

The Science of a Healthier Life®

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February 2024

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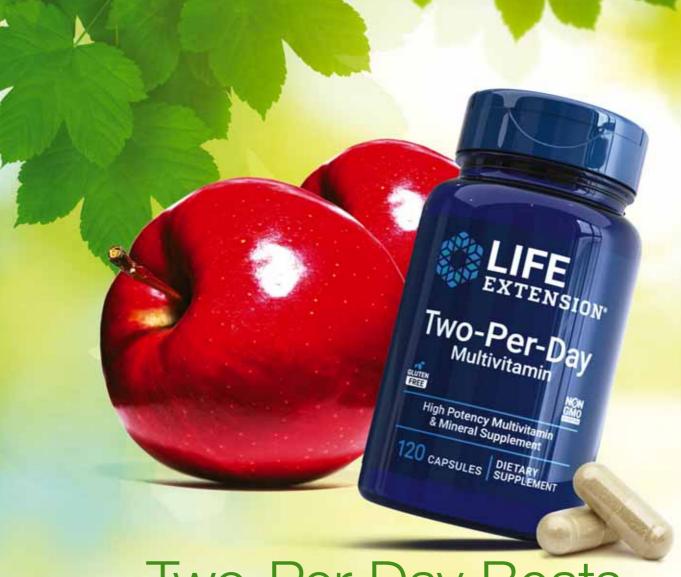


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Sharp Decline of Dementia Prevalence



WILLIAM FALOON

Contrary to common beliefs, the prevalence of dementia in older Americans continues to steeply decrease.

As we reported long ago, those who engage in healthy lifestyles may delay brain aging by 11 years while reducing Alzheimer's and vascular dementia risks.1

The latest data on this topic were published in the Proceedings of the National Academy of Sciences.

Using a new model of **cognitive** status, scientists found a statistically significant 30.1% decline in age-adjusted dementia prevalence in Americans over age 65 from years 2000-2016.2

A significant part of this dementia reduction is attributed to higher education levels.2 Previous studies found higher education^{3,4} along with better diet,⁵ lifestyle,⁶ and management of hypertension⁷ correlating with reduced dementia prevalence.

Overlooked in some media reports is that more highly educated people tend to follow healthier lifestyles and take steps to reduce cardiovascular risks that also accelerate brain aging.

Educated persons may also ingest **nutrients** that correlate with improved brain health.

This editorial describes some of the betterdocumented methods of preserving neurological function with age.



While Overall Rates of Dementia are Soaring, There is a Huge Decline in Dementia Prevalence

THIN WINK

FOUR PUBLISHED STUDIES REVEAL:

DEMENTIA DECLINE

23% per decade decline in dementia prevalence (1977-2008)¹³

24% decline in expected British dementia cases (1991-2011)¹⁴

49% decline in dementia prevalence in Americans (1982-1999)²⁰

26% decline in **dementia** prevalence in Americans (**2000-2012**)¹¹

The term **dementia** refers to a <u>decline</u> in cognitive abilities that leads to loss of **independent function**.

An estimated **4-5 million** older adults in the United States suffer severe neurological impairment.⁸ This total number is expected to **triple** in coming decades.⁹

Not all population groups equally suffer loss of cognitive abilities with age.

Dementia risk plummets in response to healthier dietary/lifestyle choices and better control of **hypertension**, **diabetes**, and **lipids**.¹⁰⁻¹²

In the famous **Framingham Heart Study**, the incidence of dementia among older Americans <u>declined</u> by about **20% per decade** between **1977** and **2008**.¹³

A British study found a **24**% <u>decline</u> in the expected number of cases of **dementia** between **1991** and **2011** among older adults.¹⁴

More recent data confirm how **humans** can further slash *dementia risk*.

For instance, an international expert commission reported in *The Lancet* that more than **40**% of global **dementia** cases may be **preventable** by correcting unhealthy factors that impact individual risk.^{15,16}

Peer-reviewed published studies of **humans** and animals reveal methods that may further protect against **neurodegeneration**.^{6,11,17-19}

Control Your Rate of Brain Aging

Maturing people can exert a degree of **control** over their **rate** of **brain aging**.

When it comes to preventing **dementia**, however, there is no **single** approach.

Everyone should strive for **blood pressure** in the <u>lowest</u> tolerable ranges. I target my blood pressure under **115/75 mmHg**. Others require somewhat higher **blood pressure** to push blood through their aged/damaged circulatory systems.

Reducing **chronic inflammation** is essential for protecting aging brains. Most of you accomplish this via healthy behavior practices.

In a major finding we previously reported on, a group of elderly Americans underwent **cognitive tests** and **MRI scans** to assess **brain function**, and **blood tests** to assess **nutrient status**.²¹

The results identified <u>five</u> categories of **plasma nutrients** associated with enhanced **cognitive performance**.²¹

These **plasma nutrients** include **carotenoids** (like **lycopene**), **vitamin D**, and homocysteine-lowering vitamins (**folate** and **B12**).



MRI imaging revealed enhanced brain network connectivity in those with *higher* plasma carotenoid status and healthy balances of omega-3 and omega-6 fatty acids.²¹

This study found that *higher* levels of **nutrient** <u>combinations</u> measured in **blood plasma** were associated with <u>enhanced</u> <u>cognitive performance</u> and <u>improved</u> <u>brain network</u> efficiency as follows:

- A proper balance of certain omega-3 and omega-6 fatty acids was associated with higher function of two domains of memory.
- Higher lycopene levels were correlated with better scores in three separate domains of memory.
- Higher omega-3 levels (EPA, DHA, and DPA) were strongly linked to better executive function and higher overall intelligence.
- Carotenoids including trans-lutein were positively associated with two measures of intelligence.
- Homocysteine-reducing B-vitamins (vitamin B2, folate, B12) and vitamin D were associated with better executive function.
- Functional MRI analysis revealed that three nutrient biomarker patterns significantly influenced the relationship between functional brain connectivity networks and measures of intelligence and cognitive function.

Readers of *Life Extension Magazine*® have supplemented with the above **nutrients** for many decades.

Restoring Brain Cell "Connectivity"

Our brain contains about 100 million cells called neurons.

In order for neurons to communicate they must connect to one another.

A **synapse** is the connection that allows information to pass from one neuron to the next.

Synapses are essential to neuronal function. Not only are synapses crucial to short-term memory in the young, but their structural integrity is vital for aging individuals seeking to stave off cognitive impairments.²²

When Synapses Degrade

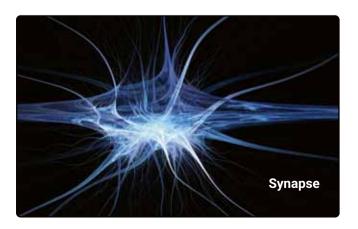
Alzheimer's dementia is characterized by the pathological accumulation of non-functioning plaque in neurons and loss of normal neurotransmitter flow between neurons.

Before neurons encounter severe damage, scientists have found a marked decline in synaptic density.

This loss of synaptic density causes a decline in neuronal connectivity that correlates to the impairments observed in Alzheimer's.23,24

A consistent finding in the brains of Alzheimer's victims is a significant loss of synaptic contacts. This led a group of researchers to conclude:

"...synapse loss is an early event in the disease process and suggests that mild cognitive impairment may be a transitional stage between early Alzheimer's disease and no cognitive impairment... with synaptic loss a structural correlate involved in cognitive decline."25



Magnesium and Synaptic Density

In a series of animal studies, a highly absorbable form of magnesium was shown to increase magnesium brain concentrations.26

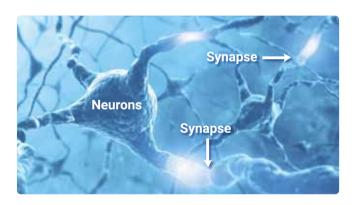
In response to this magnesium elevation there were significant increases in synaptic density and corresponding improvements in synaptic functioning and neuronal signaling.26

These favorable changes in synaptic structure/ function translated into enhanced measures of cognitive function.

Short-Term Memory Restoration

An animal study found that 24 days of supplementation with *magnesium L-threonate* produced an increase in cerebrospinal magnesium sufficient to boost short- and long-term memory scores. Other forms of magnesium did not significantly elevate brain magnesium compared to the control group.26

Another study on memory-impaired aged rats showed that magnesium L-threonate could reverse the kind of cognitive dysfunction that occurs in normal aging humans. Magnesium L-threonate was added to the rat's drinking water for one month. This enabled a significant improvement of short-term memory.26



Long-Term Memory Research

Young and old animals underwent maze training with a delay interval. Animals supplemented with magnesium L-threonate learned to find the hidden platform in the maze *faster* than non-supplemented animals.

The degree of learning ability enhancement in the aged animals was greater than in young animals. This makes sense since aged animals suffer more loss of synaptic density that magnesium L-threonate has been shown to restore.26

To test long-term spatial memory, a second trial test was performed 24 hours later. The unsupplemented "control" group forgot how to perform in the maze, whereas young and aged animals supplemented with *magnesium L-threonate* retained their ability to navigate the maze. This might be equivalent to an older human being able to find their car in a crowded parking lot.

The researchers concluded, "Magnesium L-threonate significantly enhanced hippocampus-dependent spatial learning and memory in both young and aged rats."²⁶

Correlation Between Synaptic Density and Memory

Scientists next sought to verify that the mechanism behind **improvements** in **memory** and cognitive performance was due to increased **density** of the **synapses**.

Studies were done to precisely measure the various **synaptic structural** components in the **brain**.

Rats supplemented with *magnesium L-threonate* showed across-the-board *improvements* in *synaptic* protein expression, function, and structure, along with long-term potentiation of *synaptic* strength.²⁶

Reversal of Synaptic Decline

Several studies indicate that **synaptic connections** decline in the portion of the brain essential for memory. The degree of **synaptic loss** correlates with impairment of memory functions.^{27,28}

To evaluate the impact in old animals, one group received *magnesium L-threonate* while an unsupplemented group served as controls.

After one month, necropsy findings showed **synaptic density** was **67**% *higher* in the group **supplemented** with magnesium L-threonate. This study showed that even in old animals, *magnesium L-threonate* increased the *density* of synaptic components essential for youthful neurotransmitter release.²⁶

Human Findings

To further assess the effects of *magnesium L-threonate*, MIT researchers designed a **clinical trial** of older people with early **cognitive impairment**.

The study subjects had some impairment in their ability to plan, adapt, focus, and make decisions (executive functions).

These **human** study subjects supplemented with **magnesium L-threonate** or a **placebo** daily for 12 weeks.

At the beginning of the study, the participants averaged **57.8** years of age. Their **brain age** based on cognitive function, however, was **68.3** years old. By the end of the trial, those receiving *magnesium L-threonate* decreased their **brain age** a remarkable **nine years.**²⁹

Another **human** trial showed promising preliminary results in patients diagnosed with mild to moderate **dementia**. Even at this more advanced stage of cognitive decline, **magnesium L-threonate** led to improvements in **cognition** and **executive function**.³⁰

An open-label pilot study found that nearly half of adults with moderate <u>ADHD</u> (attention deficit hyperactivity disorder) who received <u>magnesium</u> **L-threonate** for up to 12 weeks displayed clinical improvements.³¹



Modern Recognition of Magnesium

Magnesium supplementation rates are surging *higher* in the United States and are projected to almost double from years 2021 to 2028.³²

This is happening as more consumers learn of its whole-body benefits and the National Institutes of Health statement that "magnesium is a nutrient that the body needs to stay healthy." 33

Life Extension® subscribers have been reading about magnesium for over 40 years and utilize a variety of magnesium supplements to guard their precious health.

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William Faloon, Co-Founder

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DIET and LIFESTYLE CHOICES CAN THWART BRAIN AGING

One of the most consistent findings in the published medical literature is the profound role of diet and lifestyle on dementia risk.

A study published in 2023 found that people who follow a Mediterranean diet reduce dementia risk by 23%...even in those genetically predisposed (APOe4 positive) to early-stage Alzheimer's.5

The "MIND" diet was created to identify the constituents of the Mediterranean and DASH diets that possess the greatest neuroprotective properties.

Ten brain-healthy food groups in the MIND diet are:34

- Green leafy vegetables
- Other vegetables

Nuts

Berries

Beans

· Whole grains

Fish

- Poultry
- Olive oil
- Wine (moderate drinking)

Consuming the above 10 healthy food groups conferred significant protection against Alzheimer's³⁴ and mild cognitive impairment. 5,34,35

The top five dangerous food groups are:34

- Red meats
- Butter and stick margarine
- Cheese
- · Pastries and sweets
- Fried/fast food

By reducing one's intake of the **five** brain-damaging foods, significant protection against Alzheimer's and mild cognitive impairment was conferred.34

This does not mean one can never consume any of the five bad food groups. Individuals can still follow a MIND diet if they reduce consumption of the following **brain-damaging** foods:

- Pastries and sweets to under five servings per week,
- Red meat to under **four** servings per week,
- Cheese to under **one** serving per week,
- Butter or margarine to under one tablespoon per day, and
- Fried/fast foods to under **one** serving per week.

On a personal note, I don't find the above restrictions confining, and I don't think many readers of this magazine will either.

Researchers found that greater adherence to the MIND diet resulted in a markedly slower rate of counitive decline. Strict adherence to the MIND diet reduced Alzheimer's incidence by 53%.34

Even study subjects with "middle-of-the-road" compliance with the MIND diet, such as ingesting some of the constituents of a brain-healthy diet like berries, had their dementia risk reduced by 35%.34

These large risk reductions in response to **healthier eating** patterns represent game changers as it relates to reducing the numbers of Americans who would otherwise suffer agonizing dementia-related deaths. By adhering to healthy dietary patterns, your brain might be the equivalent of 7.5 years younger in biological age.34

The problem is that relatively few people can stick solely to healthy dietary patterns. The encouraging news is that it may not matter because just ingesting some of the constituents of the MIND diet was shown to confer considerable protection against neurodegenerative disease.36

The graphic at the top of this page highlights the multiple ways that aging humans can reduce their dementia risk.

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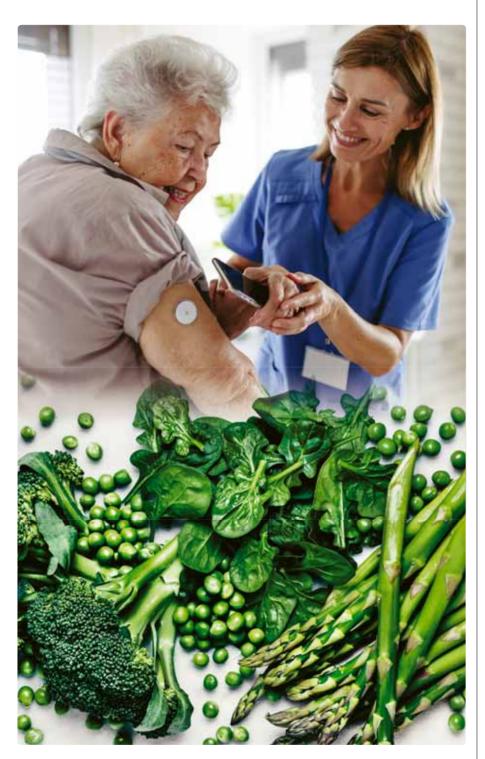
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In the News



More Vitamin K Intake Linked to Reduced Risk of Diabetes

Individuals with a high intake of vitamin K were found to have lower blood alucose and less insulin resistance, as well as a reduced risk of developing type II diabetes, according to a systematic review and metaanalysis.*

Meta-analysis of five observational studies examined the association between reported daily vitamin K intake and the development of type II diabetes among 105,798 participants. The researchers found a 21% lower risk of developing diabetes among those whose vitamin K intake was highest compared with those whose intake was lowest.

Meta-analysis of seven controlled trials compared the effects of treatment with vitamin K1 or K2 to a placebo or multivitamin formula that did not contain vitamin K. The decline in glucose from levels measured at the beginning of the trials was significantly greater at the end of the trials among diabetics who received vitamin K in comparison with those who did not receive it.

Editor's Note: A significant reduction was also found in insulin resistance among participants who received vitamin K2 compared with the control group.

* Food Funct. 2023 Oct 2;14(19):8951-8963.

Thiamine (Vitamin B1) May Improve Heart Attack Survival Rate

Heart attack patients admitted to an intensive care unit frequently suffer from thiamine insufficiency. Those given thiamine (vitamin B1) had a lower risk of dying in the hospital, as well as a lower mortality risk after 30 and 90 days, a retrospective, observational study showed.*

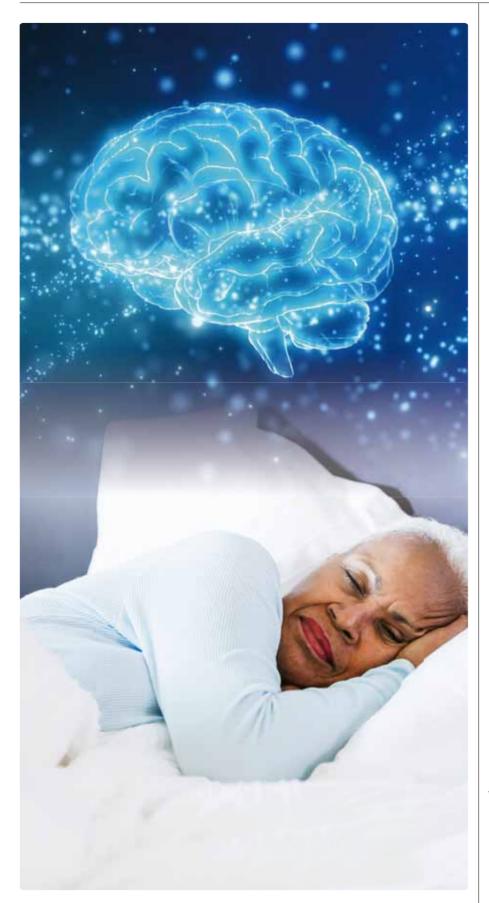
The study included 1,782 men and women who were admitted to an intensive care unit for a heart attack for at least 48 hours. One hundred seventy patients were given thiamine, while the other 1,612 were not.

Patients who were given thiamine had a 39.5% lower adjusted risk of in-hospital mortality than those who did not receive the vitamin. The thiamine group also had a 30-day adjusted mortality risk that was 38.2% lower and a 90-day mortality risk that was 37.4% lower than those who did not receive the vitamin.

Editor's Note: "Thiamine deficiency may aggravate endothelial dysfunction and chronic vascular inflammation, resulting in the loss of arterial vascular resistance that eventually develops into CVD [cardiovascular disease]. Therefore, thiamine supplementation may provide an unexpected benefit to the prognosis and outcome in patients with CVD," the authors stated.

* Front Nutr. 2023 Aug 29;10:1227974.





Less Slow-Wave Sleep Increases Risk of Dementia

Lack of slow-wave sleep over time can increase the risk of dementia. according to a study published in JAMA Neurology.*

Slow-wave sleep is a phase of deep, restorative sleep in which the body facilitates removal of potentially harmful substances from the brain, such as beta amyloid plaque.

This study included 346 people averaging 69 years old who had participated in the Framingham Heart Study and had completed two overnight sleep studies. The researchers tracked the risk of developing dementia for up to 17 years after the two sleep studies.

First, the researchers found that aging itself was associated with a decline in slow-wave sleep, which accelerated from age 60 to age 80.

Then, they determined that for each percentage decrease in slow-wave sleep per year, there was a 27% increased risk of all-cause dementia. and a 32% increased risk of Alzheimer's dementia.

Editor's note: The researchers found that individuals who experienced declines in slow-wave sleep were more likely to have heart disease, to take medications that impact sleep, and to carry the APOE4 gene that increases Alzheimer's risk.

* JAMA Neurol. 2023; 10.1001/jamaneurol.2023. 3889.

Higher DHA Levels Associated with Lower Risk of Age-Related Hearing Loss

Higher plasma levels of the omega-3 fatty acid DHA (docosahexaenoic acid) have been linked to a lower risk of hearing loss in middle-aged and older adults, according to research presented at NUTRITION 2023, the annual meeting of the American Society for Nutrition.*

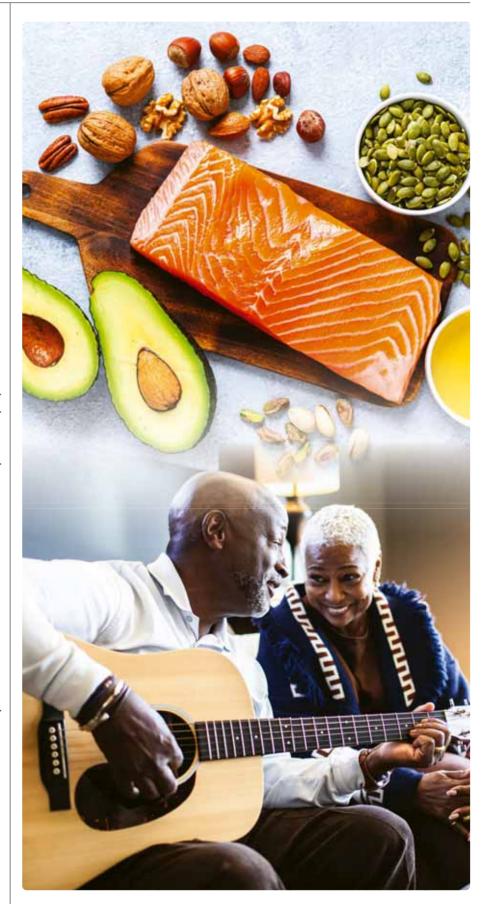
Researchers evaluated data from participants in the UK Biobank, which included men and women between the ages of 40 and 69 from 2007 to 2010. Information was available from 115,303 participants concerning whether they had difficulty hearing, from 113,134 respondents concerning if they had difficulty following a conversation if there is background noise, and from 71,368 regarding hearing-aid use.

Individuals whose plasma DHA was among the top 20% of individuals in the study had an 8% to 20% lower risk of reporting hearing issues than those whose DHA was among the lowest 20%.

People in the top **20**% of blood DHA levels were **16**% less likely to answer 'yes' to the question 'do you have difficulty hearing?' compared with those in the lowest **20**% of DHA levels.

Editor's Note: Plasma DHA was assessed as the percentage of total plasma fatty acids.

* https://nutrition.org/upping-your-intake-ofomega-3s-may-help-protect-your-hearing/







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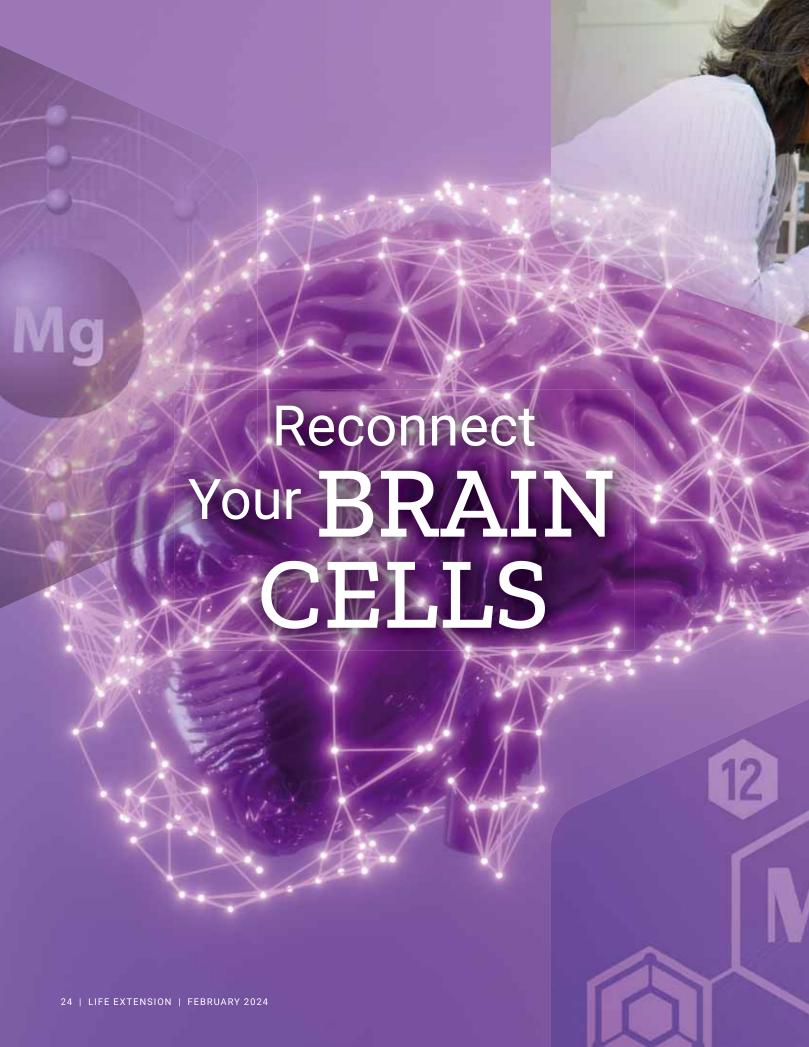
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who took magnesium L-threonate had a reversal in

measures of **brain age** of more than **nine years**. 13

Magnesium's Brain Impact

The mineral **magnesium** works throughout the body as a cofactor required for normal functioning of hundreds of enzymes. 15,16

Magnesium's role in the **brain** is especially critical. It protects **synapses**, the communication connection points between brain cells.10

In order to learn, or access memory, the brain's synapses require plasticity, the ability to adapt and change in response to stimuli.17

Decreased synaptic plasticity is a major contributor to cognitive decline in older adults.1

Animal studies show that increasing brain levels of magnesium:7,8,10-12,18

- Increases the total number of synapses,
- Improves synaptic plasticity,
- Stimulates the growth of new brain cells,
- Improves learning and memory.

Reaching the Brain

The majority of the U.S population are not getting enough magnesium in their diet.¹⁹ And very little magnesium from supplements enters the brain.8,20

A clinical study found that increasing blood magnesium levels by approximately 160% changed magnesium levels in cerebrospinal fluid by only 15%.21

As a result, taking standard oral magnesium provides bodily benefits but may not significantly improve brain function.8

There is a way around this problem. Researchers developed a specific form of magnesium that elevates levels of magnesium in the brain of rodents.8,10 It is called magnesium L-threonate (MgT).

In a rodent study, MgT raised cerebrospinal fluid levels of magnesium by approximately 15% and successfully increased synaptic density, an effect also observed in a separate cell culture study.7

Improving Memory

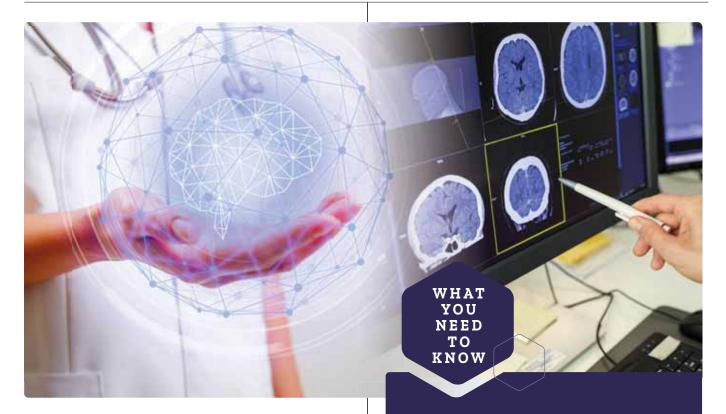
In this study, the effect on rodents' cognitive ability was dramatic.

Aged rats given magnesium L-threonate had enhanced learning ability, with improvements in shortterm and long-term memory.8

Magnesium L-threonate was also tested in two studies utilizing a mouse model of Alzheimer's. In both studies, it prevented the loss of synapses associated with the disease and maintained or improved memory. 10,12

Another mouse study showed that magnesium L-threonate stimulated growth of new brain cells in brain areas central to memory and learning. Growth of these cells typically slows or stops in older animals, but magnesium L-threonate restricted this decline. 18





Human Trial

To test the cognitive benefits of magnesium L-threonate in humans, scientists conducted a randomized, placebo-controlled trial.13

Volunteers aged 50-70 years old were given either a placebo or 1,500-2,000 mg of magnesium L-threonate (depending on body weight) daily for 12 weeks. The participants all had some impairment in executive functioning, the ability to plan, adapt, focus, and make decisions.

Compared to placebo subjects, those receiving magnesium L-threonate showed improved cognitive abilities after six weeks.

A further 20% improvement from baseline was observed after 12 weeks¹³ including significantly increased performance speed for executive function and cognitive processing.

The treatment group's composite scores for all tests combined increased significantly compared to their baseline scores and compared to the placebo group's scores at weeks six and twelve.13

All subjects were assigned a "brain age" by comparing their cognition test scores with normal scores for people the same age. At the start of the trial, the participants' chronological ages averaged 57.8 years. Their brain ages averaged a much older 68.3 years. 13

Magnesium L-Threonate Takes Years Off Your Brain Age

- Magnesium helps prevent brain aging and the loss of synapses seen with cognitive decline.
- In animal studies, magnesium L-threonate crossed the bloodbrain barrier and boosted brain magnesium levels to a vastly greater degree than other forms.
- In animal models and human trials, magnesium L-threonate improved cognitive function. In one human study, it reversed cognitive measures of **brain age** by a remarkable nine years.

After six weeks, those who took magnesium L-threonate had improved their brain age by an astounding *nine years* and by the end of the study the number was further improved to 9.4 years.13

Overall, taking magnesium L-threonate:13

- Improved memory and executive function,
- Improved cognitive abilities and speed,
- Reduced fluctuations in cognitive function (cognitive function being worse on some days than others is an early warning sign of mild cognitive impairment), and
- Reversed measures of brain age.

These improvements are consistent with the greater synaptic density and plasticity shown in preclinical studies of magnesium L-threonate. 5,10,12,14,18,22

In another clinical study, scientists tested magnesium L-threonate in patients with mild to moderate dementia. Even at this more advanced stage of cognitive decline, magnesium L-threonate led to improvements in cognition and executive function.23

Whether taken in a capsule, powder, or gummy form, magnesium L-threonate shows potential to delay or reverse some measured aspects of brain aging.

Potential ADHD Benefits

Based on magnesium L-threonate's brain benefits, researchers wondered whether it could also improve *neuropsychiatric* conditions.

In a pilot study, they gave magnesium L-threonate to 15 adults with moderate **ADHD** (attention deficit hyperactivity disorder) for up to 12 weeks.24



Summary

Magnesium supports youthful brain function, and it is needed for functioning of brain synapses, vital for complex tasks such as learning and memory.

Unlike other forms magnesium L-threonate increased brain levels in animals a significant amount.

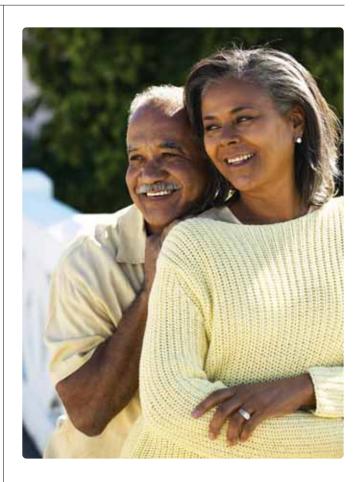
This enables it to boost synaptic density and plasticity.

A clinical study found that magnesium L-threonate reversed measures of brain age in people by nine vears.

If you have any questions on the scientific content of this article, please call a Life Extension Wellness Specialist at 1-866-864-3027.

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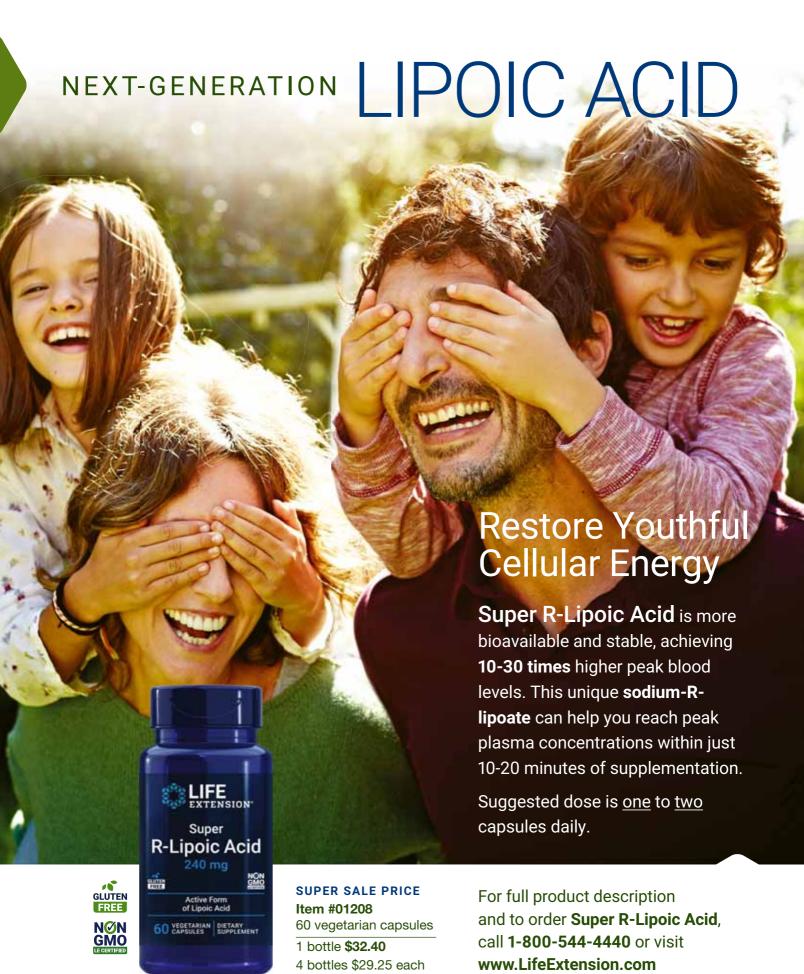
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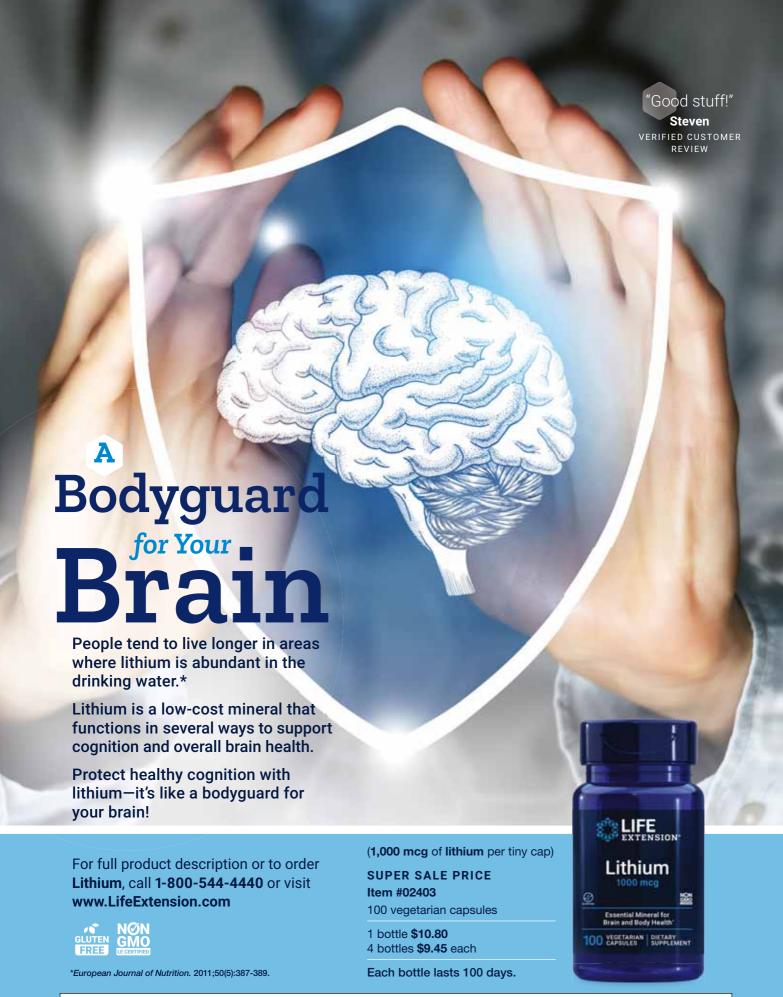
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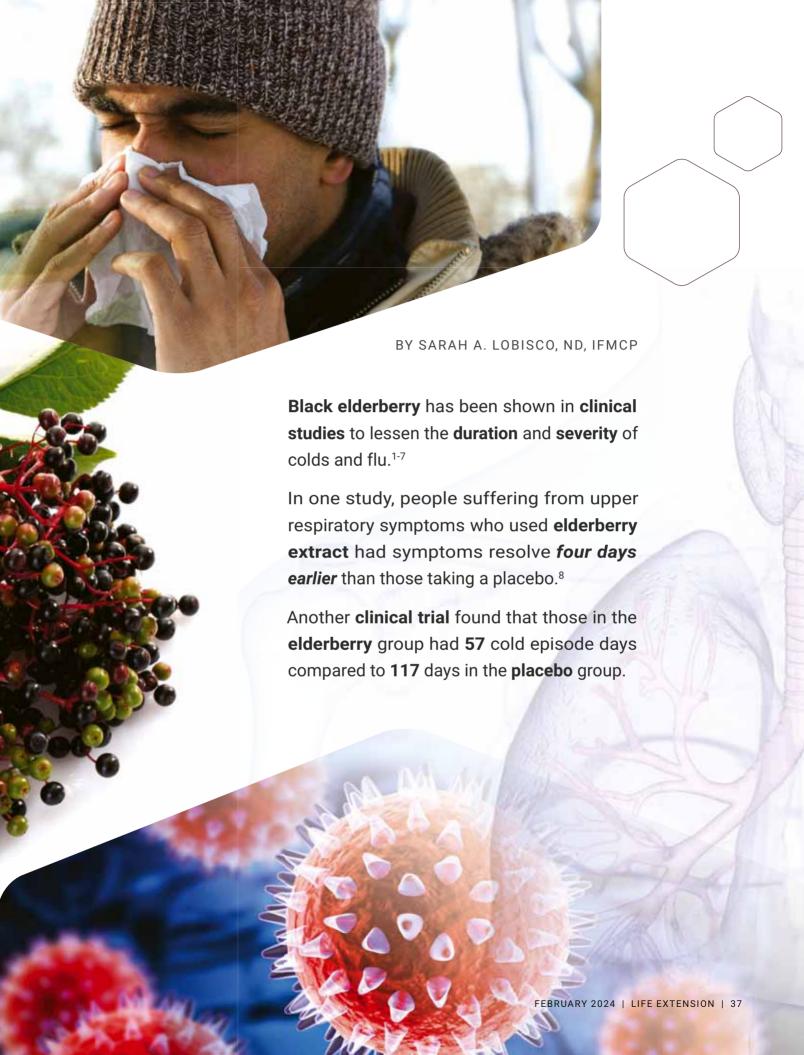






* Not a low-calorie food





tract infections. 1-7

Risks of Cold and Flu

Most adults have two to three colds a year. Symptoms typically last seven to 10 days but can linger for up to two weeks.9,10

Every year, as much as 20% of the U.S. population will contract the flu. 11,12 Hundreds of thousands of Americans are hospitalized and up to 52,000 flu-related deaths occur.13

Antiviral medications (like Xofluza®) may speed recovery from the flu, when taken within 48 hours after flu symptoms begin,^{2,14} but they are not prescribed for colds.9 Flu viruses are constantly changing making them more resistant to the antiviral drugs. 15

That's where black elderberry comes in. An extract of this fruit has been shown to safely reduce the severity and speed the resolution of upper respiratory

Vital Immune Support

Black elderberries have historically been used for respiratory problems.^{2,4} Their extracts are used to stimulate immune function and reduce the impact of colds and flu.2-5,16

Elderberries contain plant pigments called flavonoids, including anthocyanins. Anthocyanins have immunomodulating, antioxidant, antiviral, and antiinflammatory effects.^{2,17} Standardized extracts of elderberries help preserve these active compounds, which are highly bioavailable (absorbable).17

Antiviral Effects

Extracts of elderberry and its flavonoids have demonstrated direct antiviral activity in cell cultures for both influenza A1,18 and B, the two main

types that infect people.4,8

In one lab study, elderberry extract was shown to inhibit H1N1 (subtype of human influenza A). This study showed this virulent "swine flu" H1N1 virus was prevented from entering host cells in a dose dependent manner.

The highest elderberry doses were capable of blocking almost 100% of cells from infection. This compared favorably to the anti-influenza

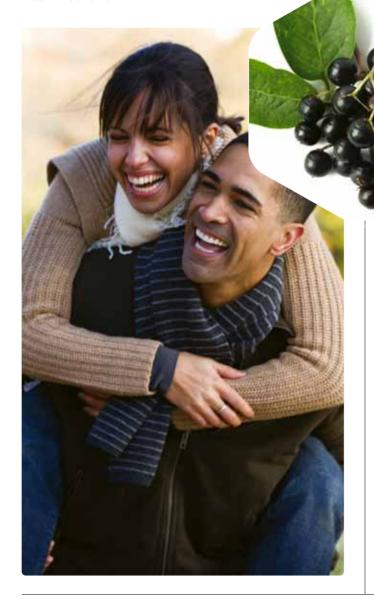
activities of the common antivirals oseltamivir (Tamiflu®) and amantadine.18

Another cell study suggests antiviral mechanism of elderberry by blocking the function of viral glycoproteins (proteins on the surfaces of viruses that aid infection) from attaching to host cells. Isolated anthocyanins also blocked viral infectivity.1

In a dual, cell and animal trial, elderberry juice concentrate containing a high flavonoid content was shown to enhance immunity and display antiviral activity. In the cell study, the elderberry interfered with early stages of viral replication, viral attachment, and penetration into host cells.19

When the elderberry juice was given to rodents infected with human flu, it led to an increase in antibodies that specifically attacked and eliminated the virus.19

It also stimulated the production of secretory IgA, an antibody that provides mucosal support against viral and bacterial infections. By contrast, mice taking a placebo or antiviral oseltamivir (Tamiflu®) showed a suppression of antibodies.19



Elderberry Helps the Body Battle Colds and Flu

- The average adult has two to three colds per year. Up to 20% of Americans contract the flu annually. The elderly and immune-compromised are at risk for severe complications.
- Elderberries contain anthocyanins, compounds that have immunomodulating, antiviral, antibacterial, and anti-inflammatory properties.
- Black elderberry extract has been shown to fight viruses and bolster immune defenses.
- In clinical trials, elderberry extract safely decreased the duration and severity of colds and flu, resolving upper respiratory symptoms up to four days earlier than a placebo.

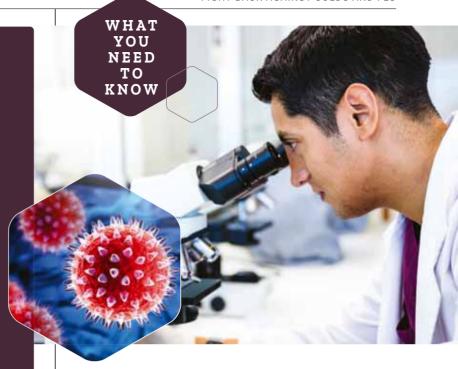
Treating Colds and Flu (Human Trials)

Human studies have validated the ability of elderberry to speed recovery and decrease the intensity of symptoms in colds and influenza.

One placebo-controlled clinical trial with 312 subjects assessed the impact of elderberry on cold duration, severity, and incidents during overseas air travel. Those in the treatment group took 600 mg of black elderberry extract for several days before travel and 900 mg daily during their trip.5

Overall, those in the elderberry group had a total of 57 cold episode days compared to 117 days in the placebo group. The elderberry group also experienced less than half the symptom severity of the placebo group.

This means individuals who took elderberry had less severe cold symptoms and recovered about two days faster.



In another study of people suffering from flu-like symptoms, those who used elderberry daily for five days had their symptoms resolve four days earlier than those taking a placebo.8

Systematic reviews provide further evidence for elderberry as a remedy for colds and influenza:

- One meta-analysis found that standardized forms of elderberry were effective at reducing severity and duration of both cold and flu, regardless of vaccination status.2
- A review of elderberry and elderflower (which comes from the same plant) found that they increased antibodies to influenza and decreased the intensity and duration of symptoms.6
- In a 2021 review, elderberry was found to support the immune system without overstimulating it. One trial found that an elderberry-containing product lowered risk of influenza complications and adverse events when compared to oseltamivir.4
- A meta-analysis of clinical trials showed that when black elderberry was taken within 48 hours of the onset of an acute respiratory infection, common symptoms such as fever, headache, and congestion were reduced by an average of 50% in as little as two days.3

Many studies report that doses of **600-900 mg** daily were most effective during acute viral infections, while lower doses are sufficient for preventative support.^{4-6,18,19}

Summary

When winter respiratory illnesses hit, flavonoid-rich **elderberr**y can help people feel better faster while bolstering their immune response.

Clinical studies show that elderberry extract can decrease the <u>severity</u> and <u>duration</u> of **colds** and **flu**, especially when taken at the first sign of symptoms. •

If you have any questions on the scientific content of this article, please call a **Life Extension** Wellness Specialist at 1-866-864-3027.

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What generated so much enthusiasm was the ability of **Life Extension® Mix™ Powder** to deliver a wide range of *higher*-potency **nutrients** at a far <u>lower</u> price than taking them individually.

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Life Extension® Mix™ Powder contains the vitamins and minerals found in multi-nutrient tablets, but at higher concentrations and more effective <u>forms</u> when warranted.

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For those seeking to ensure daily intake of healthy fruits and vegetables, along with the higher potencies + better forms of vitamins and minerals, Life Extension® Mix® Powder delivers all this in a comprehensive, convenient, and cost-effective manner.

Life Extension® Mix™ Powder can be combined with smoothies, fruit-vegetable juices, or consumed by itself in water. View the entire Life Extension® Mix™ Powder formula on the next page.



600 mg	Pomegranate Extract	85 mg
525 mg	Cherry Extract	85 mg
325 mg	Grape Extract (seed & fruit)	50 mg
200 mg	Bilberry Extract	30 mg
150 mg	Olive Fruit Extract	12.5 mg
	525 mg 325 mg 200 mg	525 mg Cherry Extract 325 mg Grape Extract (seed & fruit) 200 mg Bilberry Extract



Complete LIFE EXTENSION® MIX™ POWDER Formula

Vitamin C (as calcium ascorbate, ascorbic acid, ascorbyl palmitate, magnesium ascorbate, niacinamide ascorbate, acerola e	extract) 970 mg
Vitamin D3 (as cholecalciferol) (2,000 IU) 50 mcg	2,000 IU
Vitamin A (as beta-carotene, acetate) 1,500 mcg	5,000 IU
Thiamine (vitamin B1) (as thiamine HCI)	125 mg
Riboflavin (vitamin B2) (as riboflavin, riboflavin 5'-phosphate)	50 mg
Niacin (as 61% niacinamide, 38% niacin, 1% niacinamide ascorbate)	190 mg•
Vitamin B6 [as pyridoxal 5'-phosphate (100 mg), pyridoxine HCl (5 mg)]	105 mg
Folate (as L-5-methyltetrahydrofolate calcium salt)	680 mcg°
Vitamin B12 (as methylcobalamin)	600 mcg
Biotin	3000 mcg
Pantothenic acid (as D-calcium pantothenate with 5 mg pantethine)	600 mg
Vitamin E (as D-alpha tocopheryl succinate, D-alpha tocopherol)	67 mg
Magnesium (as magnesium oxide, citrate, arginate, glycinate, taurinate, ascorbate)	420 mg
Selenium [as sodium selenite, SelenoExcell®4 high selenium yeast, Se-methyl L-selenocysteine]	200 mcg
Zinc (as zinc citrate, L-OptiZinc®3 zinc mono-L-methionine sulfate)	35 mg
Calcium (as Ca ascorbate, D-calcium pantothenate, dicalcium phosphate)	140 mg
lodine (as potassium iodide)	150 mcg
Copper [as copper bisglycinate chelate]	1 mg
Manganese (as manganese citrate, gluconate)	1 mg
Chromium [as Crominex®5 3+ chromium stabilized with Capros® amla extract (fruit), PrimaVie® Shilajit]	500 mcg
Molybdenum (as molybdenum amino acid chelate)	125 mcg
Potassium (as potassium citrate)	35 mg
N-acetyl-L-cysteine (NAC)	600 mg
Taurine	200 mg
Broccoli concentrate blend [broccoli powder, extract (sprout, floret, seed) (providing glucosinolates, sulforaphane)]	525 mg
Green tea extract (leaf-decaffeinated) [std. to 45% epigallocatechin gallate (EGCG)]	325 mg
Acerola extract 4:1 (berry)	300 mg
Inositol	250 mg
Bitter orange citrus bioflavonoids (peel, fruit) [std. to 50% hesperidin]	200 mg
Fruit/berry proprietary blend [European elder, blackberry, blueberry, sweet cherry, cranberry, plum, persimmon (<i>Diospyros kaki</i>) po	
Wild blueberry anthocyanin extract (fruit)	150 mg
Sensoril®11 Ashwagandha extract (root, leaf) [std. to 32% oligosaccharides, 10% glycoside conjugates]	125 mg
Silymarin [from milk thistle extract (seed)]	100 mg
Trimethylglycine (TMG) (as betaine anhydrous)	
CherryPure®1 sour cherry (tart cherry) proanthocyanidin powder (skin)	100 mg 85 mg
POMELLA® pomegranate extract (fruit) [std. to 30% punicalagins] Natural mixed tocopherols (providing gamma, delta, alpha, beta tocopherols)	85 mg
	60 mg
MirtoSelect®11 bilberry extract (fruit)	30 mg
BioVin®7 grape proanthocyanidin extract (whole grape)	25 mg
Leucoselect® grape seed proanthocyanidin extract	25 mg
Bio-Quercetin Proprietary Blend providing 35% quercetin (5 mg) [from Japanese sophora concentrate (flower bud)], 30% galactomannans (4 mg) [from fenugreek (seed) 14 mg	15 mg
Bromelain [from pineapple (stem)] (2400 gelatin digestive units/gram)	
Lutein [from marigold extract (<i>Tagetes erecta</i>) (flower)] (providing 465 mcg <i>trans-</i> zeaxanthin)	15 mg 15 mg
Olive extract (fruit) (providing polyphenols, hydroxytyrosol, tyrosol, oleuropein)	
	12.5 mg
Sesame seed lignan extract	10 mg
Luteolin [from Japanese sophora (flower bud)]	8 mg
Apigenin Paren (so beren emine soid shelete)	5 mg
Boron (as boron amino acid chelate)	3 mg
Lycopene [from LycoBeads® natural tomato extract (fruit)]	3 mg
Delphinidins [from Delphinol®2 maqui berry (Aristotelia chilensis) extract (fruit)]	2 mg
Cyanidin-3-glucoside (C3G) [from black currant extract (fruit)]	1.25 mg

itching, rash, or gastric disturbances may occur. Liver function testing is recommended when niacin is taken in excess of 500 mg daily. Those with gout or liver diseases should avoid taking high doses of niacin. Consult with your doctor before using this product if you are taking anticoagulant medications. Individuals consuming more than 50 mcg (2,000 IU)/ day of vitamin D (from diet and supplements) should periodically obtain a serum 25-hydroxy vitamin D measurement. Vitamin D supplementation is not recommended for individuals with high blood calcium levels. Individuals with in-born errors of copper metabolism (e.g. Wilson's disease) should avoid daily, chronic use of this

Caution: Temporary flushing,





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Other ingredients: maltodextrin, natural orange flavor, stevia extract, silica, food starch-modified, luo han guo extract, sunflower lecithin, sunflower oil.

^RAE (retinol activity equivalents). °DFE (dietary folate equivalents). •NE (niacin equivalents).

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"Love this product, especially being a combo!"

Rhonda

VERIFIED CUSTOMER REVIEW











Fruit Extract Protects KIDNEYS in People with High URIC ACID

BY MARK FULTON

Uric acid is a waste product that is normally produced by the body in small amounts.

When uric acid blood levels get too *high*, this is associated with problems including **gout**, **kidney stones**, and certain types of kidney disorders.¹

Data from 2007–2016 show that roughly **20%** of U.S. adults had <u>elevated</u> **uric acid** levels, and about **4%** were diagnosed with **gout**.²

Up to two-thirds of people with **high** uric acid levels don't show any symptoms.³

Medications to lower uric acid levels come with potential **side effects**.³

Scientists have discovered that an extract of the fruit of the *Terminalia bellerica* tree can safely <u>reduce</u> elevated uric acid levels in **humans**.⁴

In a study of patients with **chronic kidney disease** and <u>elevated</u> **uric acid**, a dosage regimen of *Terminalia bellerica* extract <u>reduced</u> uric acid by nearly **20%** and improved markers of **kidney** health.⁵

In the same study, elevated **creatinine** levels, a marker of impaired kidney function, decreased by over **11.5%.**⁵

In a clinical study, *Terminalia bellerica* offered kidney protection for individuals with high **uric acid** levels.

Causes of Elevated Uric Acid

Uric acid is a normal product of metabolism.

In a healthy body, the small amount of uric acid that is produced is easily filtered by the kidneys and removed from the body in urine.

<u>High</u> levels of uric acid, called **hyperuricemia**, can lead to a painful arthritic condition known as **gout**.

Risk factors for gout include, high blood pressure and obesity, as well as excess intake of alcohol and certain foods (including organ meats, bacon, turkey, and sardines).³

Individuals with impaired **kidney function** are not able to properly filter waste products from the blood, and this results in buildup of those **waste products**. This includes uric acid. Even in people without kidney disease, kidney function wanes with age, so <u>less</u> **uric acid** is eliminated.⁶

Dangers of Hyperuricemia

Only about **4%** of the population suffers from **gout**, but at least **21%** of adults have high **uric acid** levels.²

Even asymptomatic hyperuricemia has been found to be significantly associated with risk of health-related issues including hypertension, chronic kidney disease, cardiovascular disease, and insulin resistance syndrome.⁷

Uric acid tends to **crystalize** when its concentration is too great. The formation of solid crystals in the joints between bones causes inflammation and pain, known as **gout**.

Crystals can also form in the urine, causing painful **kidney stones**.³

Reduce Uric Acid

High uric acid levels can lead to many other significant problems.

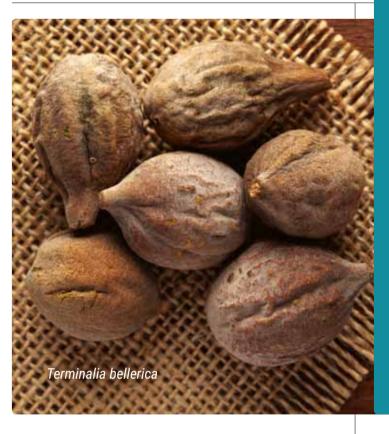
Long-term elevated uric acid can damage the linings of blood vessels and accelerate the development of cardiovascular disease.^{5,8,9}

It is also associated with metabolic diseases, including metabolic syndrome and type II diabetes.^{5,8,9}

A few medications help reduce uric acid, most notably allopurinol and febuxostat. However, they can lead to various side effects, including cardiovascular and liver abnormalities and even renal failure. Incredibly, some gout medicines can precipitate gout symptoms.¹⁰

Scientists investigating ways to <u>safely</u> reduce uric acid levels focused on *Terminalia bellerica*, a tree native to Southeast Asia. Its fruit has been used for centuries in Indian Ayurvedic medicine to promote overall health.





Reduce Uric Acid for Kidney Health

- Uric acid is a metabolic waste product. High blood levels of uric acid are common in adults and can cause painful gout and kidney stones.
- An extract of the fruit of the Terminalia bellerica tree safely and effectively reduced high uric acid levels in human studies.
- A clinical trial in patients with chronic kidney disease and elevated uric acid levels found that one dosage of Terminalia bellerica extract improved markers of kidney function, reducing **creatinine** levels by over 11.5% and improving the kidneys' blood-filtering activity.

Research suggested that bioactive compounds in the Terminalia bellerica fruit provide anti-inflammatory effects.11 This tannin-rich extract is believed to inhibit xanthine oxidase, an enzyme involved in the synthesis of uric acid.4

In a pilot study on patients without chronic kidney disease but with hyperuricemia,4 groups receiving Terminalia bellerica extract had a significant reduction in serum uric acid levels starting at four weeks. Levels continued to drop for 16 weeks, then stabilized at a lower level.

On average, those receiving 500 mg of Terminalia bellerica extract twice a day had a 28.4% uric acid reduction.

This reduced uric acid blood levels below 6 mg/dL, which is the therapeutic target doctors aim for in treating patients with gout.12

Terminalia bellerica may help prevent many different kinds of health problems caused by elevated uric acid.

Clinical Trial Shows Additional Benefits

After early studies showed Terminalia bellerica's ability to lower uric acid, scientists decided to evaluate whether it could help patients who had both chronic kidney disease and elevated uric acid.5

In a trial of patients with chronic kidney disease and elevated uric acid, participants were randomized to receive:

- the gout/uric acid medication febuxostat 40 mg, once daily, or
- two different dosages of Terminalia bellerica extract.

After 24 weeks, reduced uric acid and creatinine levels were seen in all the groups along with beneficial increases in renal filtration rate.

The fruit extract *lowered* uric acid levels starting at just four weeks in all participants.

The higher dosage of 1,000 mg twice a day lowered uric acid by almost 20% by the end of the 24-week treatment period.5

People with chronic kidney disease have compromised kidney function—meaning their kidneys have difficulty keeping up with regular housekeeping and clearing out waste. Reducing uric acid production may have lowered the kidney workload in trial participants.

This may explain in part why in this trial, Terminalia bellerica extract improved measures of kidney function.

In those taking 1,000 mg twice a day of Terminalia bellerica, creatinine levels decreased by over 11.5% by the end of the study. Creatinine is a widely used marker of kidney function.

Terminalia bellerica also significantly lowered CRP (C-reactive protein), a marker of systemic inflammation, and led to improvements in endothelial function, a sign of blood vessel health.13

The estimated glomerular filtration rate (eGFR), a measure of the blood-filtering capacity of the kidneys, increased, indicating a boost in kidney function.

These data sets indicate potential benefits for those with kidney disease and high uric acid levels.

Summary

Elevated levels of **uric acid** in the blood are common in adults and tend to worsen with age.

This can lead to **gout** and **kidney stones**. Uric acid elevations are also associated with chronic kidney disease and other long-term health problems.



Studies show that extracts of the fruit of the Terminalia bellerica tree can be effective at reducing uric acid levels in humans.

In patients with kidney disease and elevated uric acid, Terminalia bellerica was able to improve multiple markers of kidney function. •

If you have any questions on the scientific content of this article, please call a Life Extension Wellness Specialist at 1-866-864-3027.

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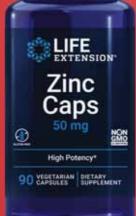
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	Olive Extract, Krill & Astaxanthin • 120 softgels	4 bottles	#) 	\$30.60 ea.	20%
	Heart & brain health, inflammation health support, advanced formula.				
01993	MacuGuard® Ocular Support with Saffron & Astaxanthin	1 bottle	\$32.25	\$29.03	10%
	60 softgels	4 bottles		\$26.10 ea.	19%
	Vision, macular & retinal health, eye fatigue, advanced formula.				
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	Three forms of selenium promote the body's	4 bottles		\$8.10 ea.	23%
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02407	Curcumin Elite™ Turmeric Extract • 60 vegetarian capsules	1 bottle	\$24.00	\$21.60	10%
	Patented turmeric extract provides 45x greater	4 bottles		\$19.80 ea.	18%
	free curcuminoid bioavailability.*				
02301	Senolytic Activator® • 36 vegetarian capsules (3-month supply)	1 bottle	\$19.50	\$17.55	10%
	Helps manage senescent cell burden. (Take 3 capsules <u>once</u> a week)	4 bottles		\$16.20 ea.	17%
01426	Super Ubiquinol CoQ10 with Enhanced Mitochondrial Support™	1 bottle	\$ 47.25	\$42.53	10%
	100 mg • 60 softgels • Superior ubiquinol form of CoQ10 plus	4 bottles	201	\$36.00 ea.	24%
	shilajit shown to enhance mitochondrial energy production.	6 bottles	-	\$33.30 ea.	30%
01727	Bone Restore Calcium Supplement with Vitamin K2 • 120 capsules	1 bottle	\$18.00	\$16.20	10%
	Skeletal-strengthening nutrients in one highly absorbable formula.	4 bottles		\$14.85 ea.	18%
01921	Uric Acid Control • 60 vegetarian capsules	1 bottle	\$18.00	\$16.20	10%
	Helps keep uric acid levels within a healthy range.	4 bottles	-	\$14.85 ea.	18%
02368	Optimized Broccoli with Myrosinase • 30 vegetarian capsules	1 bottle	\$28.50	\$25.65	10%
	Promotes cell & hormone health with bioavailable sulforaphane .	4 bottles	_	\$23.85 ea.	16%
02414	Bio-Fisetin™ • 30 vegetarian capsules	1 bottle	\$11.25	\$10.13	10%
	A highly absorbable form of the plant flavonoid fisetin	4 bottles		\$9.00 ea.	20%
	supports cell health in multiple ways.				
02004	Arterial Protect • 30 vegetarian capsules	1 bottle	\$33.00	\$29.70	10%
	Gotu kola & pine bark extract help stabilize plaque in the arteries.	4 bottles	+	\$26.10 ea.	21%
02500	Testosterone Elite • 30 vegetarian capsules	1 bottle	\$42.00	\$37.80	10%
	Promotes healthy testosterone production. [†]	4 bottles		\$33.75 ea.	20%
02125	FLORASSIST® GI with Phage Technology • 30 liquid	1 bottle	\$24.75	\$22.28	10%
	vegetarian capsules • Dual-encapsulation probiotic for optimal	4 bottles		\$20.25 ea.	18%
	delivery to help balance bacteria in the intestines.				
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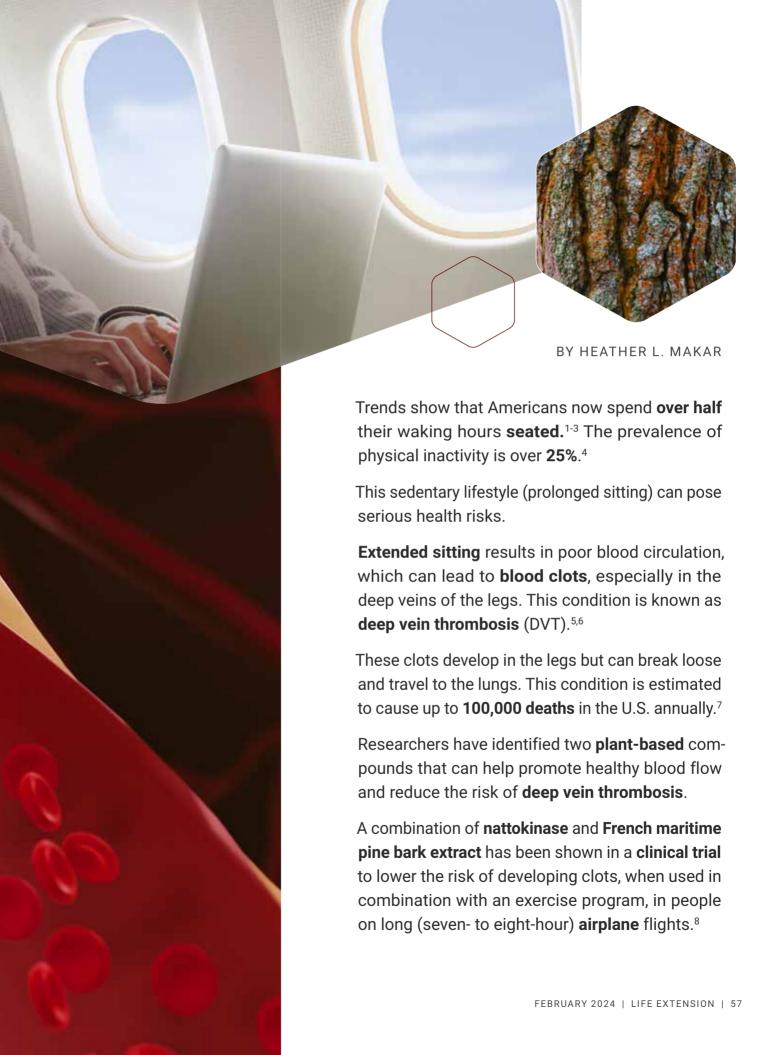
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The Risks of Prolonged Sitting

Sitting for extended periods can increase risk of deep vein thrombosis (DVT).9 Even those who exercise regularly may be at risk if they have other risk factors, including spending excessive time seated. 10

That's because sitting immobilizes the calf muscles, preventing them from contracting to transport deoxygenated blood back up to the heart. 11,12

This can reduce blood flow by up to two-thirds in the leas, leading to blood pooling in vessels. 13 This stagnant blood can then form a clot in the veins deep in the body.14

Symptoms may include swelling, pain, or warmth in the affected leg.

Air travel is a major risk factor for deep vein thrombosis. The risk of DVT persists for over two weeks after extended flights.15

Other risk factors for deep vein thrombosis include advanced age, pregnancy, bed rest after an injury or surgery, diabetes, hormonal imbalances, dehydration, obesity, and smoking.9,14,16

Those over 75 are at dramatically increased risk compared to those under 40 because of impaired clotting mechanisms.17

Scientists have identified two ingredients that can support healthier blood flow and inhibit venous blood clots: the enzyme nattokinase and an extract of French maritime pine bark. 18-20

Nattokinase Fights Clotting

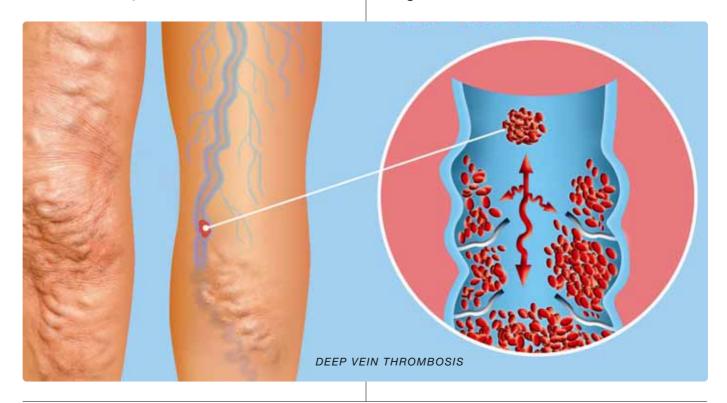
Natto, a traditional Japanese food contains an enzyme called nattokinase.19 Researchers found, two decades ago, that nattokinase is a more powerful anticlotting agent than 173 other foods tested.21

Nattokinase helps fight dangerous clots by:18,19,22-26

- Dissolving fibrin, the protein that binds clots together,
- Reducing activation of pro-clotting factors.
- Lowering the amount of fibrinogen, a protein that is converted into fibrin,
- Suppressing platelet accumulation to decrease clot formation, and
- Decreasing high blood pressure.

In a placebo-controlled study, these anti-clotting properties were detected in the blood samples of participants within two to five hours of taking a single dose of 2,000 fibrinolytic units of nattokinase.23

In another study of 153 adults who sought treatment for deep vein thrombosis or related vascular issues, all subjects were given either a daily dose of 2,000 fibrinolytic units of nattokinase after vascular surgery or a month-long course of an anticoagulant drug.





Nattokinase reduced deep vein thrombosis difficulties beyond the previous drug or surgery, leading to complete remission of remaining vascular symptoms. It worked without side effects such as internal bleeding, a common effect of anticoagulant drugs. 18,27,28

Maritime Pine Bark Protects Veins

French maritime pine bark extract contains compounds called procyanidins.29

Procyanidins offer anti-inflammatory and plateletmodulating benefits that help contribute to vascular protection.8,29-31

The extract also stimulates the synthesis of nitric oxide in the inner lining of blood vessels.²⁹ Nitric oxide is found in the endothelium (lining) of blood vessels that promotes vascular elasticity.32

In a preclinical screening of 13 polyphenol-rich plant extracts, only French maritime pine bark improved nitric oxide availability in both healthy and dysfunctional endothelial cells of veins.33

Those at risk of deep vein thrombosis often suffer from lower leg swelling, or edema.

Help Prevent Deep Vein Thrombosis

- Sitting for long periods can lead to deep vein thrombosis, which may cause a fatal pulmonary embolism.
- The enzyme nattokinase helps prevent this dangerous clotting.
- An extract of French maritime pine bark also prevents deep vein thrombosis and reduces leg swelling.
- In a clinical study, a combination of these ingredients prevented deep vein thrombosis and reduced ankle swelling in high-risk passengers on long flights.

Leg veins contain one-way valves which prevent blood from backflowing. These valves can become damaged, causing blood and fluids to remain in the lower legs, leading to swelling.34

Medical professionals frequently advise the use of compression socks or stockings to relieve this swelling. However, patients report multiple challenges with consistently using compression stockings, including difficulty putting them on, discomfort wearing them (especially in hot weather), and appearance.35

Research conducted over a 12-month period showed that French maritime pine bark extract was roughly as effective as compression stockings in reducing leg edema, and that the combination of the two was superior.36

Reducing Future DVT Risk

Roughly **one-third** of those who suffer from **deep vein thrombosis** are likely to have *another* episode within a decade, especially within the first year.¹⁶

In addition, **up to 50%** of those with DVT suffer from **post-thrombotic syndrome** as long-term sequelae. Symptoms include chronic leg discomfort, persistent swelling, skin discoloration, and heaviness of the affected limb.³⁷

In a study of 815 participants, each subject was tested twice a year for **six years** following their initial thrombosis. All subjects adhered to a **standard treatment** involving compression stockings, weight management, and regular exercise.

Some subjects also took either aspirin, prescription anticoagulants, or **200 mg** of French maritime **pine** bark extract.³⁸

The rate of a **deep vein thrombosis** <u>recurrence</u> or **post-thrombotic syndrome** was:

- 14.9% in those receiving only standard treatment,
- 12.9% in those taking aspirin,
- Between 6.7% and 10.7% in those taking anticoagulants, and
- Just 3.6% in those taking French maritime pine bark.

French maritime pine bark extract was by far the most effective way to prevent future clotting problems.

Powerful Combination

Combining **nattokinase** with **French maritime pine bark extract** offers significant protection against deep vein thrombosis.⁸

In a study of 204 **high-risk** passengers traveling long distances by air, half took **nattokinase** and **French maritime pine bark extract** two hours before their flight, with a second dose six hours later. The rest received placebos.⁸

While **5.4**% of the placebo group suffered flight-induced deep vein thrombosis, there were *no cases* in those taking the nattokinase-pine bark combination.⁸

Furthermore, the **placebo** group had a **12**% <u>increase</u> in lower **leg edema** (swelling) score, compared to a **15**% <u>reduction</u> in the treatment group.⁸

Together, these two ingredients relieved swelling and helped prevent thrombosis.8

Summary

Sitting too much greatly increases one's risk of a dangerous clotting condition, **deep vein thrombosis**.

Research has shown that the enzyme **nattokinase** and an extract of **French maritime pine bark** can reduce the risk of clotting and of deep vein thrombosis.

These compounds protect vein health by inhibiting blood clots and promoting healthy blood flow. •

If you have any questions on the scientific content of this article, please call a **Life Extension**Wellness Specialist at 1-866-864-3027.



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Olive branches are known as a symbol of peace, but the olive fruit could serve as a symbol of health and longevity.

Olives contain components that have been shown to contribute to brain,1 heart, and vascular health, cancer risk reduction, weight loss, increased longevity, and more.1-3

Olives contain the second-highest healthy fat content of any fruit. One cup of green olives contains about 21 grams of total fat,4 the majority of which is monounsaturated fat.

Studies show that consuming a diet high in monounsaturated fatty acids has beneficial effects on cardiovascular risk factors (particularly when substituted for saturated fat). These include:

- reduced LDL cholesterol,⁵
- decreased blood pressure,⁵
- decreased HbA1c,^{6,7} and
- improved insulin sensitivity.^{5,7}

As a result, higher dietary intake of monounsaturated fatty acids is associated with a lower risk of cardiovascular disease mortality and total mortality.3,8

Eating olives increases blood levels of glutathione,7 an antioxidant whose functions include repairing DNA, supporting immune function, and transporting mercury out of the brain.9

As an added benefit, olives are a **fermented food** that boosts the health of the microbiome and digestive system. Fermented foods provide antioxidant, antimicrobial, antifungal, anti-inflammatory, anti-diabetic, and anti-atherosclerotic activities.10

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* Biomed Pharmacother. 2016(3);78:50-9.

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* Int Angiol. 2014 Feb;33(1):20-6.

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- Targets longevity pathways²⁻⁶
- Extends lifespan of mice by about 10%⁷
- Removes senescent cells through senolytic action7
- Suppresses excess mTOR activation⁸

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A human trial showed bioavailability of this fisetin compound increased up to 25 times compared to fisetin by itself.9

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- Available at: https://www.ma Available at: https://www.mayo.edu/ research/clinical-trials/cls-20438802. Accessed June 22, 2020, Life Sci. 2018 Jan 15;193:171-9. Mini Rev Med Chem. 2018;18(13):1151-7. Nutr Res Pract. 2017 Oct;11(5):430-4. Biochem Biophys Res Commun. 2015 Nov 27;467(4):638-44. Int Immunopharmacol. 2017 Apr;45:135-47. EBioMadrica. 2018 Oct:36:18-28.

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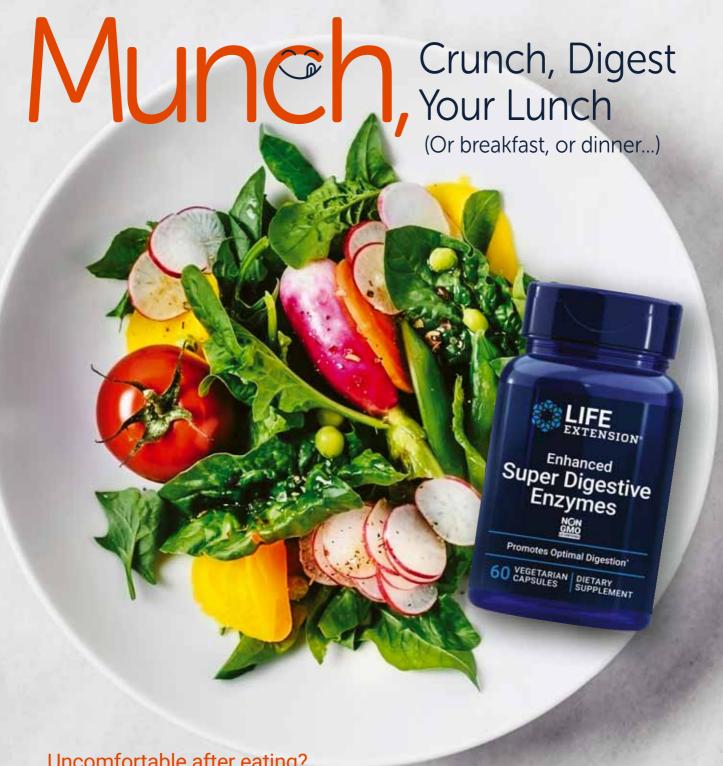






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* Curr Drug Metab. 2016;17(2):187-93.

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Vitamin C and Gum Disease

BY LAURIE MATHENA



Periodontitis is a gum infection that damages the soft tissue around teeth, leading to tooth loss.

It has been connected to an increased risk of cardiovascular and respiratory diseases, arthritis, premature births, and other serious conditions.^{1,2}

Diabetics are at a high risk for periodontitis.²

Nearly half of adults over age 30 have some form of periodontal disease, while in those over age 65 the prevalence rises to over 70%.3

gum disease have found the following:

 Vitamin C deficiency is a risk factor for periodontitis.4 In an observational study of patients with periodontitis, vitamin C levels were significantly lower in those with Stage IV periodontitis (the most severe stage, with the potential for loss of all teeth) as compared to the people with early stages of disease. This led researchers to conclude that vitamin C deficiency could increase risk of periodontitis.

- Higher vitamin C intake is associated with less plaque.5 Another observational study revealed that patients with periodontitis did not meet the recommended intake levels of vitamin C. However, the higher the intake of vitamin C, the lower the plaque index value (an assessment of the levels and rate of plaque formation on tooth surfaces). These results reinforce evidence that vitamin C could help protect against the onset of periodontal disease.
- Poor dietary intake of vitamin C and other nutrients increases risk of periodontal disease.6 A systematic review of research databases found that lower intake of vitamin C (as well as vitamin E, beta-carotene, and calcium) was associated with increased risk of periodontal disease in older adults.

 Smoking could increase periodontitis by reducing vitamin C levels.7 Smokers have a higher prevalence and severity of periodontal disease than nonsmokers. Smokers also require almost two-fold higher intake of vitamin C than nonsmokers to reach adequate vitamin C concentration.8 One study investigated the association between smoking and vitamin C levels and its impact on periodontal condition in older adults. The researchers found that subjects with the highest prevalence of periodontal issues had the lowest vitamin C levels; this may be influenced by smoking status.7

The above evidence suggests that vitamin C intake when used in conjunction with daily oral healthproper brushing and flossing—and regular periodontal checkups may help combat gum disease, reduce plaque, and support oral health. •



If you have any questions on the scientific content of this article, please call a Life Extension Wellness Specialist at 1-866-864-3027.

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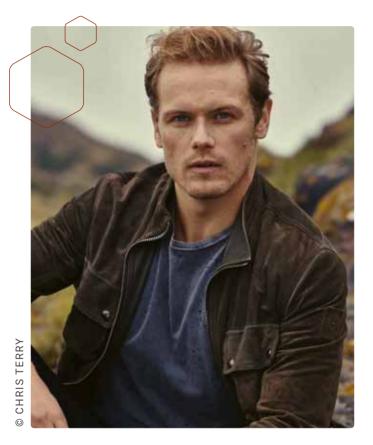






Outlander Star Sam Heughan: Global Ambassador for Wellness

BY LAURIE MATHENA



There are two things actor Sam Heughan takes very seriously: His acting and his health.

Heughan rose to fame in 2014 with his breakout role in the hit show, *Outlander*.

In this historical drama set in the 18th century, 43-year-old Heughan plays Scottish military man Jamie Fraser, a chiseled Highlander whose athletic physique is as much a part of his character as his thick Gaelic accent.

Throughout his years as a struggling actor, Heughan learned the value of using his physical attributes to bring a character to life, but he didn't always use healthy means to do so. In his autobiography, *Waypoints*, Heughan discusses how the pressures of conforming to physical expectations led to poor health choices and a low-level eating disorder.

He also shares his journey toward attaining a healthy, balanced lifestyle—and how he is helping thousands of people around the world do the same

Journey to a Healthy Lifestyle

Sam Heughan's dream was to become an actor. He pursued roles on the big screen and small screen, and he took nearly any part that came along—whether it was in a television commercial or on stage.

But despite more than a decade looking for his big break, Heughan often found himself scraping for money as a bartender or server, sleeping on friends' sofas or sharing apartments to save on rent, and sometimes, literally without a penny to his name.

During that time, he learned to use his six-foot-two frame to his advantage. He realized that if he looked the part during an audition, he'd be more likely to land the role.

This led him down a dark path, where he sometimes survived on salad and pickles to keep his calorie count low, or intentionally dehydrated himself to make his muscles look more defined.

"In hindsight, when I consider that time in my life, I recognize that I was living for a while with a low-level eating disorder," said Heughan in his memoir, *Waypoints*. "The requirement for an actor to look a certain way has driven me too far at times. I love training, but in my early years that led to a bad relationship with food."

Heughan didn't develop a healthy relationship with food until he became determined to become more muscular. "It forced me to start researching health and fitness, and that's when I recognized that the body needs a healthy, balanced diet to survive and grow. It was a vital lesson, and even now I sometimes have to remind myself that there can be no compromise."

He continues to exercise on a daily basis, and his workouts are tailored to his current role.

For example, when he is shooting *Outlander*, he focuses on functional strength training that balances strength and cardio.

His role as a villain in a superhero movie called *Bloodshot* required that he put on more muscle, so he ate more calories, lifted heavier weights, and cut back on cardio.

Regardless of how he tailors his workouts, his relationship with food is now healthier and more balanced. He says he has tried many kinds of diets, but in the end, he focuses on clean eating. This includes whole, natural foods, whole grains, fruit and vegetables, and no junk food.

He enjoys juicing, and his favorite blend includes carrot, mint, ginger, and lemon.

Heughan also adds targeted supplements to his routine, including vitamin C, vitamin D, glutathione, krill oil, and omegas.

"It's mainly to do with immunity boosting and generally giving me energy because the days are long and tiring both physically and mentally," said Heughan.

My Peak Challenge

For Heughan, there's more to life than acting.

"If I did nothing else with my life, I'd still feel like something was missing," said Heughan in *Waypoints*.

"I'm always looking for the next great challenge on the horizon. This has given rise to several projects far from film and television, including one dear to my heart that allows me to give something back."

Heughan is referring to My Peak Challenge, a nonprofit organization he co-founded along with his personal trainer, John Valbonesi. The organization is unique because it challenges people to set goals for themselves while raising funds for charity.

It began with Heughan's own personal goal of running two marathons in a one-month period. He broke the challenge down into manageable steps, and he raised over \$37,000 for cancer charities in the process.

"We all need a focus in life," said Heughan. "And by introducing targets we can begin to take steps towards achieving goals that might at first appear unreachable."

My Peak Challenge is now a global movement with a simple premise: Help yourself while helping others.

As part of the program, people start by setting a goal for themselves with the idea that challenge promotes personal growth. The challenge can be physical (like running a 5K) or not physical (like learning a new language).

The membership fee provides access to 12 months of fitness, yoga, and nutritional plans, along with training from professionals and coaches.

More significantly, 50% of the net membership fee goes directly to various charities. To date, the My Peak Challenge community has raised nearly \$7 million for its charity partners.

Funds raised through My Peak Challenge recently funded a clinical trial at the University of Oxford that is testing a new way to treat acute myeloid leukemia, an aggressive form of blood cancer.

Other causes have included fighting global hunger, supporting end-of-life care, and addressing environmental problems.

In 2022 alone, "Peakers" (as the members are called) raised enough money to plant 607,000 trees and cumulatively walked two billion steps.

The mission of My Peak Challenge echoes Heughan's own personal health philosophy: "Challenge yourself, and nothing is unattainable."

Waypoints

In 2021, Heughan accomplished yet another lofty goal: hiking a 96-mile trail through the Scottish Highlands called the West Highland Way.

The culmination of the hike included ascending Ben Nevis, the highest mountain in the British Isles.

Heughan details this challenging trek—and the lessons he learned along the way—in his charming memoir, *Waypoints*. Along with sharing details of this journey, he provides an intimate guide through the waypoints of his own personal life.

In reflecting on his hike along the West Highland Way, Heughan said, "For me, this journey has removed the noise and demands of everyday life to remind me that we're all just passing from one waypoint to the next. What matters is that we can look back at each stage knowing we made the most of it."

If you have any questions on the scientific content of this article, please call a **Life Extension** Wellness Specialist at 1-866-864-3027.

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1. Akay Internal Study. Liposomal hydrogel vitamin C pharmacokinetics. Data on file. 2021.

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01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules
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01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2 01476 Strontium Caps	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2 01476 Strontium Caps BRAIN HEALTH	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III 02323 Digital Eye Support
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2 01476 Strontium Caps BRAIN HEALTH 01524 Acetyl-L-Carnitine 01974 Acetyl-L-Carnitine Arginate 02419 B12 Elite	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III 02323 Digital Eye Support 01514 Eye Pressure Support with Mirtogenol®
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2 01476 Strontium Caps BRAIN HEALTH 01524 Acetyl-L-Carnitine 01974 Acetyl-L-Carnitine Arginate 02419 B12 Elite 02510 Brain Fog Relief	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III 02323 Digital Eye Support 01514 Eye Pressure Support with Mirtogenol® 01992 MacuGuard® Ocular Support with Saffron
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2 01476 Strontium Caps BRAIN HEALTH 01524 Acetyl-L-Carnitine 01974 Acetyl-L-Carnitine Arginate 02419 B12 Elite 02510 Brain Fog Relief 01659 CDP Choline	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III 02323 Digital Eye Support 01514 Eye Pressure Support with Mirtogenol® 01992 MacuGuard® Ocular Support with
O1824 Advanced Olive Leaf Vascular Support O2004 Arterial Protect O2497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support O2320 NitroVasc™ Boost O1953 Pomegranate Complete O0956 Pomegranate Fruit Extract O2024 Triple Action Blood Pressure AM/PM O2102 VenoFlow™ BONE HEALTH O1726 Bone Restore Calcium Supplement O2123 Bone Restore Calcium Supplement Chewable Tablet O2416 Bone Restore Elite with Super Potent K2 O1727 Bone Restore Calcium Supplement w/ Vitamin K2 O1725 Bone Strength Collagen Formula O1963 Calcium Citrate with Vitamin D O1506C Dr. Strum's Intensive Bone Formula O2417 Mega Vitamin K2 O1476 Strontium Caps BRAIN HEALTH O1524 Acetyl-L-Carnitine O1974 Acetyl-L-Carnitine Arginate O2419 B12 Elite O2510 Brain Fog Relief O1659 CDP Choline O2321 Cognitex® Alpha GPC	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III 02323 Digital Eye Support 01514 Eye Pressure Support with Mirtogenol® 01992 MacuGuard® Ocular Support with Saffron 01993 MacuGuard® Ocular Support with Saffron & Astaxanthin
01824 Advanced Olive Leaf Vascular Support 02004 Arterial Protect 02497 Endothelial Defense™ Pomegranate Plus 56885 Natto Activ Cardiovascular & Respiratory Support 02320 NitroVasc™ Boost 01953 Pomegranate Complete 00956 Pomegranate Fruit Extract 02024 Triple Action Blood Pressure AM/PM 02102 VenoFlow™ BONE HEALTH 01726 Bone Restore Calcium Supplement 02123 Bone Restore Calcium Supplement Chewable Tablet 02416 Bone Restore Elite with Super Potent K2 01727 Bone Restore Calcium Supplement w/ Vitamin K2 01725 Bone Strength Collagen Formula 01963 Calcium Citrate with Vitamin D 01506C Dr. Strum's Intensive Bone Formula 02417 Mega Vitamin K2 01476 Strontium Caps BRAIN HEALTH 01524 Acetyl-L-Carnitine 01974 Acetyl-L-Carnitine Arginate 02419 B12 Elite 02510 Brain Fog Relief 01659 CDP Choline	ENERGY MANAGEMENT 01628C Adrenal Energy Formula • 60 veg capsules 01630C Adrenal Energy Formula • 120 veg capsules 00972 D-Ribose Powder 01473 D-Ribose Tablets 01900 Energy Renew 01544 Forskolin 01805 Ginseng Energy Boost 01869 Mitochondrial Basics with PQQ 01868 Mitochondrial Energy Optimizer with PQQ 01904 NAD+ Cell Regenerator™ • 100 mg, 30 veg capsules 02344 NAD+ Cell Regenerator™ 300 mg, 30 veg capsules 02348 NAD+ Cell Regenerator™ and Resveratrol Elite™ 01500 PQQ Caps • 10 mg, 30 vegetarian capsules 01647 PQQ Caps • 20 mg, 30 vegetarian capsules 00889 Rhodiola Extract 02003 Thyroid Support Complex EYE HEALTH 01923 Astaxanthin with Phospholipids 00893 Brite Eyes III 02323 Digital Eye Support 01514 Eye Pressure Support with Mirtogenol® 01992 MacuGuard® Ocular Support with

FISH	OIL & OMEGAS	00607	DHEA • 25 mg, 100 vegetarian dissolve
01937	Mega EPA/DHA	01600	in mouth tablets
02218	Mega GLA Sesame Lignans	01689	DHEA • 100 mg, 60 veg capsules
01983	Super Omega-3 EPA/DHA Fish Oil,	02368	Optimized Broccoli and Cruciferous Blend
	Sesame Lignans & Olive Extract • 60 softgels	00302	Pregnenolone • 50 mg, 100 capsules
01988	Super Omega-3 Plus EPA/DHA Fish Oil,	01468	Pregnenolone • 100 mg, 100 capsules Triple Action Cruciferous Vegetable Extract
	Sesame Lignans, Olive Extract, Krill & Astaxanthin	01468	
01982	Super Omega-3 EPA/DHA Fish Oil,	01409	Triple Action Cruciferous Vegetable Extract and Resveratrol
0.4.0.0	Sesame Lignans & Olive Extract • 120 softgels		***************************************
01985	Super Omega-3 EPA/DHA Fish Oil, Sesame Lignans		UNE SUPPORT
01004	& Olive Extract • 60 enteric coated softgels	02302	Bio-Quercetin
01984	Super Omega-3 EPA/DHA Fish Oil, Sesame Lignans	02410	Black Elderberry + Vitamin C
01986	& Olive Extract • 120 enteric coated softgels Super Omega-3 EPA/DHA Fish Oil, Sesame Lignans	02433	Echinacea Elite
01900	& Olive Extract • 240 softgels	01961	Enhanced Zinc Lozenges
01812	Provinal® Purified Omega-7	01704	Immune Modulator with Tinofend®
01640	Vegetarian DHA	02425	Immune Packs with Vitamin C & D,
	-	00005	Zinc and Probiotic
F00[02005	Immune Senescence Protection Formula™
02008	California Estate Extra Virgin Olive Oil	01681	Lactoferrin (Apolactoferrin) Caps
02170	Rainforest Blend Decaf Ground Coffee	02426	Mushroom Immune with Beta Glucans
02169	Rainforest Blend Ground Coffee	01903	NK Cell Activator™
02171	Rainforest Blend Whole Bean Coffee	01394 01309	Optimized Garlic Optimized Quercetin
GLUC	COSE MANAGEMENT	01309	Peony Immune
01503	CinSulin® with InSea ² ® and Crominex® 3+	01708	Reishi Extract Mushroom Complex
01620	CoffeeGenic® Green Coffee Extract	01706	Standardized Cistanche
02122	Glycemic Guard™	01007	Ultra Soy Extract
00925	Mana Danfationsina	I	
00923	Mega Benfotiamine	01561	/inclozendes
01803	mega Benfottamine Tri Sugar Shield®	01561	Zinc Lozenges
01803	=	INFL	AMMATION HEALTH SUPPORT
01803 HEAF	Tri Sugar Shield® RT HEALTH	INFL 01639	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex®
01803 HEAF 01066	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated)	INFL	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™
01803 HEAF	Tri Sugar Shield® RT HEALTH	1NFL 01639 02324	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones
01803 HEAF 01066 01842	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™	01639 02324 01709	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil
01803 HEAF 01066 01842 01700	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps	01639 02324 01709 02310	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™
01803 HEAF 01066 01842 01700 02121	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist	01639 02324 01709	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract
01803 HEAF 01066 01842 01700 02121 02508	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites	01639 02324 01709 02310 02467	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules
01803 HEAF 01066 01842 01700 02121 02508 02018	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine	01639 02324 01709 02310	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract
01803 HEAF 01066 01842 01700 02121 02508 02018	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with	01639 02324 01709 02310 02467 02407	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels	01639 02324 01709 02310 02467	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10	01639 02324 01709 02310 02467 02407 01804	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951	Tri Sugar Shield® RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10	01639 02324 01709 02310 02467 02407 01804 02223	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels	01639 02324 01709 02310 02467 02407 01804 02223 56886	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex®
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437 01426	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite Fast-Acting Joint Formula
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437 01426 01431	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with PQQ	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238 02138 00965 02430	S-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite Fast-Acting Joint Formula Fast Acting Relief
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437 01426 01431 01733 01859	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with PQQ TMG Liquid Capsules	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238 02138 00965 02430 00522	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite Fast-Acting Joint Formula Fast Acting Relief Glucosamine/Chondroitin Capsules
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437 01426 01431 01733 01859 00349	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with PQQ TMG Liquid Capsules TMG Powder	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238 02438 00965 02430 00522 02420	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite Fast-Acting Joint Formula Fast Acting Relief Glucosamine/Chondroitin Capsules Glucosamine Sulfate
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437 01426 01431 01733 01859 00349 HORI	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with PQQ TMG Liquid Capsules TMG Powder MONE BALANCE	01639 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238 02438 00965 02430 00522 02420 02424 01600 00451	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite Fast-Acting Joint Formula Fast Acting Relief Glucosamine/Chondroitin Capsules Glucosamine Sulfate Joint Mobility Krill Healthy Joint Formula MSM (Methylsulfonylmethane)
01803 HEAF 01066 01842 01700 02121 02508 02018 01949 01951 01929 01427 01425 01437 01426 01431 01733 01859 00349	RT HEALTH Aspirin (Enteric Coated) BioActive Folate & Vitamin B12 Caps Cardio Peak™ Homocysteine Resist Omega-3 Fish Oil Gummy Bites Optimized Carnitine Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 50 mg, 60 softgels Super-Absorbable CoQ10 Ubiquinone with d-Limonene • 100 mg, 60 softgels Super Ubiquinol CoQ10 Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 50 mg, 100 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 100 mg, 60 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with Enh Mitochondrial Support™ • 200 mg, 30 softgels Super Ubiquinol CoQ10 with PQQ TMG Liquid Capsules TMG Powder	01709 02324 01709 02310 02467 02407 01804 02223 56886 01203 00407 JOIN 02404 02238 02438 02138 00965 02430 00522 02420 02424 01600	AMMATION HEALTH SUPPORT 5-LOX Inhibitor with AprèsFlex® Advanced Curcumin Elite™ Turmeric Extract, Ginger & Turmerones Black Cumin Seed Oil Black Cumin Seed Oil and Curcumin Elite™ Curcumin Elite™ Turmeric Extract 30 veg capsules Curcumin Elite™ Turmeric Extract 60 veg capsules Cytokine Suppress® with EGCG Pro-Resolving Mediators Restore Activ Joint Muscle & Tissue Specially-Coated Bromelain Super Bio-Curcumin® Turmeric Extract T SUPPORT Arthro-Immune Joint Support ArthroMax® Advanced NT2 Collagen™ & AprèsFlex® ArthroMax® Elite Fast-Acting Joint Formula Fast Acting Relief Glucosamine/Chondroitin Capsules Glucosamine Sulfate Joint Mobility Krill Healthy Joint Formula

00882 DHEA • 50 mg, 60 capsules

KIDNEY & BLADDER SUPPORT MINERALS 00862 Cran-Max® Cranberry Whole Fruit Concentrate 01661 Boron 01424 Optimized Cran-Max® 02107 Extend-Release Magnesium 01921 **Uric Acid Control** 01677 Iron Protein Plus 01209 Water-Soluble Pumpkin Seed Extract 02403 Lithium 01459 Magnesium Caps **LIVER HEALTH & DETOXIFICATION** 01682 Magnesium (Citrate) 01922 Advanced Milk Thistle • 60 softgels 01328 Only Trace Minerals 01925 Advanced Milk Thistle • 120 softgels 01504 Optimized Chromium with Crominex® 3+ 02240C Anti-Alcohol Complex 02309 Potassium with Extend-Release Magnesium 01651 Calcium D-Glucarate 01740 Sea-Iodine™ 01571 Chlorophyllin 01879 Se-Methyl L-Selenocysteine 02402 FLORASSIST® Liver Restore™ 01778 Super Selenium Complex 02521 Glutathione 00213 Vanadyl Sulfate 01541 Glutathione, Cysteine & C 01813 Zinc Caps 01393 HepatoPro **MISCELLANEOUS** 01608 Liver Efficiency Formula 01522 Milk Thistle • 60 veg capsules 00577 Potassium Iodide 01534 N-Acetyl-L-Cysteine **MOOD & STRESS MANAGEMENT** 01884 Silvmarin 02519 Ashwagandha Plus 02361 SOD Booster 02434 Calm-Mag **LONGEVITY & WELLNESS** 02312 Cortisol-Stress Balance 00457 Alpha-Lipoic Acid 00987 **Enhanced Stress Relief** 01625 **AppleWise** 01683 L-Theanine 02414 Bio-Fisetin™ 02175 SAMe (S-Adenosyl-Methionine) 01214 Blueberry Extract 200 mg, 30 enteric coated vegetarian tablets 01438 Blueberry Extract and Pomegranate 02176 SAMe (S-Adenosyl-Methionine) 02270 **DNA Protection Formula** 400 mg, 30 enteric coated vegetarian tablets 02431 Essential Youth - L-Ergothioneine 02174 SAMe (S-Adenosyl-Methionine) 02119 GEROPROTECT® Ageless Cell™ 400 mg, 60 enteric coated vegetarian tablets 02415 GEROPROTECT® Autophagy Renew 02429 Theanine XR[™] Stress Relief 02401 GEROPROTECT® Stem Cell **MULTIVITAMINS** 02211 **Grapeseed Extract** 02199 Children's Formula Life Extension Mix™ 00954 Mega Green Tea Extract (decaffeinated) 02354 Life Extension Mix[™] Capsules 00953 Mega Green Tea Extract (lightly caffeinated) 02364 Life Extension Mix[™] Capsules without Copper 01513 Optimized Fucoidan with Maritech® 926 02356 Life Extension Mix™ Powder 02230 Optimized Reservatrol Elite™ Life Extension Mix™ Tablets 02355 Pycnogenol® French Maritime Pine Bark Extract 01637 02357 Life Extension Mix™ Tablets with Extra Niacin 02210 Resveratrol Elite™ 02365 Life Extension Mix[™] Tablets without Copper 02301 Senolytic Activator® 02292 Once-Daily Health Booster • 30 softgels 01208 Super R-Lipoic Acid 02291 Once-Daily Health Booster • 60 softgels 01919 X-R Shield 02313 One-Per-Day Tablets **LUNG HEALTH** 02428 Plant-Based Multivitamin 02317 Two-Per-Day Capsules • 60 capsules 02512 Healthy Lungs 02314 Two-Per-Day Capsules • 120 capsules **MEN'S HEALTH** 02316 Two-Per-Day Tablets • 60 tablets 02209 Male Vascular Sexual Support 02315 Two-Per-Day Tablets • 120 tablets 00455 Mega Lycopene Extract **NERVE & COMFORT SUPPORT** 02306 Men's Bladder Control 02202 ComfortMAX[™] 02515 Men's Vitality Packs 02303 Discomfort Relief PalmettoGuard® Saw Palmetto and Beta-Sitosterol 01789 PERSONAL CARE 01790 PalmettoGuard® Saw Palmetto/Nettle Root Formula and Beta-Sitosterol 02322 Hair, Skin & Nails Collagen Plus Formula

01278

00408

Life Extension Toothpaste

Venotone

02304C Youthful Collagen

02252 Youthful Legs

01789 PalmettoGuard® Saw Palmetto and Beta-Sitosterol 01790 PalmettoGuard® Saw Palmetto/Nettle Root Formula and Beta-Sitosterol 01373 Prelox® Enhanced Sex for Men 01940 Super MiraForte with Standardized Lignans 02500 Testosterone Elite 01909 Triple Strength ProstaPollen™ 02029 Ultra Prostate Formula

PET (CARE	02075	Gamma E Mixed Tocopherol Enhanced with
01932	Cat Mix		Sesame Lignans
01931	Dog Mix	02070	Gamma E Mixed Tocopherol & Tocotrienols
02523	DOG Hip & Joints	01913	High Potency Optimized Folate
02524	DOG Multivitamin & Probiotics	01674	Inositol Caps
02522	DOG Skin & Coat	02244	Liquid Vitamin D3 • 50 mcg (2000 IU)
02525	DOG Stress & Behavior	02232	Liquid Vitamin D3 (Mint) • 50 mcg (2000 IU)
PROB	BIOTICS	01936	Low-Dose Vitamin K2
01622	Bifido GI Balance	00373	No Flush Niacin
01825	FLORASSIST® Balance	01939	Optimized Folate (L-Methylfolate)
01623	FLORASSIST® Daily Bowel Regularity	01217	Pyridoxal 5'-Phosphate Caps
02421	FLORASSIST® GI with Phage Technology	01400	Super Absorbable Tocotrienols
01821	FLORASSIST® Heart Health	02334	Super K
02250		01863	Super Vitamin E
	FLORASSIST® Mood Improve	02422	Vegan Vitamin D3
02208	FLORASSIST® Immune & Nasal Defense	02028	Vitamin B5 (Pantothenic Acid)
02120	FLORASSIST® Oral Hygiene	01535	Vitamin B6
02203	FLORASSIST® Prebiotic	00361	Vitamin B12 Methylcobalamin
02505	FLORASSIST® Probiotic Women's Health	01536	Vitamin B12 Methylcobalamin
SKIN	CARE		1 mg, 60 veg lozenges
02423	Daily Skin Defense	01537	Vitamin B12 Methylcobalamin
01938	Shade Factor™		5 mg, 60 veg lozenges
02129	Skin Care Collection Anti-Aging Serum	02228	Vitamin C and Bio-Quercetin®
02130	Skin Care Collection Day Cream		60 veg tablets
02131	Skin Care Collection Night Cream	02227	Vitamin C and Bio-Quercetin®
02096	Skin Restoring Ceramides		250 veg tablets
SLEE	D.	01753	Vitamin D3 • 25 mcg (1000 IU), 90 softgels
		01751	Vitamin D3 • 25 mcg (1000 IU), 250 softgels
01512	Bioactive Milk Peptides	01713	Vitamin D3 • 125 mcg (5000 IU), 60 softgels
02300	Circadian Sleep	01718	Vitamin D3 • 175 mcg (7000 IU), 60 softgels
01511	Enhanced Sleep without Melatonin	01758	Vitamin D3 with Sea-Iodine™
02234	Fast-Acting Liquid Melatonin	02040	Vitamins D and K with Sea-Iodine™
01669 02308	Glycine	WEIG	HT MANAGEMENT & BODY COMPOSITION
02306	Herbal Sleep PM L-Tryptophan	02479	7-Keto® DHEA Metabolite
01668	Melatonin • 300 mcg, 100 veg capsules		100 mg, 60 veg capsules
01083	Melatonin • 500 mcg, 200 veg capsules	02207	AMPK Metabolic Activator
00329	Melatonin • 1 mg, 60 capsules	02504	Body Trim and Appetite Control
02503	Melatonin • 3 mg, 60 gummies	02478	DHEA Complete
00330	Melatonin • 3 mg, 60 veg capsules	02506C	Mediterranean Weight Management
00330	Melatonin • 10 mg, 60 veg capsules	01432	Optimized Saffron
00331	Melatonin • 3 mg, 60 veg lozenges	02511	Thermo Weight Control
02201	Melatonin IR/XR	02509	Waistline Control™
01787	Melatonin 6 Hour Timed Release	WOM	EN'S HEALTH
01767	300 mcg, 100 veg tablets		
01788	Melatonin 6 Hour Timed Release	01942	Breast Health Formula
01700	750 mcg, 60 veg tablets	01626	Enhanced Sex for Women 50+
01721	Optimized Tryptophan Plus	01894	Estrogen for Women
01721	Quiet Sleep Melatonin • 5 mg, 60 veg capsules	02204	Menopause 731™
02502	Rest & Renew	02319	Prenatal Advantage
02502	Serene Sleep	01649	Soy Isoflavones
	·	02513	Women's Bladder Support
VITAI			
01533	Ascorbyl Palmitate		
00920	Benfotiamine with Thiamine		

01945

00102

00084

02229

Biotin

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Buffered Vitamin C Powder

Fast-C® and Bio-Quercetin®

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- · GREEN TEA that is rich in protective catechins
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- XYLITOL a natural sweetener that supports oral health3
- FOLIC ACID for healthier and more resilient gums4
- LACTOFERRIN to support healthy oral hygiene⁵
- SQUALANE derived from olives and rich in vitamin E
- FLOURIDE-FREE

- J Indian Soc Periodontol. 2011 Jul;15(3):205-9.
 Br J Dermatol. 2001 Oct;145(4):535-45.
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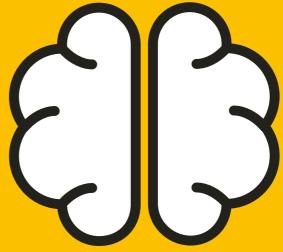
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200 mg CoQ10 SUPER SALE PRICE 100 mg CoQ10 + 10 mg PQQ

SUPER SALE PRICE Item #01426 • 100 mg, 60 softgels

Item #01431 • 200 mg, 30 softgels

SUPER SALE PRICE
Item #01733 • 100 mg, 30 softgels

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1 bottle **\$40.50**

1 bottle **\$34.43** 4 bottles \$27.90 each

4 bottles \$36 each

4 bottles \$34.65 each

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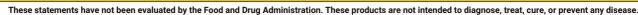


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IN THIS EDITION OF LIFE EXTENSION MAGAZINE®











7 SHARP DECLINE OF DEMENTIA PREVALENCE

New data show a **30%** *decline* in **dementia** prevalence. Well-documented methods can enable aging **humans** to preserve **neurological function**.

24 RECONNECT AGING BRAIN CELLS

MIT researchers developed a form of **magnesium** that was shown to reverse measures of **brain aging** and improve **synaptic density**.

36 FIGHT BACK AGAINST COLDS AND FLU

In clinical trials, **elderberry** extract significantly *resolved* cold/flu symptoms up to **four days** sooner compared to **placebo**.

46 PROTECT KIDNEY FUNCTION

Excess **uric acid** contributes to gout, kidney stones, and kidney disease. A **human** study showed a **plant extract** *lowered* **uric acid** blood levels by **28.4**% <u>and</u> improved measures of **kidney** health.

56 UNDO DAMAGE OF SITTING TOO MUCH

Americans spend half their time sitting, a major risk for deep vein thrombosis and blood clots. Clinical data show that two plant extracts can *reduce* leg swelling and prevent venous clots.

69 VITAMIN CAND GUM DISEASE

Gum disease is linked to stroke, diabetes, and more. New research demonstrates **vitamin C**'s ability to *decrease* the risk and severity of **gum disease**.

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