Sooner or later, somebody's going to find a Snake in Your Grass!

In Central Florida as in most parts of the world, bites by nonvenomous snakes occur far more frequently than by venomous snakes. Since the differentiation is often difficult and the offending snake is not known, victims of snake bite should be brought under a physician's care as quickly as possible. Whenever possible, the offending snake should be killed, as safely as possible, and brought with the victim for positive identification.

The total number of bites per year has changed and the number of deaths is probably negligible. This is probably attributed to quicker response and better treatment of bite victims. If you talk to 20 different people familiar with the dynamics of venomous snake bites, you will probably get 20 different opinions as to how to treat the bite.

An important fact to remember is that one can be bitten by a venomous snake and not be poisoned. In up to 49 percent of the bites inflicted by venomous snakes, no signs or symptoms of poisoning develop. This could be due to the fact that the snake does not always inject venom or, in the case of superficial wounds, the venom does not enter the wound.

The venom is injected through an apparatus consisting of a gland, a duct and one or more fangs located on either side of the head. The size of these structures depends on the size and species of the snake. The venom glands are surrounded by muscles which can be contracted separately or together at will by the reptile to discharge the venom.

The viper (rattlesnakes, cottonmouths and copperheads) fangs are two elongated teeth of the maxillary bones. These bones can be rotated so that the fangs can be moved from their resting positions against the upper jaw, to their biting positions, approximately perpendicular to the upper jaw. The snakes have full control over their fangs, raising or lowering them at will. The two functional fangs are shed periodically and are replaced by reserve fangs.

The fangs of the elapid (coral snakes and cobras) are two enlarged anterior maxillary teeth which are hollow and are fixed in an erect position.

The arbitrary division of venom into such groups as neurotoxins, hemotoxins and cardiotoxins, has led to much misunderstanding and a number of errors in treatment. Neurotoxins can, and often do, have cardiotoxins and hemotoxins in their substance. It should be safe to say that all venom has some reaction characteristics of the other elements.

Venom from vipers causes change in the tissue both at the site and in its proximity, changes in red blood cells, defects in coagulation, injury to the blood vessels; and to a lesser extent, damage to the heart muscle, kidneys and lungs. The venom of the elapid snakes causes serious alterations in sensory and motor functions as well as cardiac and respiratory difficulties.

The gravity of snake-venom poisoning is dependent upon the age and size of the victim; the nature, location, depth and the number of bites; the length of time the snake holds on; the amount of venom injected; the species and size of the offending snake; the condition of the fangs and venom glands; the victim's sensitivity to the venom; the pathogens present in the snake's mouth; and the degree and kind of first aid and subsequent medical care.

The victim may also have other complicating considerations—heart disease, diabetes, epilepsy or special medication may play on the reaction of the bite.

Diagnosis of crotalid (rattlesnake, cottonmouth and copperhead) envenomation is dependent upon the presence of one or more fang marks, immediate and usually progressive swelling, edema and pain. Swelling and edema are usually seen about the injured area within 10 minutes of the bite. Without treatment, swelling progresses rapidly and may involve the entire extremity within one hour. Generally, however, swelling and edema spread more slowly and usually over a period of 8 to 36 hours. The skin appears tense and shiny, vesicles may form within three hours and are generally present by the end of 24 hours. Hemorrhagic vesiculations (bleeding blisters) and petechiae (small, bleeding spots) are common. Pain immediately following the bite is common in crotalid poisoning. Regional lymph nodes may be enlarged, painful and tender.
Snake Myths

Many myths have spawned about snakes and snake bites, most passed down from one generation to the next as fact. These myths originated from observations and are told as they were seen with much color and flair added.

1. MYTH: FLORIDA HAS THE HIGHEST NUMBER OF VENOMOUS SNAKE BITES.
Considering that Florida has the most diverse number of species of snakes in North America and venomous snakes can be found in heavily populated areas of the state, one would expect this to be a true statement. However, we do not have the highest incident of venomous snake bites. Currently, North Carolina is leading the United States in snake bites.

2. MYTH: SNAKES TRAVEL IN PAIRS.
This thought has been around for many years. Nothing could be further from the truth. Snakes do not travel in pairs. They will search each other out during the mating season (usually early spring). At this time, two snakes may be seen together. If one lives in an area of high snake concentration or where food (rats, mice, rabbits, etc.) exist in quantity that may support higher-than-usual populations of snakes, this occurrence may be observed.

3. MYTH: RATTLESNAKES ALWAYS RATTLE BEFORE STRIKING AND MUST BE COILED.
In the wild, rattlesnakes often break off their rattles and are unable to rattle. Coiled is the best, most effective striking position for most snakes, including rattlesnakes. Stretched out straight, however, rattlesnakes can strike a few inches and can also turn and bite.

4. MYTH: SNAKES STALK PEOPLE TO BITE THEM.
Snakes do not stalk people. Snakes do not like people. Persons receiving venomous snake bites usually are trying to kill or capture the snake or accidentally and unknowingly step on or close to a snake.

5. MYTH: OUTDOOR ENTHUSIAST ARE MOST OFTEN VICTIMS OF SNAKE BITE.
This is not necessarily true. Hunters, fishermen, campers, hikers and other outdoor enthusiasts probably place themselves in areas where snakes are more commonly found, but by the nature of their activity they are usually more cautious and aware of the potential dangers and safety measures to follow keeping them from becoming a snakebite victim

The first systemic sign of elapid venom poisoning is usually drowsiness. This is apparent within two hours of the bite. Ptosis, burring of vision and difficulties in speech and swelling may also appear within several hours of the bite.

In closing, any snake bite associated with immediate pain, followed within several minutes by the appearance of swelling and subsequent edema is usually diagnostic of snake venom poisoning by a viper. Elapid envenomation is not so easily diagnosed during the first 10 minutes. Swelling usually appears two to three hours following the bite and tends to be limited to the general area of the bite.

First aid in regard to snake bite and envenomation is as varied as those administering to the victim. Probably the best is to stabilize the victim and transport to the hospital as soon as possible.

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Alaqua Lakes Joins
Audubon Signature Sanctuary Program

Alaqua Lakes, Taylor Woodrow Communities’ newest luxury golf community in Longwood, has been accepted as a registered member of the Audubon International Signature Cooperative Sanctuary Program.

Admission to the Audubon Signature Program is a distinct honor. According to Michael Moser, club operations manager, only eight golf courses worldwide have achieved full certification. The 170-acre golf course at Alaqua Lakes was designed by Tom Fazio and is scheduled to open in September.

Audubon International personnel carefully scrutinize all design and construction plans before development work begins and visit the site regularly to monitor compliance. In addition, the golf course operations must maintain vigorous standards for wildlife management, water quality, integrated pest management (IPM), energy efficiency, waste management and a natural resources management plan that assures a long-term commitment to the environment.

“We’re thrilled,” said Tom Spence, land development manager for Taylor Woodrow at Alaqua Lakes. “The Audubon Signature Program is an important effort that promotes conservation measures which provide large-scale developers with a more environmentally sensitive approach to land management. Taylor Woodrow Communities is a company dedicated to all types of environmental and sustainable resources management is an idea everyone should endorse.”

“The Audubon Signature Program designation is rare because so few golf courses qualify. Tom Spence has spent nearly three years monitoring water quality and wildlife management efforts here,” Moser said. “Alaqua Lakes is a pristine piece of property and we intend to make certain the golf course serves not only as a nurturing habitat for wildlife, birds and native or indigenous plants, but also as a role model for existing and future golf course developers in Central Florida.”

The Audubon Signature Program is the most rigorous — and the most prestigious — of the environmental management programs Audubon sponsors. “They monitor us very closely, literally day by day,” Moser noted. “This program will also allow us the opportunity to work closely with the community. We have ‘adopted’ a local school, Heathrow Elementary, and will spend time educating the children there on the positive effects a golf course has on the environment.”

Adam Feltman is the golf course superintendent at Alaqua Lakes. Prior to coming to Alaqua Lakes, Feltman was heavily involved in the Audubon Cooperative Sanctuary Program at the Champions Club at Summerfield in Stuart.

The Habitat at Valkaria Named Certified Sanctuary

IGM’s The Habitat at Valkaria in Malabar has been named a certified Audubon Cooperative Sanctuary.

Awarded by Audubon International through its Audubon Cooperative Sanctuary System, a course must meet requirements in six categories to qualify for certification: Environmental Planning, Outreach and Education, Wildlife and Habitat Management, Integrated Pest Management, Water Conservation and Water Quality Management.

“We try to create more habitat that already exists for the variety of native birds on the course,” said Bob Marshall, golf course superintendent at The Habitat for IGM. Along with the help of Lynne Walker, assistant golf course superintendent, we managed to achieve certification by limiting the use of chemicals and creating a safe environment for many of our endangered species of birds.” These birds include the Scrub Jay, Bald Eagle and the Sand Hill Crane.

Joellen Zeh, staff ecologist for ACSS praised IGM’s employees for enhancing native plantings, protecting wetlands during construction and involvement in community environmental projects.

Audubon Int’l Launches ‘Project Flight Plan’

Audubon International has announced a new wildlife and habitat initiative for 1998 to foster migratory bird conservation across North America called Project Flight Plan. Throughout this year, Audubon International will be asking people to “pledge” their commitment to enhance and protect habitat for migratory birds by undertaking at least one environmental project and participating in the many featured Project Flight Plan events that will be held throughout the year.

Seventy-five percent of the land in the United States is privately owned. For migratory birds to survive, they must find suitable habitat throughout the year on these private properties.

Project Flight Plan is a focused way for Audubon International to encourage migratory bird conservation with private land managers and homeowners and get them actively protecting, improving and connecting habitat for migratory birds across North America.

In 1866, the original Audubon members pledged their support of bird conservation by refusing to wear hats or clothing adorned with bird plumage. Inspired by the first Audubon movement, Audubon International, through the Audubon Cooperative Sanctuary System, is asking that individuals sign a pledge card and commit to bird conservation and habitat preservation projects.

In return, Audubon International will send individuals a Project Flight Plan decal, educational information on the bird conservation projects chosen and updates on events and progress concerning Project Flight Plan. Although Project Flight Plan participants must sign up for at least one project to help migratory birds, there is no maximum limit on the quantity of projects they can engage in.

Projects such as planting native
The Safe Haven Day in Project Flight Plan is meant to reduce the number of migratory birds killed and maimed as a result of carelessness, inaction and the ignorance of the general public.

Bird hazards include collisions with cars, buildings, windows and power lines; pesticide exposure at feeding grounds in the U.S., Mexico, Central and South America; cat predation; habitat loss and destructing of breeding grounds.

These conditions can be mitigated through environmental stewardship projects through Audubon International and by the following actions such as breaking the reflection on windows with non-reflective coatings or screens, keeping bird feeding areas clean and free of waste and pesticides and not disturbing natural areas during spring and summer months.

"If one-thousand individuals pledged to participate in Project Flight Plan with an average of four projects each, that’s 4000 migratory bird conservation actions taking place on private land!" said Jean Mackay, director of education for Audubon International.

"An individual’s participation in Project Flight Plan can have a significant impact towards migratory bird conservation when added with the hundreds of other Project Flight Plan activities taking place throughout North America. The momentum that is building for this initiative is thrilling and means great things for improving migratory bird populations in North America."

Audubon International will be hosting and promoting events that tie in with Project Flight Plan throughout 1998. Some of the events this year are The Audubon International Golf Course Birdwatching Open (May 9), Safe Haven for Birds Day (June 13) and Plant a-Tree for Birds Week that will run the week of Sept. 26 through...