for the morning and only drink water prior to having the blood sample taken.

### **Homocysteine**

Studies have established that around 10% of coronary deaths and an even greater proportion of deaths related to strokes are caused as a direct result of excessive homocysteine. In these cases the victims were within the 'safe' limits of their blood lipid readings including cholesterol.

Homocysteine is a protein created by the metabolization of the amino acid methionine and it has an important role in the development of heart disease. In most people it is normally cleared out of the arteries quickly and is therefore not a problem... but with some people it does not and as such it should not be overlooked as it is a genuine marker of potential heart disease.

Interestingly, elevated levels of homocysteine result not from what you eat but rather from what you DON'T eat. Studies have shown that a deficiency of nutrients and in particular the B group of vitamins prevent your body from producing the enzymes needed to remove homocysteine from your blood.

## **C-Reactive Protein**

This is quite a new test and an important one. In the coming years it will become much more 'mainstream'. Very briefly... the presence of C-Reactive Protein in your blood indicates the presence of inflammation in your blood. Studies have shown that high levels of inflammation is an accurate predictor of future heart problems, and according to papers presented at the American Stroke Association held on the 14 - 16th Feb 2001 it was shown that elevated levels of this marker more than double the risk of a stroke.

If possible have it checked out as part of your blood testing.

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## Blood levels – Marker Guidelines

Below are the 'normal' acceptable levels set by mainstream medicine for each of the four above substances. Alongside the 'normal' levels are listed the amounts which are considered by experts in this area of medicine to be the optimal levels.

### CHOLESTEROL

*For the USA:*

	<b>'Normal'</b>	<b>'Optimal'</b>
<b>Total Cholesterol</b>	Up to 199 mg/dL	Between 180 - 220 mg/dL
<b>LDL Cholesterol</b>	Up to 129 mg/dL	Under 100 mg/dL
<b>HDL Cholesterol</b>	No lower than 35 mg/dL	Over 50 mg/dL

*For the rest of the world:*

	<b>'Reference range'</b>
<b>Total Cholesterol</b>	Less than 5.0 mmol/L
<b>LDL Cholesterol</b>	Less than 3.0
<b>HDL Cholesterol</b>	1.0 – 2.5 mmol/L

To convert from the US standard to the standard used in the rest of the world, multiply by .0259. Vice versa: rest of the world to US: x 38.7.

### TRIGLYCERIDES

*For the USA:*

<b>'Normal'</b>	<b>'Optional'</b>
Up to 199 mg/dL	Under 100 mg/dL

*For the rest of the world:*

<b>'Reference range'</b>
Less than 2.0

### HOMOCYSTEINE

<b>'Normal'</b>	<b>'Optional'</b>
Up to 15 micro mol/L	Under 7 micro mol/L

## C-REACTIVE PROTEIN

'Normal'	'Optional'
Up to 4.9 mg/L	Under 2 mg/L

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# Natural and effective protocols to help avoid heart disease.

We will now review each of the four markers of potential heart disease and make suggestions which may help you against becoming a victim of a heart 'event'.

## CHOLESTEROL

This is by far the most commonly known marker and one of the most important. It therefore warrants the highest amount of emphasis. It is also important to be aware that some people are genetically predisposed to higher than normal cholesterol levels. This does not necessarily create a serious problem PROVIDED there are no abnormalities with the other markers. Nonetheless, you should make every effort to normalize high levels of LDL cholesterol, or, raise low levels of HDL Cholesterol.

If your cholesterol levels are out of line, the majority of physician's will recommend one or both of the following:

1. Modify your diet, OR
2. Modify your diet PLUS prescribe you one of the FDA approved statin drugs.

Be warned about statin drugs. They can have dangerous side effects...even fatal ones as evidenced by the removal of Baycol from the marketplace! The death toll from this product was unacceptable...

This is one of the reasons why you should be exploring safe, alternative cholesterol lowering remedies... with NO side effects.

## CAN YOUR CHOLESTEROL LEVEL BE TOO LOW?

The goal posts for cholesterol levels have been shifted at least twice over the last few years. Are the new artificially low and aggressively promoted levels warranted? Many Doctors and experts certainly don't think so. In fact there is a great deal of concern being raised by independent researchers and physicians that these new levels may actually be dangerous... for many reasons. To better understand the dangers of cholesterol levels that are too low, you may like to read the following.

Studies have indicated that total cholesterol levels below 190 for males and 178 for females may enhance the risk of "bleeding" strokes and death from cerebral haemorrhage.

Cholesterol may affect the metabolism of serotonin, a substance involved in the regulation of mood, as research has shown that serotonin levels are reduced in men with low levels of cholesterol. There may be an association between suicidality and low serum cholesterol levels (total cholesterol under 160) in people suffering from panic disorder. Total serum cholesterol and LDL levels were found to be lower in a para-suicidal population at statistically significant levels. Studies among patients suffering from major

depression showed an association between low cholesterol and major depression. Some trials showed that clinical recovery may be associated with a significant increase of total cholesterol. Some studies show that low cholesterol is associated with increased subsequent criminal violence.

It has been found that relatively low cholesterol levels have been associated with increased mortality from cancer and non-atherosclerotic causes of death. Hypo-cholesterolemic men had differences in immune system compared to men with high cholesterol levels, as they had significantly fewer circulating lymphocytes, fewer total T cells, and fewer CD8+ cells.

A too low cholesterol level has been associated with the onset of Alzheimer's disease.

Cholesterol is a very important substance and is an essential precursor to your hormonal cascade and particularly your sex hormones. It can have a negative impact on your general health if levels are pushed artificially low. Excessively low levels of cholesterol are certainly proven to weaken your immune system and increase your chances of dying from an infectious disease.

### **Diet and natural treatments to improve blood cholesterol levels**

When recommendations are given to modify your diet the 'official line' is to emphasize the importance of reducing dietary fats and foods high in cholesterol. This has been the approach for the last couple of decades and as recent research clearly shows... it is totally the wrong one. In fact, for as long as this has been the official stance heart disease has steadily increased. It is possible to reduce your cholesterol levels by diet, but just eliminating fats and cholesterol will not do it!

For most people cutting out eggs and butter will have minimal impact on your cholesterol levels. What is more important is that you stop eating margarine (which is full of trans fats...yes, even the so called 'healthy' margarines with the 'heart' tick...amazing what a good donation will get you). Also reduce your intake of refined and processed foods which are full of hydrogenated fats and oils as well as trans fats. These are MUCH more dangerous than the saturated fats in butter and eggs which your body can handle and indeed needs.

In fact, studies have clearly established that the low fat, low cholesterol approach is a very dangerous one because it can lower HDL, the good cholesterol but only have minimal impact on LDL, the 'bad' cholesterol. As a result low fat diets do not help to correct cholesterol imbalances and in fact can make the situation worse.

If you are not already doing so start adding Omega 3 essential fatty acids to your diet. NOT via margarine! The lack of these essential fatty acids is a major factor in heart problems. The best form of Omega 3 for your heart is without doubt pure fish oil. However, it must be PURE and totally free from contaminants. (Check out the Xtend-Life Omega 3/DHA fish oil esters from New Zealand.) Note: These essential fatty acids will NOT make you fat, but rather will help you lose weight.

For cooking use only 'Extra Virgin Olive Oil'. Studies have shown that this version can help lower LDL cholesterol and raise HDL... but, it MUST be the 'Extra Virgin' olive oil. Ordinary virgin olive oil does not lower LDL. Also, use as much garlic as you can in your cooking. This has been shown to help lower cholesterol. The value of odorless garlic supplements is very much in doubt. It is thought that the substance in garlic called 'allicin', which gives out the pungent odor is where the health benefits lie, and this has been removed from most supplements.

In addition take a quality natural cholesterol lowering supplement that contains genuine Policosanol which is an extract from sugar cane, (does not increase blood sugar levels) plus guggulipid which is a natural herb from India. These substances alone have proven to be highly effective in numerous double blind, placebo clinical trials in lowering LDL and raising HDL. They will outperform the statin drugs with no side effects, other than assisting in the normalization of weight. For more info on these refer to the addendum on the Xtend-Life Cholesterol formula.

## **TRIGLYCERIDES**

If you have high Cholesterol AND high triglycerides your risk of a heart event goes up exponentially. You MUST deal with both substances.

Many of the accepted protocols for lowering cholesterol also apply to triglycerides, so use the same suggestions as set out above for cholesterol if your triglycerides are out of whack... in addition to the dietary suggestions.

HOWEVER, you must also be aware that levels of triglycerides are heavily influenced by your diet. What you should eat to reduce your TG levels has been well known since the publication of a paper on the subject by P.K. Reissell's group at Harvard in 1966. Their study established clearly that TG levels can be dramatically reduced simply by the supplementation of omega 3 fatty acids, plus vitamin C, COMBINED with a low carbohydrate diet.

For some reason this and other studies which clearly establish that high TG levels are caused through the over consumption of refined, processed carbohydrates seem to be largely ignored. Fat is still viewed as being the 'bogey man' but it is simply not true, certainly in the case of 'natural animal' fats. Trans fats and hydrogenated oils should be avoided at all costs.

Sugars are a big factor in raising triglycerides as excess sugar converts to glucose which in turn converts to glycogen which is stored in the muscles and organs, but any excess glycogen gets converted to triglycerides which goes to the storage areas in the body without any limitations...stomach, thighs, buttocks etc. Avoid sugars, processed and refined foods...and of course sodas like the plague!

Guggulipid, the herb referred to above has found to be effective in lowering triglycerides.

## **HOMOCYSTEINE**

This is another substance that you don't want to have an excess of! High homocysteine results NOT from what you eat but rather from what you DON'T eat. Strict vegetarians are particularly vulnerable as high homocysteine is brought about by a deficiency in B vitamins which is difficult to get without animal derived foods. If you don't have enough of the B vitamins, especially B6, B12 and folic acid in your body you cannot manufacture the enzymes needed to remove Homocysteine.

You may like to know that foods that are rich in vitamin B6 are: brewer's yeast, cereal, oatmeal, chicken, kidney, liver, egg yolks, mackerel, salmon, tuna, walnuts, and legumes. Foods rich in vitamin B12 are: clams, egg yolk, herring, kidney, liver, meat, milk, oysters, salmon, and sardines. Foods rich in folic acid (or folate) are: beans, green leafy vegetables, lentils, organ meats and yeast.

Excessive levels of Homocysteine will damage your arteries. Fortunately it is one of the easiest abnormalities to correct. Like Triglycerides, the dangers of high homocysteine have been 'swept under the carpet' for decades. Back in the late 1960's Dr Kilmer McCully determined as a result of well conducted research that Homocysteine could be normalized by taking adequate amounts of folic acid, plus the vitamins B6 and B12.

However, powerful forces worked against Dr McCully and he was 'let go' from his position as a pathologist, denied tenure and his work was branded as 'insignificant'. It took a further 15 years and approx 1.5 million deaths related to elevated homocysteine before it was acknowledged that he was right. Now, supplementation of the B vitamins is an accepted protocol even by mainstream medicine.

## **C-REACTIVE PROTEIN**

This is a marker which indicates an inflammation of tissue in the blood which can lead to long term damage to your heart. Most physicians will prescribe a daily dose regimen of aspirin or one of the non steroid anti-inflammatory drugs. Try to avoid this treatment.

Fish oil will help naturally reduce inflammation as will ginger, turmeric and MSM (methyl sulfonyl methane) a naturally occurring sulfur compound found in some vegetables. It is also common in many arthritis formulas. We include it in our 'Total Balance' as well as turmeric and ginger extract. However, if your blood tests show excess levels of C-Reactive Protein you will have to take a lot more than what we use... maybe up to 5,000mgs a day.

## **BLOOD PRESSURE**

An amazingly high percentage of people have high blood pressure which is another indicator of heart disease/stroke risk. Prescription drugs are often prescribed for this condition. They should be a last resort because of the long term damage they can do to your health.

There is no simple 'pill' solution for high blood pressure. Because of potential side effects try to avoid resorting to prescription drugs for this condition. Make an effort to lower it by

the most reliable natural method...exercise and good diet. Prepare an exercise program with a knowledgeable person...and stick to it for at least 6 weeks when it will hopefully have become a habit. You don't need to become a fanatic about exercise, but you must do some, because quite apart from helping lower your blood pressure it will help your overall health enormously.

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## **Cholesterol lowering drugs - the 'STATINS'**

These drugs are the treatment of choice in mainstream medicine for lowering cholesterol levels... a multibillion dollar industry.

These drugs work by blocking an enzyme (HMG-CoA reductase) which the liver needs for the manufacture of cholesterol. They are produced by quite a number of pharmaceutical companies under a wide range of trade names.

Here is a list of the common statin drugs with their 'commercial' names, atorvastatin (Lipitor), lovastatin (Mevacor), pravastatin (Pravachol), rosuvastatin (Crestor) and simvastatin (Zocor). One other product which was on the list 'Baycol' has been removed as that product was withdrawn due to 'unacceptable' levels of deaths of patients using it.

These drugs do without doubt help reduce your LDL cholesterol levels but have minimal effect on HDL... but you pay the price by way of considerable side effects. They also deplete your body's level of essential CoEnzymeQ10.

Please refer to an extract of a special article that we prepared on statin drugs which is attached as an addendum to this report. These drugs are dangerous. The evidence of this is overwhelming.

There is no need to subject yourself to the risks of this drug given that there are natural alternatives that will outperform these drugs with total safety.

## **A report on 'statin' drugs. (an extract from the website of Xtend-Life)**

(To view the full article please go to:

<http://healthybody.xtend-life.com/products.asp?product=ch&page=facts&id=452447>)

"It has been known for some time that statin drugs are dangerous. Right from the outset it has been known that these drugs can cause liver problems.

The liver risks have been well documented as have aching muscle pain and sexual dysfunction problems including reports of impotence whilst the drug is being ingested. Recent research in Switzerland also indicates that statin drugs can suppress your immune system... very undesirable!

More recently, the Wall Street Health Journal on the 1st Feb 2002 raised other ADDITIONAL side effect concerns which have been reported by Doctors and patients. These are:

- Memory loss
- Personality changes
- Irritability

The National Institute of Health has now initiated an independent study to examine the side effects of statin drugs. Unfortunately it will be 2004 before their studies are complete which means the debilitating side effects will continue in the meantime with millions of patients. You can read an interesting interview with the principle investigator of the National Institute of Health, Dr Beatrice A. Golomb, MD, PhD. by logging on to the internet and looking up"

<http://www.coloradohealthsite.org/topics/interviews/golomb.html>

An interesting report on statin drugs has been written by Bill Sardi, an investigative health journalist. To refer to this report, click on this URL:

<http://www.billsardi.com/sdm.asp?pg=cr>

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## Cholesterol lowering NATURAL nutrients

The top nutrients listed below have been proven in numerous double blind, placebo trials and studies to significantly outperform the statin drugs in improving blood serum levels of cholesterol.

They are:

- **Policosanols:** A natural extract from sugar cane and rice bran wax. (It will not increase your blood sugar levels.)
- **Guggullipid:** An ancient Indian herb. Not only will this herb assist with normalizing your cholesterol levels, but it will also help lower Triglycerides.
- **Phytosterols:** Plants sterols with a structure similar to cholesterol. Inhibits intestinal absorption of cholesterol and reduces blood levels of cholesterol.
- **Theaflavins:** Compounds found in tea which can lower LDL cholesterol and raise HDL cholesterol.
- **Oryzanol Rice Bran Oil:** Contains plant sterols, gamma oryzanol and tocotrienols, which reduce cholesterol and triglycerides.
- **D-Limonene Oil:** A natural compound in orange peel oil.
- **Pumpkin seed oil:** Rich source of fatty acids, natural minerals such as zinc and selenium, and carotenoids.
- **Lecithin Oil:** Phosphatidylcholine and inositol present in lecithin help to 'cleanse' the liver. Lecithin helps to emulsify fat in the body, in order to excrete it better.
- **Vitamin E Oil:** Natural vitamin E oil, present as a natural anti-oxidant or preservative.

When considering possible alternatives to 'mainstream' cholesterol lowering drugs it is important that you can be 100% certain that you are receiving accurate information. A good way to do this is to review published clinical trials or studies on one or more of the nutrients claimed to be effective. An example of one of the studies on Policosanols is reproduced below.

### Study Comparing Policosanol with a Statin Drug

In this study patients were first put on a 6 week cholesterol lowering diet. Each group was given daily either 20mgs of Lovastatin (Mevacor) or 10mgs of Policosanol for 12 weeks. The results are listed below:

	Lovastatin 20mg	Policosanol 10mg
Total Blood Cholesterol - reduced	14.0%	14.2%
LDL Cholesterol - reduced	16.8%	20.4%
HDL (good) Cholesterol - raised	no change	7.5%
LDL to HDL Ratio - reduced	14.9%	23.7%

If you have access to the internet go to the following link and review dozens of independent studies and trials on Policosanol. You can also check out the other nutrients as well.

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=PubMed&term=policosan ol&dispmax=100&doptcmdl=Detailed>

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# Natural Cholesterol Lowering Supplements

To be effective, a natural cholesterol lowering supplement must have as its base the genuine Policosanol extract in an amount which provides for at least a 20mg serving per day. This is the amount that is consistently used in the many studies. However, clinics in Europe have been successfully and safely using amounts up to 100mg.

Cautions also apply to the other nutrients listed above. There is a range of extract potency. Also the source is important along with confirmation that they have been subject to all the microbiological tests prior to encapsulating.

Because of these and other issues only the supplement produced by Xtend-Life Natural Products(Int) Ltd in New Zealand will be outlined in this report. This natural cholesterol lowering product which is considered to be the most advanced, professional and synergistic cholesterol lowering dietary supplement in the world uses only the genuine highest potency policosanol. In addition it is the only product that contains a number of other healthy heart nutrients as well as ingredients that can assist in lowering cholesterol and triglycerides.

This product is known as '**XTEND-LIFE Natural Cholesterol Formula**'. A bottle which is one months supply costs US\$32.95. If you are interested in this product please see ordering details at the end of this report.

<b>SUPPLEMENT FACTS CHOLESTEROL FORMULA</b>	
60 Soft gels per bottle	
Recommended daily serving size. Adults: 2 soft gels with evening meal.	
<b>Two Soft Gels</b> contain the following:	
Policosanol (from sugar cane)	25mgs
Policosanol (from rice bran)	25mgs
Phytosterols (Beta Sitosterol)	330mgs
Guggulipid Extract	150mgs
Theaflavin Extract (from green tea)	100mgs
Proprietary natural oil blend of:	1,320mgs
Oryzanol Rice Bran Oil	-
D-Limonene Oil	-
Pumpkin Seed Oil	-
Vitamin E Oil	-
Lecithin Oil	-
NO ADDITIVES OR FILLERS	

Following is a brief explanation of the ingredients used in the XTEND-LIFE formula. All ingredients used are pharmaceutical grade only. No synthetic ingredients are used.

## Ingredient Information

**Policosanol:** This is the genuine extract from sugar cane wax and rice bran wax which has been the subject of multiple clinical trials. In fact, there has probably been more studies and trials carried out on this substance than for most pharmaceutical drugs. The efficacy of this substance in lowering the levels of LDL (bad cholesterol) and raising HDL (good cholesterol) is without question. Not only that but it has also been proven in long term trials to be free of side effects.

**Phytosterols:** Phytosterols or beta-sitosterol are plant sterols with a chemical structure similar to cholesterol. It actually inhibits intestinal absorption of cholesterol by competing for the limited space in mixed micelles; cholesterol absorption is decreased by about 50%. Beta-sitosterol reduces blood levels of cholesterol.

**Guggulipid Extract:** Is an ancient herb from India. It has been used for about 2000 years for a variety of ailments including weight loss. Over recent years many clinical trials have proven its efficacy in lowering serum cholesterol and also it is one of the few substances that can effectively lower triglycerides. In fact, these trials have shown this herb to be more effective in lowering cholesterol than the modern statin drugs...but with no side effects. Statin drugs do not lower triglycerides.

An interesting benefit from this substance is that it has been shown to be more effective than tetracycline when used orally for treating nodulocystic acne.

**Theaflavins:** Theaflavins, a group of compounds found in tea, can lower the level of LDL cholesterol and raise the level of HDL cholesterol. Theaflavins are bioflavonoids that are produced when green tea ferments and changes into black or oolong tea. To get the level of theaflavins shown to reduce cholesterol from drinking tea, a person would need to drink 35 cups of tea, every day. Theaflavins of black tea comprise a number of fractions namely, theaflavin, theaflavin monogallate and digallate, epitheafavic acid and iso theaflavin. This extract is quite a lot more expensive to produce than other tea extracts such as the catechins found in green tea. As a result supplements containing reasonable levels of theaflavins are still quite uncommon.

**Oryzanol Rice Bran Oil:** The oil contains beta-sitosterol and other phytosterols that are used to reduce cholesterol absorption. It also contains alpha-linolenic acid, which might increase the concentration of fatty acids such as eicosapentaenoic and docosahexaenoic acids. Other constituents of rice bran oil are gamma oryzanol and tocotrienols, which have been found in human studies to reduce total cholesterol and triglycerides. Oryzanol acts in three ways: 1) by increasing fecal bile acid excretion; 2) conversion of cholesterol to bile acids; 3) inhibition of cholesterol absorption.

**D-Limonene Oil:** A natural compound in orange peel oil, and is a naturally occurring solvent, which helps to successfully dissolve cholesterol gallstones. It has also been shown to reduce cholesterol in a manner similar to tocotrienols.

**Pumpkin Seed Oil:** When used in conjunction with cholesterol lowering drugs pumpkin seed oil appears to increase the overall lipid lowering effects, and side effects of the cholesterol drug were also reduced when PSO was administered. Similar positive results have been found in use of PSO next to anti-hypertensive medication. The blood pressure lowering is due to the essential fatty acids. Because many people also take additional supplements whilst taking the Xtend-Life natural cholesterol formula, the pumpkin seed oil enabled the inclusion of a rich source of natural minerals, in particular zinc and selenium with no risk. By supplying these and other minerals in this form it eliminates the potential of overdosing in some of these minerals which although essential should not be taken in excess.

**Vitamin E (Natural):** A natural anti-oxidant as it prevents other fat-soluble vitamins from being destroyed by oxygen and thus acts as a natural preservative in the Xtend-Life natural cholesterol formula. The amount of this oil used in the formula is quite low so as to not 'overdose' when the formula is used in conjunction with other supplements.

**Lecithin oil:** A natural emulsifying agent that helps suspend globs of fat in the body, thus helping it to be excreted easier. A significant part of lecithin is phosphatidylcholine and inositol which are two important nutrients for cleansing the liver. Phosphatidylcholine is a constituent of bile, which facilitates fat emulsification, absorption and transport, and is essential to form acetylcholine, a neurotransmitter in the central nervous system. It demonstrates an inhibitory effect on cholesterol absorption.

## Summary

I sincerely hope that this report has been of value to you or your loved ones and that it may help you in your quest for vibrant health. Although I am chairman of a Nutraceutical Company which produces professional dietary supplements, the quality of which are second to none, I have a genuine interest in conveying the truth about health and helping people avoid the misery that so often accompanies the use of pharmaceutical drugs.

We welcome the opportunity to show you what our products can do for you, We are so confident that you will see the benefits for yourself that we have one of the strongest 12 month guarantees in the industry.

A further word of caution though...if you are taking prescription drugs of any type particularly blood thinning medication please consult with your health professional prior to taking any natural cholesterol lowering dietary supplements to avoid any possible interactions.

To help further support the health of your heart and improve your general health I would also urge you to review one of our products called 'XTEND-LIFE Total Balance'. This is a synergistic mix of 80 high potency nutrients and was designed by one of the world's foremost bio scientists. Full details can be viewed on the website:

<http://healthybody.xtend-life.com/default.asp?id=452447>.

We also invite you to subscribe to our weekly newsletter XTEND-YOUR-LIFE delivered direct to your in box. You will find valuable information which you can use and benefit from to help you stay healthy... it's free.

To purchase the Cholesterol lowering product referred to in this report you can do so either by visiting the website (<http://healthybody.xtend-life.com/default.asp?id=452447>) and ordering via our secure server, or you can telephone us toll free (Canada and USA) on 1 800 244 4808, or (64) 3 384 2116 international, or toll free from Australia: 1 800 983 635, or from New Zealand: 05 08 983 635. Please provide us with your email address when you call.

If you have any questions about this report you can contact me direct via email on [questions@xtend-life.com](mailto:questions@xtend-life.com) or if urgent via either of the above telephone numbers.

In good health,

*Warren Matthews*



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