Eye health

Description

To: Jesus

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Eye Health

Night vision

Black currant & bilberry

Black currant & bilberry have anthocyanosides like cyanidin-3-glucoside (C3G) fault waterma Superfruit black currant supplies active C3G to support dark adaptation and ni

Yellow sunglasses

Wearing yellow undarkened sunglasses (blueblockers) block blue light & appear

Floaters

Floaters are dark outlines superimposed on what we see in our vision. They ma

What may help:

125 milligrams L-lysine

40 milligrams vitamin C

26.3 milligrams Vitis vinifera extract

5 milligrams zinc

100 milligrams Citrus aurantium

190 milligrams bromelain

95 milligrams papain

95 milligrams ficin

chrysanthemum tea

goji berries

mulberry leaves

acupressure- beginning of eyebrow (by nose), right & left side of eye, just ab

theepochtimes.com/health/floaters-symptoms-causes-treatments-and-natural-appro

Steroid injections directly into the eye may be 2x as effective against uveiti

What may cause macular degeneration-

Refined oils
Cooking polyunsaturated fat
Refined grains
Transfat
Refined sugars
NRG, heart disease, diabetes, obesity, lung cancer, copd, lung infections, ast
degeneration

youtube.com/watch?v=Y_09DnSGetE[/embedyt]

What May Help

Chris Knoppe

kale, spinach, avocados & egg yolks may have lutein & zeaxanthin for eyes beta carotene

default watermark

vitamin D3

coQ10

acetyl-L-carnitine

acetyl-L-carnosine

vitC

noni

acai

dry eyesspirulina

curcumin

vitA

VILA

vitD

GAMMA LINOLENIC ACID GLA

mucus specific anti-inflammatory

80% effective

statins appear to increase cataracts

pinkeye- boric acid in warm water, belladonna (homeopathic) worked better

contact lenses- peroxide kills blinding acanthamoeba parasite- never use tap w macular degeneration AMD

Contact lenses appear to contain 5,000 higher than safe levels PFAS (flouride) nationalworld.com/health/soft-contact-lenses-found-to-contain-toxic-forever-ch

 $800 \, \text{mg+/day}$ calcium $2 \, \text{x/}$ age related macular degeneration AMD http://www.lef.org/protocols/eye_ear/macular_degeneration_07.htm wet macular degeneration needs avastin

Age-related macular degeneration (AMD) impairs central vision, dry & wet type.

What may ghelp? Vitamin C L-carnosine drops vitamin E Hypertension

Wet AMD appears higher with high diastolic blood pressure

AMD appears higher when using thiazide diuretics

lutein, zeaxanthin, and meso-zeaxanthin carotenoid intake appears to reduce AM

Vitamin B complex (sustain release best) appears to reduce AMD

Nuts may help

Chicken may help

Anti-Vascular Endothelial Growth Factor (anti-VEGF) agents injected into the e

VEGF Trap-Eye may be as effective as Lucentis with half the injections

DMSO solution may bring the anti-VEGF agents into the eye without the possibil

Photodynamic therapy, also used in cancer therapy, treats wet AMD

Photodynamic Therapy (PDT) is a systemic treatment used in oncology by a varie specialists to eradicate premalignant and early-stage cancer and reduce the tuend-stage cancers. PDT involves three key components: a photosensitizer, light oxygen.

Photosensitizing agents are drugs that become active when light of a certain we directed onto the anatomical area where they are concentrated. It is an approximet macular degeneration, and is a more widely preferred treatment that takes certain unique properties of subretinal neovascular vessels.

Compared with normal blood vessels, neovascular tissue appears to retain the l medicine used in photodynamic therapy. After the medicine, verteporfin (Visudy example, has been injected into a peripheral vein, it can detect abnormal bloom macula and attach itself to the proteins in the abnormal blood vessels. Laser wavelengths, which activates photosensitive drugs like verteporfin, is focused for about one minute.

When verteporfin is activated by the laser, the abnormal blood vessels in the macula are destroyed. This happens without any damage to surrounding eye to Because normal retinal vessels retain very little verteprofin, the abnormal subselectively destroyed. Blood or fluid cannot leak out and damage the macula and (Wormald 2007).

While verteporfin PDT slowed wet AMD progression, newer anti-VEGF therapies havision improvement in many patients. Combination therapies (PDT + corticostero have shown some promise, particularly in certain classes of disease (Miller 20 Laser Photocoagulation

Laser photocoagulation (LP) is an effective treatment for wet type AMD. However, LP is limited to the treatment of well-defined, or "classic" subneovascularization, present in only 25% of those with wet type AMD (Anon 2011a

patients, LP is effective at preventing future vision loss, but it cannot rest In addition, choroidal neovascularization can recur after treatment and cause (Yanoff 2004). LP has not worked well on atrophic (dry) AMD.

Surgery. Subretinal surgery has been attempted for AMD. Some surgeries were gethe removal of blood and the subretinal neovascular membrane. Another type of attempted to physically displace the macula and move it onto a bed of healthie research studies show that the results of surgery are disappointing (Bressler generally not improved after surgery (Hawkins 2004). Additionally, the frequent surgical complications were generally thought to be unacceptably high.

In late 2010, the FDA approved a device called the Implantable Miniature Teles improve vision in some patients with end-stage AMD. The IMT replaces the natur surgery in only one eye and provides 2X magnification. The other eye is used for vision. In the clinical trials upon which FDA approval was based, at 1 and 2 years percent of patients had an improvement in their visual acuity of two lines improved their vision by three lines, and 40 percent had a four-line improvement (Hudson 2008 and www.accessdata.fda.gov).

Each person may respond differently to the various conventional treatments ava macular degeneration. From a patient's perspective, it is very important to the understand wet macular degeneration and its treatment in order to be able to deterapeutic plan with his or her doctor. A specific treatment plan should be to patient's needs and disease activity.

The advent of anti-VEGF therapies, for example, has been seen as a significant for patients with wet macular degeneration. It is important to speak with a specific the benefits and side effects of anti-VEGF drugs to determine if they are appropriately case. It should be noted that there is some speculation, which is not strong human data, that anti-VEGF macular degeneration treatments may exert sy and negatively impact vascular health by "leaking" from the eye.

It is, therefore, important to evaluate your cardiovascular health if you are degeneration. For instance, a person who recently had a heart attack or has exatherosclerosis may opt to avoid anti-VEGF treatments in favor of photodynamic laser photocoagulation. Individuals receiving anti-VEGF treatments should targ mg/dL, fasting glucose between 70-85 mg/dL, etc. For more tips on supporting y cardiovascular health, read our Atherosclerosis and Cardiovascular Disease Pro Emerging Options: Hormone Therapy DHEA

Research has shown that the hormone dehydroepiandrosterone (DHEA) is abnormall patients with AMD (Bucolo 2005). DHEA has been shown to protect the eyes again damage (Tamer 2007). Because the macula requires hormones to function, an emer hypothesizes that low blood sex hormone levels cause the retinal macula to acc cholesterol in an attempt to produce its own hormones (Dzugan 2002).

The accumulation of cholesterol in macula may lead to the production of pathol degeneration. An inverse association of female hormone with neovascular AMD was with current and former use of hormone replacement therapy among Caucasian and women (Edwards 2010). Restoring optimal hormone balance with bioidentical hormone effective new treatment for both men and women. Clinical studies are underwhypothesis and possible hormonal treatment options.

Melatonin

Melatonin is a hormone and strong antioxidant that scavenges free radicals. Se studies have shown that many areas of the eye have melatonin receptors (Rastma melatonin at bedtime. The treatment prevented further vision loss. After six mand not diminished and the majority of patients had reduced pathologic macular examination (Yi 2005).

Dietary Considerations

Soy. Soy contains the phytonutrient genistein, which has documented antianging properties postulated to be the result of inhibiting VEGF (Yu 2010). This proposed vessel growth is important in limiting abnormal ingrowth of choroidal blunice, genistein inhibited retinal neovascularization and expression of VEGF (W

Food rich in Omega-3 fatty acids. Oily fish (e.g., salmon, tuna, and mackerel) seeds are important sources of omega-3 fatty acids, essential for protection a degeneration and other diseases (Landrum 2001). A meta-analysis found that pathigh dietary intake of omega-3 fatty acids had a 38% lower risk of late (more Additionally, an association was observed between eating fish two times a week reduced risk of both early and late AMD (Chong 2008).

Macular Pigments: Lutein, Zeaxanthin, and Meso-Zeaxanthin

The relationship between the density of macular pigment (MP) and the onset of established. The MP is composed principally of three carotenoids: lutein, zeax meso-zeaxanthin. They represent roughly 36, 18, and 18 percent, respectively, carotenoid content of the retina. They are found within the macula and surroun including blood vessels and capillaries which nourish the retina (Rapp 2000). Lutein, zeaxanthin and meso-zeaxanthin ensure proper functioning of the macula harmful ultraviolet light and acting as antioxidants (Beatty 2000; Kaya 2010). process, there is a decrease in levels of lutein and zeaxanthin; low levels of AMD (Johnson 2010). An autopsy study on donated eyes found that levels of all carotenoids were reduced in those with macular degeneration compared to control The most significant finding, however, was the sharp decrease in meso-zeaxanth macula of macular degeneration subjects (Bone 2000).

This postmortem study helped confirm other studies indicating the importance of integrity of the macula (Krinsky 2003). These carotenoids protect the macula aphotoreceptor cells beneath via their antioxidant properties and light-filteri (Landrum 2001).

Intake of lutein and zeaxanthin is an important preventative measure, but may degeneration process when it is ongoing (Richer 2004). Because lutein and zeax tissue-specific characteristic of all carotenoids, their natural tendency is to macula and retina. Consumption of foods rich in these substances is especially they have a direct effect on macular pigment density -- the denser the pigment retinal tear or degeneration will occur (Stahl 2005). Fruits with a yellow or mangoes, kiwis, oranges, and vegetables of the dark green leafy, orange and yeare sources of lutein and zeaxanthin (Bone 2000).

Unlike lutein and zeaxanthin, meso-zeaxanthin is not found in the diet, but is youthful macular density (Bone 2007). Patients with macular degeneration have have 30% less meso-zeaxanthin in their macula compared to individuals with hea (Quantum Nutritionals, data on file). When taken as a supplement, meso-zeaxant absorbed into the blood stream and effectively increases macular pigment level Targeted Nutritional Interventions

Anthocyanidins and Cyanidin-3-Glucoside (C3G). C3Gs are critical components of well as being powerful antioxidants (Amorini 2001; Zafra-Stone 2007). Positive been noted in many animal studies and some human studies using bilberry for madegeneration as well as other eye disorders including diabetic retinopathy, reglaucoma, and cataracts (Fursova 2005; Milbury 2007). C3G has been shown to imvision in humans by enabling the rods in the eye responsible for night vision functioning faster (Nakaishi 2000).

In animal cells, C3G regenerated rhodopsin (the retinal

complex that absorbs light) (Amorini 2001). The anthocyanidins in bilberry decepermeability by interacting with blood vessel collagen so as to slow down enzy the blood vessel wall. This may prevent the leakage from capillaries that is prevent and the second and the second and the second are second at the second and the second are second as a second at the second are second as a second as

C3G, which is highly bioavailable, enhances other functions in the body (Miyaz 1999; Matsumoto 2001). Its potent antioxidant properties protect tissues again often the first step in cancer formation and aging of tissues (Acquaviva 2003; C3G protects endothelial cells against peroxynitrite-induced endothelial dysfu vascular failure (Serraino 2003).

In addition, C3G fights vascular inflammation by inhibiting

inducible nitric oxide synthase (iNOS) (Pergola 2006). At the same time, C3G wactivity of endothelial nitric oxide synthase (eNOS), which helps maintain nor function (Xu 2004). These effects on blood vessels are especially important in delicate nerve cells depend on the single ophthalmic artery for their sustenant In animal models, C3G prevents obesity and ameliorates blood sugar elevations One way it does this is by increasing gene expression of the beneficial fatere adiponectin (Tsuda 2004). Diabetics, of course, are predisposed to severe eye including blindness from elevated blood sugar levels.

C3G helps induce apoptosis (programmed cell death) in a number of human cancer important step in cancer prevention (Fimognari 2004; Chen 2005). In a similar different mechanism), C3G stimulates rapidly proliferating human cancer cells they more closely resemble normal tissue (Serafino 2004).

Finally, it was discovered that C3G is neuroprotective in experimental cellula function, helping to prevent the negative effects of the Alzheimer's-related p on brain cells (Tarozzi 2010).

Grape Seed Extract

Grape seed extract, a bioflavonoid, is a potent antioxidant. Plant-derived bioflavonoids are readily assimilated into our body when consumed. Bioflavonoi protect retinal ganglion cells (Majumdar 2010). Studies conducted in fruit flithat grape seed extract attenuates the aggregation of pathologic proteins, whi protective effect against macular degeneration and neurodegenerative disorders fruit flies administered grape seed extract exhibited improved eye health (Pfl experiments in diabetic animals indicate that grape seed extract limits the ordamage seen in diabetic retinopathy (degradation of the retina), which shares pathological characteristics with AMD (Li 2008).

Compelling laboratory evidence demonstrates that grape extracts can inhibit an human cells (Liu 2010). This suggests that grape seed extract may suppress the vessel growth observed in wet AMD.

Resveratrol

Resveratrol is a potent polyphenolic antioxidant compound produced by grapes and other plants for protection against pathogens. In humans, it exerts a broaphysiologic effects when ingested orally. Several studies have demonstrated caproperties of resveratrol, including endothelial protection and attenuation of indicates that resveratrol may combat macular degeneration and promote eye heamechanisms. In an animal model, resveratrol was able to stave off diabetes-indications (Kim 2011).

Moreover, this same study showed that resveratrol was able to dampen VEGF signaling in mouse retinas, a key pathologic feature of AMD. Another study these results by showing that resveratrol inhibited angiogenesis and suppressed neovascularization in mice prone to develop macular degeneration due to a gene (Hua 2011). Also, several laboratory experiments have suggested additional production of resveratrol in macular degeneration, including protecting retinate epithelial cells from hydrogen peroxide-induced oxidative stress and light dama 2010; Pintea 2011).

Given these exciting initial findings regarding resveratrol and macular degenerits stellar track record in a variety of other conditions, Life Extension believith AMD (especially the "wet" variety) may benefit from supplementation with Ginkgo Biloba. Ginko biloba improves microcapillary circulation in the eye and deterioration of the macula (Thiagarajan 2002). By inhibiting platelet aggregated blood vessel elasticity, ginko biloba improves blood flow through major blood capillaries. Ginkgo is also a powerful antioxidant (Mahadevan 2008).

Glutathione and Vitamin C. Glutathione and Vitamin C are antioxidants found in concentrations in healthy eyes and in diminished quantities in the eyes of AMEC aids glutathione synthesis in the eye. When combined with cysteine, an amino antioxidant, cysteine remains stable in aqueous solutions and is a precursor to

synthesis. Vitamin C is important because it absorbs ultraviolet radiation, who cataracts (Tan 2008). Topical Vitamin C inhibited angiogenesis in an animal moinflammatory neovascularization (Peyman 2007).

L-Carnosine

L-Carnosine is a naturally occurring antioxidant and anti-glycation agent. Stubave shown that carnosine inhibits lipid peroxidation and free radical-induced (Guiotto 2005). Topically applied N-acetyl-carnosine prevented light-induced E and repaired damaged DNA strands (Specht 2000), as well as improved visual aculens opacification in animals and humans with advanced cataracts (Williams 200 2009).

Selenium

Selenium, an essential trace mineral, is a component of the antioxidant enzyme glutathione peroxidase, important in slowing the progression of AMD and other including cataracts and glaucoma (Head 2001; King 2008). In mice, increased exglutathione peroxidase protected against oxidative-induced retinal degeneration coenzyme Q10 (CoQ10). CoQ10 is an important antioxidant that may protect again radical damage within the eye (Blasi 2001). Mitochondrial DNA (mtDNA) instabil important factor in mitochondrial impairment culminating in age-related change In all regions of the eye, mtDNA damage is increased as a consequence of aging age-related disease (Jarratt 2010). In one study, a combination of antioxidant acetyl-L-carnitine, and omega-3 fatty acids improved the function of mitochond pigment epithelium and subsequently stabilized visual functions in patients af AMD (Feher 2005).

Riboflavin, Taurine, and Lipoic Acid

Riboflavin (B2), taurine, and R- lipoic acid are other

antioxidants utilized to prevent AMD. Riboflavin is a B complex vitamin that r glutathione and helps prevent light sensitivity, loss of visual acuity, as well in the eyes (Lopez 1993). Taurine is an amino acid found in high concentration taurine deficiency alters the structure and function of the retina (Hussain 20 considered a "universal antioxidant" because it is fat and water soluble. It a neovascularization in mice (Dong 2009).

B Vitamins

Recent advances surrounding the causes of AMD have unearthed shared risk factors with cardiovascular disease (CVD) as well as similar underlying mechan elevated biomarkers of inflammation and CVD including C-reactive protein (CRP) homocysteine (Vine 2005). Researchers have identified that elevated levels of and low levels of certain B vitamins (critical to the metabolism of homocystei with an increased risk of AMD and vision loss in older adults (Rochtchina 2007 found that supplementing with folic acid, B6, and B12 can significantly reduce adults with cardiovascular risk factors (Christen 2009). The data, along with confirmatory studies, have convinced physicians to recommend B vitamin supplem patients with AMD. A study in more than 5000 women indicates that including fo mg/day), B6 (50 mg/day) and B12 (1 mg/day) in the diet may prevent and reduce AMD (Christen 2009).

Supplement Recommendations from the Age-Related Eye Disease Study (AREDS) The largest and most important study of nutritional supplements in AMD is the Disease Study (AREDS). The AREDS demonstrated a reduction in the risk of progrend-stage AMD when vitamins and zinc supplementation were given to patients wi forms of the disease. Thousands of patients were followed for over six years. revealed significant improvements for patients with AMD and recommended antiox zinc for most patients with AMD, except those with advanced cases in both eyes formula consists of the following, which is to be taken daily: Vitamin A (Beta C, Vitamin E, Zinc and Copper (Fahed 2010).

DHA and EPA

An 8-year trial of 2924 eligible AREDS AMD participants found that independent of AREDS supplementation, higher intakes of DHA and EPA were associated with a

for progression to advanced AMD (Chiu 2009). Zinc. Following the revealing data found from the AREDS, additional research of shown significant activity in treating AMD, specifically the dry form of the d study, a zinc-monocysteine supplement significantly improved visual acuity and sensitivity compared to placebo (Newsome 2008). Summary There has been limited success within conventional medical treatment protocols eyesight from either form of AMD. Leading researchers are documenting the bene holistic approaches to AMD. Patients are encouraged to increase physical fitne nutrition (including a reduction in saturated fats), abstain from smoking, and from excessive light. Dietary supplementation with trace elements, carotenoids and vitamins is recommended for improving overall metabolic and vascular funct screening and patient education offer the most hope for reducing the debilitat Life Extension Suggestions Lutein: 10 - 20 mg daily Zeaxanthin: 3 - 8 mg daily Astaxanthin: 6 - 12 mg daily Cyanidin-3-glucoside (C3G): 2 - 5 mg daily Methyltetrahydrolfolate (MTHF): 1000 - 2000 mcg daily Vitamin B6 (as pyridoxal 5'-phosphate): 100 - 200 mg daily Vitamin B12 (as methylcobalamin): 1 - 5 mg daily Beta carotene: 25?000 IU daily Vitamin C: 1000 - 2000 mg daily Natural Vitamin E: 100 - 400 IU alpha-tocopherol and 200 mg gamma-tocopherol d Zinc: 45 - 60 mg daily Copper: 2 mg daily R-Lipoic acid: 300 - 900 mg daily Selenium: 200 - 400 mcg daily Taurine: 1000 mg daily CoQ10 (as ubiquinol): 100 - 300 mg daily N-acetyl-carnosine eye drops: 1 - 2 drops, 1-4 times daily Omega-3 fatty acids (from fish): 2000 - 6000 mg daily Ginkgo biloba (standardized extract): 120 - 240 mg daily Grape extract: 150 - 300 mg daily Bilberry (standardized extract): 100 - 200 mg daily Soy isoflavones: 135 - 270 mg daily The following blood testing resources may be helpful: Male and Female Panel Omega Score® Coenzyme Q10 (CoQ10)

In addition, the following pharmaceutical options should be discussed with you Lucentis®

Macugen®

Avastin®

These statements have not been evaluated by the Food and Drug Administration. products are not intended to diagnose, treat, cure or prevent any disease.

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Life Extension

faim.org

Stop Degenerative Eye Disease with Coconut Oil

Dr. Bruce Fife

Can you avoid age-related degenerative eye disease? Our eyesight naturally dim some extent as we age, but regardless of our age, our eyes should provide us w for a lifetime. New research reveals that good eyesight can be maintained for age-related eye disorders can be stopped dead cold and possibly even reversed. maintaining good vision depends on your diet.

The body has an amazing ability for self-repair. We get a cut, a bruise, break some other injury, the body knows exactly what to do to repair the damage. In completely healed, damaged blood vessels in a bruise are repaired, and broken fused back together, in many cases the repair is so complete that there is lit an injury ever occurred.

Like other tissues, peripheral nerves throughout our bodies have a high capacit regeneration after injury, however injury to nerve cells within the central new In fact, for many years it was believed that brain tissue, could not be repair Once an injury occurred, the neurons, or brain cells, were gone forever. It was brain cells we were born with were all that we would ever have. We now know the right conditions brain cells can be regenerated and new brain cells do grow an other cells throughout the body.

The brain contains two types of nerve cells: glia and neurons. Glia are the more provide the structural support that holds all the brain cells together. They a important functions, but they don't relay signals; that is the function of the transmit signals by means of electrochemical impulses which allow us to think, function in our environment.

Neurons consist of three basic parts: (1) the cell body (2) the axon, a long of

Neurons consist of three basic parts: (1) the cell body (2) the axon, a long of the cell that carries electrochemical impulses along the length of the cell nerve endings that branch out like the branches on a tree. Messages are passed nerve impulses from the axon of one neuron to the dendrite of other. If you st message is relayed in this manner almost instantaneously up to the brain where as pain and the appropriate reaction can be quickly initiated.

The eyes are extensions of the brain and are also composed of glia and neurons sensitive portion of the eye is the retina, which lines the inside of the eyes retina it sends nerve impulses through the retinal ganglion cells (RGCs) to the have long axons that join together like threads in a piece of rope to form the Any damage that occurs to the RGCs or optic nerve can cause visual impairment enough, complete blindness. When injured, retinal ganglion cells generally do ability for self repair and eventually die, eliminating any chance for regener RGCs or the optic nerve leads to lifelong visual impairment.

The most common degenerative eye diseases that involve damage to the retina and are glaucoma, macular degeneration, and diabetic retinopathy. These three conditions the vast majority of irreversible vision loss in people living in affluent confiducoma is believed to be caused, in part, by abnormal pressure within the eye filled with a viscous fluid that helps maintain the shape of the eye and circulated is constantly entering and leaving the eyeball. If it enters faster than within the eye builds up damaging the retina and optic nerve. Treatment is for fluid pressure with the use of medicated eye drops, drugs, laser therapy, surgombination of these. Unfortunately, all these procedures have the potential funwanted side effects or injury.

Diabetic retinopathy is caused by inadequately controlled diabetes. High blood blood vessels feeding the retina to degenerate and become leaky. This distorts leading to permanent damage. Besides trying to get blood sugar under control, involve laser surgery to burn or cauterize damaged blood vessels to keep them This permanently scars the retina, but may prevent or slow further vision loss Macular degeneration is the slow destruction of the macula - the portion of the

needed for sharp, central vision. In macular degeneration central vision is lo progresses out affecting side or peripheral vision. Vision loss is permanent. macular degeneration is unknown and there is no effective treatment. When macu degeneration occurs later in life it is usually referred to as age-related made distinguish it from other forms that may be inherited and appear early in life For many years the inability of damaged retinal neurons and optic nerve to reg accepted almost as a "law of nature," and on the clinical level, retinal injur irreversible and corresponding vision loss was permanent. Today medical resear starting to unlock the secrets of neuronal regeneration. Under the right condi retina and optic nerve can be healed. A growing number of studies over the pas have demonstrated that mature RBCs can be transformed into an active regenerat allowing these neurons to survive injury and to regenerate axons in the injure Almost all clinical studies using drugs as a means to protect the retina, opti components of the eye have failed. However, a special group of naturally occur called brain-derived neurotrophic factors (BDNFs) show great promise. BDNFs pl regulating survival, growth, and maintenance of neurons. They help support the existing neurons and encourage the growth and differentiation of new neurons. Normally, injury to the optic nerve induces a rapid die-back of the axons lead ganglion cell death. However, when an adequate amount of BDNFs are present, the injury are diminished and RGCs can be repaired or regenerated. Animal studies have shown that after severing the optic nerve in adult rats, r

Animal studies have shown that after severing the optic nerve in adult rats, r progressively degenerate until, after two months, a residual population of onl of these cells survive. When BDNFs are present, however, survival rate signification for example, in one study researchers severed the optic nerves in a group of rate injury to the optic nerve caused a rapid, progressive degeneration of the of the RGCs. After 3 weeks, only 10 percent of the RGCs survived. After 5 week dropped to 8 percent, and by the 7th week only 5 percent remained. In a second BDNFs was injected into their eyes before the optic nerve was severed. In this three times as many RGCs survived compared to untreated controls.1

Studies show that after severing the optic nerve, BDNFs not only protect RGCs promote regrowth of the axons. RGCs sprout new axons, elongate, and form funct connections with other neurons. In lab animals that have had their optic nerve allowed them to recover the ability of light-dark discrimination. 2 In essence, been able to restore partial sight to blind mice.

We always have some BDNFs circulating in our central nervous system that helps brains and eye from degeneration. However, people with diabetic retinopathy, gmacular degeneration have a deficiency of BDNFs, which makes them more suscept neurodegeneration and visual problems.3-4

BDNFs provide the potential for preventing degenerative vision loss and possible lost vision. In animal studies, BDNFs can be injected directly into the eyebal these protective proteins. Clinically, this process is not feasible because in therapeutic levels of BDNFs, multiple injections are needed over a period of the benefit.5

Fortunately, BDNFs are produced naturally in our bodies. Using this fact, anot raise BDNFs to therapeutic levels is to boost the body's own production of the proteins. This can be done quite simply through diet.

The production of BDNFs is stimulated by the presence of ketones. Ketones are fatty acids stored in the body and provide an alternative to glucose as a sour brain. Normally, our cells, including our brain cells, use glucose as their present the glucose in our bodies comes from carbohydrates in our foods. When we carbohydrates are converted into glucose and released into our bloodstream. Be when we don't eat carbohydrates, blood glucose levels fall. Our cells need a centre of function, so when this happens, fat stores in the body are mobilized are released into the bloodstream. Our cells can use fatty acids for fuel just The brain, however, cannot use these fatty acids and must have an alternative Some of these fatty acids are converted into ketones, which are readily used a

Ketones not only supply the brain with energy, but also trigger the synthesis One way to increase the body's levels of BDNFs is to eat a low-carb diet. A lob blood glucose levels low, which causes the release of fatty acids and the prod A very low-carb or ketogenic diet stimulates greater ketone production and higher the transpution of BDNFs can be attained and maintained for an indefinite per very low-carb diet.

Another way to raise ketones, and consequently BDNFs, is by eating coconut oil composed predominately of the unique group of fatty acids known as medium chai (MCFAs). When consumed, a significant proportion of these MCFAs are automatical into ketones, regardless of blood glucose levels. You can raise blood ketone a simply by adding coconut oil into your daily diet.

If you eat enough coconut oil, you can raise blood levels of BDNFs to therapeu would require the daily consumption of 3 to 6 tablespoons of coconut oil daily would be needed if you combine coconut oil with a very low-carb diet.

If you want to preserve your vision and protect yourself from encountering age degenerative eye disorders that affect the retina and optic nerve, your safest approach would be to incorporate coconut oil into your daily diet. If you have experienced some vision loss due to glaucoma, macular degeneration, or diabeti combining coconut oil with a low-carb diet can help you prevent any further vipossibly even regain some of your lost vision.

http://www.faim.org/stop-degenerative-eye-disease-with-coconut-oil

Intravitreal injections of neurotrophic factors

survival of axotimized retinal ganglion cells

reduced levels of brain derived neurotrophic factor

bdnf impairment is associated with age-related

patterns of retinal ganglion cell survival

Vitamin B9 (folate)

High homocysteine levels (perhaps above 8 ?mol/L) appear to increase age-relat degeneration. Many people (60% of the population, and 90% of people with depre use regular folate well which may contribute to high homocysteine levels. Taki (methyl version of vitamin B9) may increase folate blood levels 700% higher th folate and may reduce homocysteine levels much lower. Lowering homocysteine may reduce depression, anxiety, dementia, bipolar disorder, schizophrenia, cardiov congestive heart failure, stroke, migraines, and hearing loss.

What else lowers homocysteine-

vitamin B6, vitamin B12 (methylcobalamin may be best), betaine (TMG), vitamin magnesium

n-acetyl L-cysteine (NAC)

S-adenosylmethionine (SAMe)

taurine

green vegetables, especially dark green leafy vegetables

oranges

beans

exercise

What to avoid

the prescription drugs cholestyramine, colestipol, fenofibrate, levodopa, metf methotrexate, niacin, nitrous oxide, pemetrexed, phenytoin, sulfasalazine red meat and dairy products

smoking

coffee

alcohol consumption

advancing age

obesity

Reduced B Vitamin Therapy in MTHFR C677T/A1298C Patients with Major Depressive - Clinical Response Correlates with Homocysteine Reduction: A Double-Blind, Placebo-Controlled Study

Arnie Mech and Andrew Farah

http://enlyterx.com/wp-content/uploads/2015/11/EnLyte-Clinical-Study-Reprint.p https://globenewswire.com/news-release/2015/07/29/756168/10143796/en/Breakthro ssion-Study-Shows-42-Remission-Rate-With-EnLyte.html

http://www.drweil.com/health-wellness/body-mind-spirit/heart/elevated-homocyst qlaucoma

test 3-5yrs if 40-60yrs old

1 to 2 if over 60

tonometry (eye pressure test) AND ophthalmoscopy

eye pressure may not be enough

generic PGAs work

glaucoma- 3yrs of birth control pill usage doubles

glaucoma risk factors, such as African heritage, diabetes, heart disease, high hypothyroidism or retinal problems...a history of smoking, early menopause (pr long-term use of corticosteroids...a family history of glaucoma...and those who older.

Cataracts

Microstents implanted during cataract surgery lower glaucoma deterioration by MSM or DMSO may improve the absorption of medicinal eyedrops.

Cineraria eyedrops may heal cataracts early on, & one drop a day may prevent.

N-acetyl carnosine may also reverse cataracts. Bilberry & pycnogenol may also help cataracts.

Lecithin liposomal vitamin C & vitC in foods may reduce cataracts.

Onions, garlic, cabbage, broccoli (especially sprouts), cauliflower, greens al

N-acetylcysteine (NAC) & Alpha lipoic acid (ALA)

NAC & ALA helps improve glutathione effectiveness for the eye.

only test needed is blood pressure, heart rate, no infection multifocal replacements up to \$4000 out of pocket & increased repeate surgery, get toric lens if astigmatism or irregular cornea on naturally.

3.) Almonds to Improve Your Vision Naturally

Almond is a well known remedy for eyesight. It contains vitamin E, antioxidant 3 fatty acids. Almond helps in enhancing concentration and memory. It is an ef remedy to improve vision naturally. Soak 5-10 almonds in a glass of water. Lea and then in the next morning, peel the skin of almonds and grind them. Make a consume them with a glass of warm milk. Do this remedy on a regular basis for best effects.

4.) Indian Gooseberry to Improve Your Vision Naturally

Gooseberry is the most effective home remedy for weaker eyesight. It works as herb for low vision. It is packed with a rich source of vitamin C. Vitamin C h functioning of retinal cells. It contains several nutrients and antioxidants. gooseberry in any form such as capsule, jam, tablet, juice or powder. Mix 2-3 Indian gooseberry juice in a half cup of water. Drink this at least twice in a

5.) Eat Healthy to Improve Your Vision Naturally

Healthy diet is an important factor for improving natural vision. If you are n nutritious diet, it will affect your eyesight. Start consuming a healthy and b it plays an important role to improve your eyesight. You must have these useful in your daily diet routine such as eggs, milk, Eat spinach, carrot juice, blue sweet potato, dry fruits, salad, green vegetables, fruits, fish oil and lemon nutrition expert, to set a diet according to your problem.

6.) Bilberry to Improve Your Vision Naturally

Bilberry is the best remedy for weak eyesight and night blindness. Bilberry coantioxidants, which helps to stimulate blood flow of human body. It increases and strengthens blood vessels. Which protects your eyes from harmful contents. protect from glaucoma and cataracts. Eat about one half cup of ripe bilberry fimprove your vision.

7.) Sunning And Palming to Improve Your Vision Naturally

Sunning and palming is also a good home remedy for weaker eyesights. It is a be method to use for reactivating your eye lens muscles. Sunning and palming your provide benefit to your eyes. This method helps to relax your eyes. For sunning allow the sun to heat your eyes directly. Do this for few minutes regularly. For to rub your hands together to generate heat. After that, you have to close your eyes slightly through your hands, it will give you relaxation on your eyes regularly.

8.) Carrot to Improve Your Vision Naturally

Carrot is one of the most effective remedy for low vision and weaker eyesight. vitamins and nutrients especially phosphorous, iron, calcium and vitamin A. Yo glass carrot juice regularly or you can also eat carrots as a salad. Eat or dr will help to improve your eyesight.

9.) Barefoot Walking to Improve Your Vision Naturally

Walking is the most important part of life. It helps us to maintain our health walking or barefoot walking into their daily routine. Barefoot walking on a gr morning will help you to get improvement in your eyesight effectively. If you vision power again, then start barefoot walking regularly.

10.) Fennel to Improve Your Vision Naturally

Fennel is also known as the best remedy for low vision or weaker eyes. Fennel the herb of eyesight. It contains antioxidants and nutrients which helps to ge assists to improve our weak eyesight. Take one cup of fennel, one cup of almost sugar. Then blend these ingredients and make a powder of it. Eat one teaspoon a glass of milk before sleep. Use this remedy at least 2-3 months on a regular world around you without the need of glasses.

Goji berries help eyesight.

Astaxanthin

Astaxanthin is an algae extract that is an anti-inflammatory/painkiller, preversinternally), and helps eye health. Astaxanthin needs to be taken with a meal we to be absorbed. Astaxanthin can help prevent:

Age-related macular degeneration (ARMD)

Cataracts

Inflammatory eye diseases (i.e., retinitis, iritis, keratitis, and scleritis) Retinal arterial occlusion and venous occlusion

Cystoid macular edema

Diabetic retinopathy

Glaucoma

http://articles.mercola.com/sites/articles/archive/2017/02/20/astaxanthin-wholpx?utm_source=dnl&utm_medium=email&utm_content=art1&utm_campaign=20170220Z1&etcid=DM134476&etrid=1894192536# edn23

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Izumi-Nagai K, Nagai N, Ohgami K, Satofuka S, Ozawa Y, Tsubota K, Ohno S, Oike J Pharm Pharmacol. 2008 Oct; 60(10):1365-74. doi: 10.1211/jpp/60.10.0013. Astaxanthin, a dietary carotenoid, protects retinal cells against oxidative st mice in-vivo. Nakajima Y, Inokuchi Y, Shimazawa M, Otsubo K, Ishibashi T, Hara H. Ophthalmology. 2008 Feb;115(2):324-333.e2. Epub 2007 Aug 22. Carotenoids and antioxidants in age-related maculopathy italian study: multifo electroretinogram modifications after 1 year. Parisi V, Tedeschi M, Gallinaro G, Varano M, Saviano S, Piermarocchi S; CARMIS Regul Toxicol Pharmacol. 2010 Oct;58(1):121-30. doi: 10.1016/j.yrtph.2010.05.0 May 8. Suppressive effect of astaxanthin on retinal injury induced by elevated intrac Cort A, Ozturk N, Akpinar D, Unal M, Yucel G, Ciftcioglu A, Yargicoglu P, Asla Pure Appl. Chem., 1999, Vol. 71, No. 12, pp. 2253-2262 http://dx.doi.org/10.1351/pac199971122253 Journal of the Science of Food and Agriculture May 1, 2001: 81(6); 559-568 Infrared light and macular degeneration Infrared light exposure (12 min 3x/day) may help reduce macular degeneration, http://articles.mercola.com/sites/articles/archive/2017/02/26/photobiomodulati ce=dnl&utm_medium=email&utm_content=mv1&utm_campaign=20170305Z1_UCM&et_cid=D M135758&et rid=1912368176 heart astax Mediators Inflamm. 2013; 2013: 782137. 2013 Dec 31. doi: 10.1155/2013/782137 Dietary Intake of Carotenoids and Their Antioxidant and Anti-Inflammatory Effe Cardiovascular Care Marco Matteo Ciccone et al. Multiple Mechanisms of Anti-Cancer Effects Exerted by Astaxanthin Li Zhang and Handong Wang Orazio Taglialatela-Scafati, Academic Editor Mar Drugs. 2015 Jul; 13(7): 4310-4330. 2015 Jul 14. doi: 10.3390/md13074310

Improving Eyesight with Red Light Therapy

https://www.cyanotech.com/pdfs/bioastin/batl08.pdf

This review shows that infrared light therapy treats both dry & wet macular de

successfully. It also may help the eye recover from the shots.

It also explains just why refined & heated veg oils that have polyunsatured fa (unheated & unrefined oils are healthy- especially organic extra virgin olive country).

And it includes a review finding there may not be an eye disease that near inf doesn't seem to help.

Here's one of the best bulbs:

https://www.therabulb.com/blogs/test/therabulb-introduces-industry-first-300-wncandescent-bulb

12 min 3x a day at 20 inches or 9 min at 15 ininches (unless too hot!) https://endalldisease.com/healing-eyesight-vision-loss-with-red-light-therapy/

This review shows that infrared light therapy treats both dry & wet macular degeneration successfully. It also may help the eye recover from the shots.

It also explains just why refined & heated veg oils that have polyunsatured fat cause AMD (unheated & unrefined oils are healthyespecially organic extra virgin olive oil from one country).

And it includes a review finding there is not an eye disease that near infrared therapy doesn't help. Here's one of the best bulbs: https://www.therabulb.com/blogs/test/therabulb-introduces-industry-fir st-300-watt-near-infrared-incandescent-bulb 12 min 3x a day at 20 inches or 9 min at 15 ininches (unless too hot!) At the 1:13 minute mark is the information on macular degeneration. At the start is the information on the cause of all heart disease. His research and what I've found is the cause:

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Here's doctor who's done months of research to find the origins of macular degeneration. https://endalldi sease.com/hea ling-eyesight-vi sion-loss-with-r ed-light-therap У/ This review shows that infrared light therapy treats both dry & wet macular degeneration successfully. It also may help the eye recover from the shots. It also explains just why refined & heated veg oils that have polyunsatured fat cause AMD (unheated & unrefined oils are healthyespecially h t t р S / e

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He's found what appears to be the cause of almost all macular
degeneration-:
Refined oils (my last email showed they have mercury \&
formaldehyde from heating) & any oil with polyunsaturated fat that is
cooked (formaldehyde) which is all except unrefined coconut,
unrfinede macademia nut, & unrefined MCT oil has a smoke point of
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260 degrees so ok for heating but not frying (it also increases metabolism & energy & weight loss).

Peanut oil has the least polyunsaturated of all the oils used for potato chips.

Refined grains (bleached white wheat flour, white rice) have mercury added

Refined sugar (in contrast organic raw honey causes weight loss).

Transfatty/hydrogenated oils

organic extra virgin olive oil from one country). And it includes a review finding there is not an eye disease that near infrared therapy doesn't help. Here's one of the best bulbs: https://www.the rabulb.com/blo gs/test/therabul b-introduces-in dustry-first-300 -watt-near-infra red-incandesce nt-bulb 12 min 3x a day at 20 inches or 9 min at 15 ininches (unless too hot!) n g е У е s i g h t V

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Both dry & wet macular degeneration successfully. Italsw.therabulb.com/blogs/
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And it includes a review finding there is not an
eye disease that near infrared therapy doesn't help.
Here's one of the best bulbs:
therabulb.com/blogs/test/therabulb-introduces-industry-fi
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rst-300-watt-near-infrared-incandescent-bulb

12min 3x a day at 20 inches or 9 min at 15 in inches (unless too hot!)

endalldisease.com/healing-eyesight-vision-loss-with-red-light-therapy/

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https://www.therabulb.com/blogs/test/therabulb-introduces-industry-first-300-w 12 min 3x a day at 20 inches or 9 min at 15 inches (unless too hot!)

Infrared therapy & the eyes

The only effective treatment for one form of macular degeneration that brings articles.mercola.com/sites/articles/archive/2017/11/12/photobiomodulation-light

Infrared & red light together in the red heat lamp is far more effective than

The heat lamp may also warm the eye (closed) enough to help kill the bacteria/

Avoid blue light except first thing in morning to prevent eye damage

articles.mercola.com/sites/articles/archive/2020/07/13/light-therapy-can-save-

Prevention macular degeneration

articles.mercola.com/sites/articles/archive/2018/12/15/is-macular-degeneration

What is needed to not have to inject the drugs:

health line.com/health/eye-health/wt-macular-degeneration-treatment-breakthrough and the statement of the

Pharmaceutical grade DMSO may take antibiotics throughout the eye to help kill

Rojas JC, Gonzalez-Lima F. Low-level light therapy of the eye and brain. Eye a J Clin Laser Med Surg. 2001 Dec;19(6):305-14.

saunaspace.com/debunk-near-infrared-light-cataract-connection/

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Category

1. Uncategorized

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