

SUMMER 2014 NEWSLETTER

Steven E. Reznick, M.D. FACP

7280 W. Palmetto Park Rd., Suite 205 N, Boca Raton, FL 33433

561-368-0191 or email DrR@BocaConciergeDoc.com

Hurricane Season 2014 is upon us. Thankfully the meteorologists predict a mild hurricane season but it only takes one storm to cause injury and misery for us all. This edition of the newsletter includes tips on how to prepare medically and how to contact your doctors in the post storm period if you need medical help.

Summer brings increased heat, more sunlight exposure and opportunities for wonderful outdoor activities. Those activities can result in too much sun and heat exposure. To protect yourself I have included articles on sunburn, sun exposure, sun screen, SPF and preventing, recognizing and treating heat related illnesses.

On September 1st, the public health services will start advertising flu vaccinations. We are awaiting a recommendation from the National Institute of Health (NIH) and Center for Disease Control and Prevention (CDC) concerning whether we should be administering the trivalent vaccine, the newer quadrivalent vaccine or the high dose senior vaccine. The high dose senior vaccine was initiated last year and provides four times the dose of the original trivalent vaccine in one shot. Pharmacies such as CVS and Walgreens advertised that this was the preferred vaccine for seniors but in fact to date there is no available research data that shows that one vaccine is superior to others.

The quadrivalent vaccine does contain several more antigens against the B influenza strains not present in the trivalent shot. We will be giving our influenza vaccine beginning October 1st. In the past we have made arrangements, when requested, to vaccinate entire condominium and senior communities. If you or your neighbors are interested in this we need advance notice so please call our office. Influenza vaccination is recommended in all immunocompetent adults.

Hurricane Season: Health-Related Preparations

We are heading into the heart of the Atlantic Hurricane Season. With this in mind certain health related preparations are essential.



- a. Create a hurricane plan.
 - b. Decide in advance whether you will stay in your home or evacuate?
 - c. If you leave, where will you go and how far in advance should you leave to reach safety?
1. Create a plan to communicate with loved ones / friends.
 2. Have a plan to protect your home, property and pets.
 3. If you need a special needs shelter you will need to call the Division of Emergency Management in advance at 561.712.6400 to make a reservation. If you require special equipment to maintain your health, you will need to apply in advance and receive approval to stay in a special needs shelter.
 4. Assemble a two weeks supply of food, water, medicine and other items. Even if FEMA and the authorities respond rapidly you still may need to care for yourselves for several weeks.

As in the past, the office phones will be forwarded out of the area. If there is electricity and functioning cell phone service I can be reached at the office number 561.368.0191 or on my satellite phone at 1.254.240.9301. Satellite phones require me to be outside in the street with the antenna pointed towards a heavenly communications satellite to receive or make a call. Leave a message and I will call back when I check my messages.

Hospital emergency rooms will be open before and after the storms. The ER locks down and closes during a hurricane. The fire department and police do not respond to emergency calls once the winds reach 35 MPH. Unless you have a life threatening health emergency (loss of consciousness, inability to breath, chest discomfort, uncontrollable bleeding or intractable pain) you are best not going to the ER. Waiting time will be longer because they triage protocols call for rationing care and treating the sickest patients first. Each hospital will staff its ER with physicians and will have in-house doctors to care for existing in patients. They are generally unable to reach community physicians if the phone service is down and in the past have sent local police to the homes of the doctors to retrieve them if necessary.

Sunburn, Sunscreen and How to Avoid Damaging Ultraviolet (UV) Light



Summer has arrived and individuals are outside trying to obtain the perfect tan. Exposing yourself to the sun allows your skin to be exposed to ultraviolet light. We are most concerned about ultraviolet light in UV-A spectrum (320-400 nm) and the UV-B spectrum (290-320). UV-A rays penetrate deeply and cause skin damage including photoaging of the skin, immunosuppression both locally on the skin and systemically and increased risk of cancer and infection. It is the UVB radiation that causes tanning. The delayed tanning that occurs 3 days after exposure is due primarily to UV-B radiation and is due to a redistribution of melanocytes and new melanin synthesis and formation. This delayed tanning is at best mildly protective against sunburn at a level equivalent to SPF 2 – 3 but it has no effect on protecting you against cancer or photo-aging.

Sunscreens can help reduce your risk of developing skin damage and cancer. Sunscreens are either inorganic, containing products that physically shield and block the effects of ultraviolet rays, or organic compounds that physically absorb the ultraviolet rays. You should be looking for a sunscreen that is “broad spectrum” protecting against UV-A and UV-B rays. “Water resistant” products protect up to 40 minutes after water immersion. “Very water resistant” products protect up to 80 minutes after water immersion. Research shows that broad spectrum sunscreens, with SPF 17 or greater, provides protection against squamous cell carcinomas, and photo-aging, but are less effective in preventing basal cell cancers and melanomas.

It is recommended that we use sunscreen daily on all sun exposed skin. The clouds only scatter UV-B rays so on cloudy days you are being bombarded with UV-A rays despite it appearing to be overcast. It will require about a shot glass worth of sunscreen to protect the most sun exposed areas (two tablespoons) which are the face, ears, hands, arms and lips. You should be using an SPF of at least 30 which should be applied 15-30 minutes BEFORE sun exposure. It should be reapplied every two hours and after swimming or heavy perspiration.

- Remember that the sun’s rays are strongest between 10 a.m. and 4:00 p.m.
- Water, sand and, in the winter, even snow reflect UV radiation so be extra careful in those environments.
- Wear protective clothing such as closely woven, natural fiber, long sleeve shirts and pants, sunglasses and wide brimmed hats.
- Do not use tanning beds.
- Do not expect sunscreens to allow you to spend more time in the sun. Long exposure to the sun’s damaging UV rays increases your risk of skin cancer and photo-aging.
- Summer means longer days and more time spent outside. Be prepared. Protect your skin from damage and injury.

What is SPF “Sun Protection Factor” and What is the Daily UV Index?

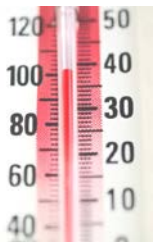


SPF is a laboratory measure of the efficacy of sunscreen and is defined as the amount of ultraviolet radiation needed to produce sunburn on protected skin relative to unprotected skin. It is a measurement of redness or “erythema” and is mainly a measure of UV-B radiation exposure not UV-A (the more damaging type of radiation to deep skin structure) exposure.

The SPF of a product is not related to the duration of UV radiation exposure. The relationship between SPF and UV-B radiation protection is not 1:1 or linear meaning that an SPF 30 does not protect you for twice as long as an SPF 15. For example, an SPF of 15 can filter 94% of the suns UV-B radiation while a SPF of 30 will filter 97%. UV radiation dosage depends on both how long you are out in the sun and how intense the UV radiation is.

The daily UV index is a measure of the level or intensity of UV radiation. It is presented on a scale of 1 (low) to 11+ (extremely high). The US National Weather Service and the US Environmental Protection Agency provide this data which is presented on most weather reports and published in newspapers and on line daily.

Heat Related Illness



It is summer time and the heat and humidity are higher than at any other time of the year, making us more susceptible to heat related illness. Heat related illness occurs when your body cannot keep itself cool. As the air temperature rises, your body cools off by sweating. Sweating occurs when liquid on your skin surface evaporates. On hot humid days, the evaporation of moisture is slowed down by the increased moisture in the air. When sweating cannot cool you down your body temperature rises and you may become ill.

Some people are at greater risk to develop heat related illness than others. This includes people 65 years of age or older, people with mental illness taking medications and the physically ill; especially those with heart disease, high blood pressure and lung disease. Individuals who have suffered from heat exhaustion or heat stroke in the past have an increased risk of developing recurrent heat illnesses.

When your body overheats due to very hot weather and or exercise in the heat, you are susceptible to heat exhaustion. Patients experience heavy sweating, non-specific weakness and or confusion, dizziness, nausea, headache, rapid heartbeat and dark very concentrated urine.

If you experience these symptoms in the heat you need to get out of the heat quickly. Find an air conditioned building and rest in it. If you cannot find an air conditioned building then get into the shade and out of the sun. Start drinking cool liquids (avoid caffeine and alcohol which exacerbate fluid loss and heat related disease). Take a cool shower or bath or apply cool water to your skin. Remove any tight constricting clothing. If you do not feel better within 30 minutes you must contact your physician or seek emergency help.

Untreated or inadequately treated heat exhaustion can progress to heatstroke. Heatstroke occurs when the internal body temperature rises to 104 degrees Fahrenheit or higher. Heatstroke is far more serious than heat exhaustion. It can cause damage to your internal organs and brain and it can kill you. Patients with heatstroke are running a fever of 104 degrees or higher. They complain of severe headaches with a dizzy or lightheaded feeling. Their skin is flushed or red in appearance and they are NOT sweating. Many will be experiencing severe and painful muscle cramps accompanied by nausea and vomiting. Their heartbeats are rapid, their blood pressure low. They may be agitated, anxious and disoriented with some experiencing epileptic type seizures.

Heatstroke is a medical emergency and you must call 911 immediately. While you are waiting for help to arrive remove their clothing after taking the patient to an air conditioned or shady place. Wet the skin with water and fan the skin if possible. If you have access to ice or ice packs place them on the patient's neck, back, groin and armpits while waiting for help.

Heat illness is preventable. When the heat index is over 90 and you must go outside wear lightweight, light-colored, loose fitting clothing. Wear a hat or use an umbrella. Apply sunscreen SPF 30 or greater 15-20 minutes BEFORE going outside. Drink plenty of water before you go out and 2-4 glasses of cool water each hour you are outside working in the heat. Avoid alcohol and caffeine including soda with caffeine. Take frequent breaks every 20 minutes and drink water or sports drink even if you do not feel thirsty. Try to schedule your outside work for before 10 a.m. or after 6 p.m. to avoid peak sun exposure.

If you are being treated for chronic medical conditions ask your doctor how to prevent heat illness. Antihistamines, some blood pressure medications (beta-blockers and vasoconstrictors), diet pills, anti depressants and antipsychotics impair your ability to control your internal body temperature. Water pills to prevent excessive fluid lead to dehydration. Anti-epilepsy and anti-seizure medicines impair your body's ability to regulate internal temperatures as well.

The Heat Index

The heat index combines humidity with the temperature. When you are standing in the sun the heat index is even higher. A heat index of 90 or greater is considered dangerous.

Vacation Dates

I will be on vacation from July 9th – 27th and will not be accessible (by phone or email) during that time. Dr. Richard Levine will be covering for me while I'm gone. Dr. Levine can be reached at 561.368.0191.

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