

YOUR HEALING KNEADS

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Safe Fun in the Sun

Nutrition Offers UV Shield

Sharron Leonard

Because sunlight activates the synthesis of vitamin D, a nutrient that works with vitamin A to build strong bones and good eyesight it is essential for health. Furthermore, bright light, specifically sunshine, can improve your mood and help ward off depression. But all things in moderation. Overexposure to UV rays can cause potentially extensive damage to the skin, an all-too-common occurrence. "Skin cancer is now considered epidemic throughout the nation", according to The Centers for Disease Control Prevention. "Over one million residents in the United States are expected to get skin cancer this year more people than the collective total of all who will get cancers of the breast, prostate, lung and colon. Exposure to

toxic molecules. These are known as free radicals and can lead to malignancies. Sunscreen, adequate coverage and sunglasses have long been recommended to avoid this damage, but diverse studies now suggest some promising supplemental strategies for UV protection from the inside out. Certain nutrients and a low-fat diet have shown specific anti-cancer properties.

Free Radical Control

Antioxidants have long been known to neutralize free radicals and render them inactive, protecting cellular structure. Powerful antioxidants include vitamin C (citrus fruits, strawberries, broccoli, tomatoes), vitamin E (asparagus, raw

*Knowledge
rests not upon
truth alone,
but upon error
also.*

-Carl Jung



UV rays cause oxidative damage and can actually change the skin's DNA.

ultraviolet (UV) rays in sunlight causes 90 percent of the skin cancer cases." And this overexposure may double the risk of melanoma, a type of skin cancer that causes more than 80 percent of skin cancer deaths.

UV rays cause oxidative damage and can actually change the skin's DNA cellular structure, creating highly unstable and

nuts and seeds, spinach), beta-carotene (yellow and orange vegetables) as well as the minerals zinc (shell fish, legumes, whole-grain foods) and selenium (nuts, whole-wheat bread, oatmeal). A recent study published in the Journal of Investigative Dermatology demonstrates that lutein and zeaxanthin, plant

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pigments found in predominately green leafy vegetables, also have strong antioxidant properties that diminish the effects of UV irradiation by reducing the acute inflammatory responses. Lutein- and zeaxanthin-rich foods include green, leafy vegetables such as spinach, kale, broccoli and turnips as well as corn and egg yolks.

As long ago as 1991, studies have shown green tea consumption and topical application afford protection against skin tumors. More recent research corroborates these results and points to the polyphenols in green tea, which contain antioxidant and anti-inflammatory properties. In addition, one major element in green tea, epigallocatechin-3-gallate (EGCG), is thought to stop production of an enzyme required for cancer cell growth. Several cups of green tea might be a worthwhile addition to your daily routine.

Avoiding fatty foods may also provide benefit. Studies suggest that a low-fat diet can reduce the incidence of premalignant lesions called actinic keratosis. To maintain a low-fat diet, the U.S. Department of Agriculture recommends that you get most of your calories from organic, whole foods such as grains, fruits, and vegetables and to avoid foods high in saturated fats. For more information, visit the website www.health.gov/dietaryguidelines/.

Know the Index

Even though it is helpful to counteract damage to your skin through nutrition, it remains vital to shield yourself from the sun's invisible UV rays and avoid them when they're at their most intense. The UV Index, a measurement of ultra-violet sun radiation, can assist in protecting you from potentially harmful exposure. This forecast of UV intensity ranges from a nighttime low of 0 to a very sunny 10-plus. It is greatest when the sun hits its apex (noon), then rapidly decreases as the sun moves across the afternoon sky. The higher the UV Index, the shorter the time for skin damage to occur. To determine the UV Index in your area, check your local newspaper, TV and radio news broadcasts, or you can visit www.epa.gov/sunwise/uvindex.html, the U.S. Environmental Protection Agency's website. This rating allows you

to determine your geographic risk and, in turn, the level of adequate sun protection needed.

Regardless of your sun-screening defenses, always be vigilant about checking your skin for possible signs of melanoma. "When melanoma is detected in its early stage, surgical removal cures the disease in most cases," according to the American Academy of Dermatology. "If the disease has spread to lymph nodes, the 5-year survival rate is 30-40 percent. If the disease has spread to distant organs, the 5-year survival rate is 12 percent."

Melanoma appears as a pre-existing mole that changes, or as a new mole on previously unaffected/clear skin. Performing skin self-exams every few months and knowing the characteristics to look for in any mole identified will enhance early detection and reduce risk.

For more information on early detection, visit www.skincancer.org.

And don't forget common sense practices:

- Avoid long-term sun exposure and wear a hat, sunglasses, and protective clothing.
- Apply sunscreen with SPF of 30 or above.
- Avoid artificial tanning devices.
- And be aware of sun exposure year-round.

With a few protective measures, you can continue to enjoy fun in the sun safely. Wear your sunscreen--in the winter months as well as the summer--seek shade, cover up with sleeves and pants, and don't forget your hat!



A colorful diet can help provide sun protection from the inside out.

Relief for Computer Users

Mary Betts Sinclair

According to the American Optometric Association, 46 percent of Americans spend at least five hours a day on a computer or smartphone. When looking at a screen, many people hold their head forward of center and slouch, which puts many upper-body muscles in a shortened position.

HERE ARE SOME WAYS TO AVOID PAIN AND STRAIN:

Computer users tend to blink very little and stare straight ahead, not using their peripheral vision. Be sure to keep blinking, which washes your eyes in naturally therapeutic tears and breaks up your stare.

Take frequent rest breaks using the 20-20 Rule: every 20 minutes, spend 20 seconds looking at something far away, preferably gazing out a window. Also, stand up and move as much as possible. This is a great time to do eye-muscle stretches and range-of-motion exercises for your back and neck. Use your fingertips to gently

massage around your eyes, temples, and forehead. Finally, rub your palms together and gently cup your closed eyes. Relax and breathe freely.

Make sure you have good light, and check that your monitor is the correct distance away from your eyes and at the right height. Also, adjust the screen settings to where they are comfortable in terms of resolution and flicker.

If you wear eyeglasses, have them checked. For example, in order for some people to see clearly with their heads held in an upright and balanced position, and without chronic tightness in the back of the neck, they may need to have a prescription for a longer focal length or larger bifocal inserts, or have an adjustment of their eyeglass frames if they are bent or twisted. Some people may need a stronger or weaker prescription. If your doctor has prescribed a pair of glasses specifically for seeing the computer screen, wear them.

Mary Betts Sinclair is an Oregon-based educator and bodyworker. Learn more about her at www.marybettsinclair.com.



Take frequent breaks to avoid eye strain.

The Power of Tea Tree Oil

Is your medicine cabinet full of ointments, oils, and creams that each treats one specific ailment? Maybe you can cut down on some of the clutter by adding nature's own wonder drug, tea tree oil, instead.

What is Tea Tree Oil

Produced in Australia from the tree *M. alternifolia*, tea tree oil acts as an antiseptic, fungicide, insect deterrent, and more. It has been used in Australia by aborigines for generations and, since the country's colonization, has spread to the rest of the world.

Tea tree oil, which can be found as an essential oil as well as in creams, ointments, shampoo, and even toothpaste, can be used to treat a staggering variety of conditions, including: acne, arthritis, athlete's foot,

burns, cuts, dandruff, eczema, gingivitis, infection, insect bites and stings, lice, muscle sprains, psoriasis, and rashes. And that's just a partial list!

Potential Benefits

The exact cause of tea tree oil's effectiveness is difficult to ascertain, and researchers are still looking into just how much the natural remedy can do for us. Newer studies have looked at its ability to stop the spread of sometimes-deadly methicillin-resistant staphylococcus aureus in hospitals.

Use Safely

While there are plenty of benefits to using tea tree oil, its strength can also be problematic, even dangerous. The Mayo Clinic advises that it's not safe to ingest or take tea tree oil internally, and it is considered particularly harmful if

ingested by pets.

Also, like most natural remedies, the US Food and Drug Administration does not regulate tea tree oil as it does other medicines, leaving no standard quality of tea tree oil products. And, while many people enthusiastically support tea tree oil, it is no substitute for professional medical care.

Yet, many people agree that, if nothing else, tea tree oil should be a part of your first aid kit in case of bites, burns, or scrapes. But who knows? You might find yourself using it for much more than that.

*All the money in
the world can't
buy you back
good health.*

-Reba McEntire

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