

SARFORD'S NEWS

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SarStart® for Dogs - A powerful, **natural** supplement for the treatment of canine arthritis and the elimination of disease-causing protozoa

Dr. Richard Ware

According to the 2009/2010 National Pet Owners Survey, 45.6 million households own over 77.5 million dogs. Slightly more than half of those owners consider their dog to be a "member of the family". Pet related expenses have increased every year for the past 15 years by more than \$2 billion dollars per year. It is estimated that in 2010, nearly \$47.7 billion will be spent on pets. Of that \$47.7 billion, a projected \$23.8 billion will be spent on over the counter medicines and veterinary care...nearly half the total amount! It is obvious that pets are important to their owners, who are increasingly trying to provide better nutrition and health care for their loyal companions.

Understanding Canine Arthritis

James Cook, DVM, Ph.D, professor of veterinary medicine and surgery at the University of Missouri, indicated that osteoarthritis affects 20 percent of



middle-aged dogs and 90 percent of older dogs in one or more joints. The Arthritis Foundation agrees, stating that arthritis "is one of the most common sources of chronic pain that veterinarians treat."

Arthritis is the inflammation of a joint, typically resulting from injury, infection, metabolic disturbances, and degenerative or other causes. It is usually characterized by pain, swelling and stiffness in the affected regions.

Symptoms of Arthritis

- Reluctance to walk, run, jump and/or play
- Limping or favoring a limb
- Acting more tired...sleeping more frequently or longer
- Seeming to have stiff or sore joints
- Difficulty rising from a resting position
- Less alert
- Weight gain
- Decreased activity
- Behavior/Attitude changes
- Resisting touch

SarStart® for Dogs is the natural way to safely treat your loyal companion's arthritis and stiff joint problems. **SarStart®** for Dogs is made by extracting steroidal saponins, highly active mole-

cules from the root of the *yucca schidigera* plant.

Steroidal saponins are the precursors to the natural cortisone produced by the adrenal gland. They possess anti-inflammatory properties shared by many of the steroid medications commonly used today, but have none of the side effects. These powerful, anti-inflammatory agents elevate the body's ability to produce natural cortisone and help to block the release of toxins from the intestines that inhibit the normal function of cartilage and contribute to the onset of arthritis and rheumatism.

Protozoal Diseases in Dogs

Protozoa are microscopic, single-celled parasites that live in water, soil and the feces of infected animals. Once ingested, they typically colonize in the digestive tract and blood stream where they

Some Symptoms of Protozoal Infection

- Coughing
- Diarrhea
- Respiratory issues
- Depression
- Fever
- Muscle spasm
- Seizures
- Vomiting
- Blindness
- Weight loss
- Anorexia
- Jaundice

SarStart® FOR DOGS CONTINUED . . .

interfere with body processes and cause illness. In fact, protozoal infections can affect many body systems and be responsible for a wide range of symptoms and diseases (see lists below). Several of these diseases are zoonotic, which means that they can be transmitted from animals to humans. Many of the symptoms listed are usually ascribed to other illness caused by viruses and bacteria, and for that reason can be difficult to diagnose as a protozoal problem. A description of a few of the most common protozoal diseases in dogs is listed below:

- *Giardiasis* – this disease causes poor digestion of fats and carbohydrates and often results in foul-smelling stools and poor animal health
- *Coccidiosis* – this disease in puppies can cause diarrhea, often tinged with blood, as well as dehydration
- *Leishmaniasis* – usually transmitted by a small insect, this causes a lesion on the skin or an internal disease that enlarges and damages the spleen and liver. Can be fatal if not treated.
- *Babesiosis* – this is a malaria-like disease that is spread by tick bites. The tick spreads protozoa that

Some Protozoal Diseases in Dogs

Acanthamebiasis
 Amebiasis
 Babesiosis
 Balantidiasis
 Coccidiosis* (zoonotic)
 Cryptosporidiosis* (zoonotic)
 Cytauxzoonosis
 Hepatozoonosis
 Encephalitozoonosis
 Giardiasis* (zoonotic)
 Leishmaniasis* (zoonotic)
 Neosporosis
 Pneumocystosis
 Toxoplasmosis* (zoonotic)
 Trichomoniasis
 Trypanosomiasis* (zoonotic)

destroy red blood cells and cause weakness, anemia, jaundice, fever and orange-colored urine.

Anti-protozoal action of saponins

The all-natural saponins found in **SarStart®** for Dogs destroy protozoa by binding to and removing cholesterol from the cell membrane, causing it to break open, and allowing the protozoal remains to be eliminated from the body. In fact, this activity is so powerful that a study by McAllister et al. found that yucca saponins were found to be just as effective as the drug metronidazole in destroying Giardiasis-causing protozoa!

A daily dose of these **all-natural** powerful saponins will help improve the quality of life, save money by decreasing vet bills, prevent transmission of these diseases to other family members, and extend the dog's active life.

Here are what some dog owners had to say after giving their dog **SarStart®** for Dogs:

"After giving SarStart® for Dogs to my older dog, he has more energy, more like when he was a puppy."

"Our lab is getting old. He was unable to jump into the back of the car when we were traveling. After giving him SarStart® for Dogs, he jumps into the back of the car without any trouble. SarStart® for Dogs has changed his life."

"My two young hunting dogs were lost for 8 days when they went to play in nearby corn field. It was a hot, humid summer and when I finally found them, they were in terrible condition...full of parasites and ticks, and severely dehydrated. After several trips to the veterinarian, being wormed twice and dipped, they still had loose bowels, a bad hair coat and no appetite. I began to give them SarStart® for Dogs and



within a few days I could see an improvement. Within three weeks, my dogs had normal stools, a shiny hair coat and better appetites. They looked like they were in better condition than before I lost them! I've fed them SarStart® for Dogs ever since."

All-natural **SarStart®** for Dogs is a liquid product in an easy-to-use applicator. Simply squeeze the bottle to fill the dosing reservoir to the appropriate level (based on your dog's weight) and apply directly to the dog's feed. To order **SarStart®** for Dogs, contact your local SarTec representative, or call 800-472-7832.

References

"Early Detection of Osteoarthritis in Dogs Could Open Doors for a Cure", University of Missouri News Release dated June 10, 2009. Article based on interview with James Cook, DVM, Ph.D. (Article link: <http://munews.missouri.edu/news-releases/2009/0610-cook-arthritis-biomarkers.php>)

"Arthritis in Dogs" by The Arthritis Foundation. (Article link: <http://www.arthritis.org/arthritis-dogs.php>)

McAllister TA, Annett CB, Cockwill CL, Olson ME, Yang Y, Cheeke. PR: Studies on the use of *Yucca schidigera* to control giardiasis. *Vet Parasit* 2001, 97:85-99.

2009/2010 National Pet Owners Survey. American Pet Products Association. (Article link: http://www.americanpetproducts.org/pubs_survey.asp)

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SarTec[®] is a family owned and operated corporation located in Anoka, MN. Established in 1983, our mission has been to provide high quality, natural products and service to the agricultural industry. From our equipment to our products, we have a number of ways to help you best reach your goals. Individually we can make a difference; together we can perform miracles.

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SARTEC EMPLOYEE HIGHLIGHT: CARL RAUSCH

This issue's employee highlight is about Carl Rausch. Carl grew up in the paper mill town of Menasha, WI and moved to the Twin Cities in 1991. Carl was welcomed to the Twin Cities with 29 inches of snow that arrived the day before he did (the big Halloween snowstorm of 1991).

Carl is a graduate of the University of Wisconsin at Stevens Point and has a degree in biology and additional education in industrial technology and management science.

Carl joined the SarTec team in February of 2001 and has been involved in quite a few research projects since then; ranging from experimenting with the antiprotozoal effects of saponins to determining the best conditions in which to

grow algae.

Carl is an avid outdoorsman and enjoys archery, hunting, fishing, camping, hiking, boating and studying nature. He enjoys spending time with his wife Paula and children Samuel, Colin and Carly. When time permits, he also likes to cook.

Before joining SarTec, Carl worked as an industrial engineer for a toy company and then a paper mill. After that, he worked in lake & pond management for a number of years and also spent time employed managing odor control and wastewater treatment for hog farms.

When asked how he likes working at SarTec Carl responds "I really enjoy working at SarTec; there's always something new and interesting going on (exploring the frontiers of science) and I work with an excellent group of people". SarTec is fortunate to have an employee like Carl on our team.



Picture: Carl working on some algae experiments in one of the SarTec labs.

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