

## 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

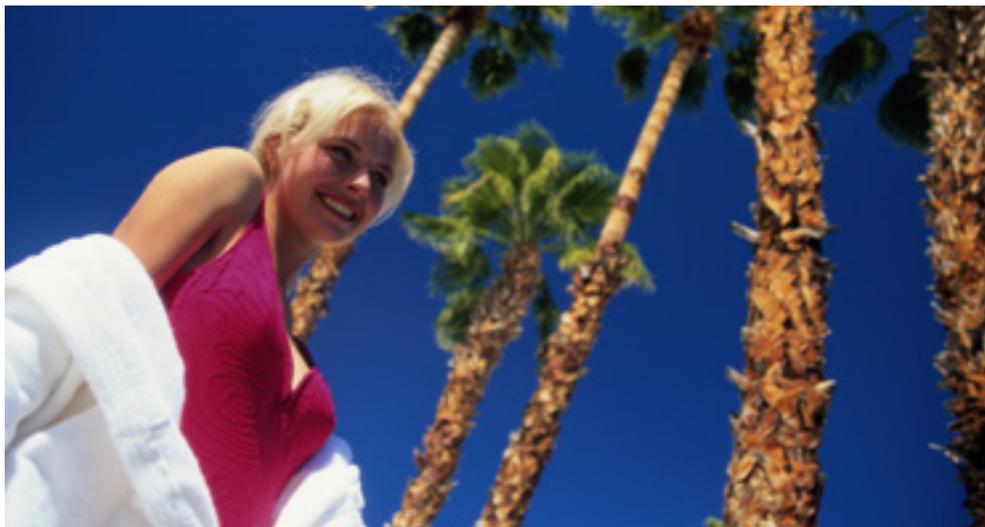
toxic molecules. These are known as free radicals and can lead to malignancies. Sunscreen, adequate coverage and sunglasses have long been recommended to avoid this damage, but diverse studies now suggest some promising supplemental strategies for UV protection from the inside out. Certain nutrients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

*Be happy for  
this moment.  
This moment is  
your life.*

- - Omar Khayyam



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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### Office Hours and Contact

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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/](http://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](http://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](http://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.

# Prevent the Afternoon Slump

## Some Tips for P.M. Energy

*Jerry V. Teplitz*

If you're like most people, you've experienced the afternoon slump. You know the feeling -- it's only 2 p.m., yet you feel drained. Fortunately, you can employ methods to reduce the slump's frequency and shorten its duration.

### DRINK WATER.

Your body uses water even if you're not exercising. If you wait until you feel thirsty, you're already dehydrated. Keep a water bottle handy all day.

### AVOID SUGAR AND SIMPLE CARBOHYDRATES.

While a mid-afternoon candy bar may give you a quick rush, it actually worsens the slump. Instead, choose protein-rich foods and complex carbs.

### EAT SMALL MEALS.

Have six small meals over the course of the day instead of three large ones. Big meals cause the digestive process to divert blood from your brain to use in the digestive track.

### EVALUATE YOUR LIGHTING.

Most offices are lit with cool, white fluorescent tubes, which have a terrible effect on how people feel and function at work. A better option is full-spectrum, fluorescent tubes.

### TAKE TIME FOR WALKS.

Walking gets your blood circulating, helps you breathe better, and stimulates your brain due to the increased blood flow. Take a 5- or 10-minute walk during the day.

### MEDITATE.

Meditation is great for rejuvenating your body. By meditating for 15 to 20 minutes twice a day, you're keeping your body continually energized and rested.

### TAKE TIME TO BREATHE AND STRETCH.

Deep breathing exercises give you an energy boost. Also, stand up and stretch to increase blood flow and stimulate the lymphatic system.

### HANDLE NEGATIVITY.

Negative people and images can have a

draining effect on your energy. Make a conscious effort to stay positive.



**Avoid the drain office settings can bring on.**

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# Be Immune to Inactivity

The World Health Organization has called inactivity the second-leading risk factor for non-communicable diseases and the fourth-leading risk factor for global mortality.

In the United States, inactivity has helped contribute to the fact that 35.9 percent of adults age 20 years and over are obese, as well as 18 percent of adolescents and children ages 6-19.

With risk factors like high blood pressure, high cholesterol, coronary artery disease, stroke, type 2 diabetes, and more, it's important to make sure you get enough exercise and activity to stay healthy.

Here are some tips to help you keep moving.

## Be Aerobic Every Day

The Centers for Disease Control (CDC) recommends getting 2.5 hours of moderate-intensity aerobic exercise each week. If you break it down, that's just over 20 minutes a day of activities like walking, water aerobics, riding a bike, or pushing a lawnmower.

Want to cut that down even further? If you bump the exercise up to vigorous intensity, you can cut the time in half. Vigorous-intensity activities include jogging or running, swimming laps, and playing basketball or tennis.

## Add Muscle-Strengthening

Lifting weights, working with resistance bands, and doing body-weight resistance exercises, heavy yard work, or yoga are all considered by the CDC to be important muscle-strengthening

activities. The recommendation is to get this type of exercise at least twice a week to the point where your muscles are tired.

If you focus on setting realistic goals and getting just a bit of exercise each day, you'll be on your way to meeting the requirements in no time. Find exercises and activities that you enjoy doing, and it won't seem like such a burden. Plus, you'll feel great about reducing the risk factors associated with a sedentary lifestyle. So get a plan, get out there, and get moving!

*Try to be a  
rainbow in  
someone's cloud.*

-- Maya Angelou

Reintroducing A Touch of Vitality this month. Please let me know what you think. I know it's hot out there. Stay inside and let me come to you for a massage!

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