



## The Latest News in Veterinary Medicine

### 2013 Triennial Heartworm Symposium Findings

In September, the American Heartworm Society's 14th Triennial Heartworm Symposium took place in New Orleans, presenting the world's latest and best information on the many facets of heartworm disease. This cutting-edge knowledge will drive future action by AHS and its board as the Society focuses on practitioner and client outreach and education, funding heartworm research, and building partnerships with other veterinary organizations. Below are the leading topics that were presented:



- Heartworm diagnosis and epidemiology
- Lack of efficacy (LOE) and resistance
- *Wolbachia* and doxycycline
- Feline heartworm disease
- Managing heartworm disease in animal shelters

For more information, visit the American Heartworm Society at [heartwormsociety.org](http://heartwormsociety.org).

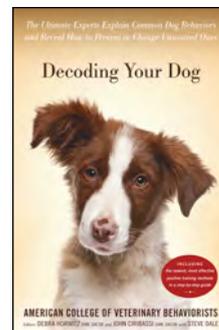
### C.E.T. VeggieDent Tartar Control Chews Receive VOHC Acceptance

Virbac Corporation has announced that their VeggieDent Chews were awarded the Seal of Acceptance in September 2013 after the Veterinary Oral Health Council (VOHC) reviewed trial data. The seal was awarded based on the product's ability to protect against tartar (calculus) build up on canine teeth. VeggieDent Chews are highly palatable, vegetable-based chews that are free of animal protein and wheat gluten. Given once daily, they have been proven to reduce plaque, calculus, and halitosis. For more information, visit [virbacvet.com](http://virbacvet.com) or contact Michael Walsh at 682-647-3546.



### New Book on Dog Behaviors

The American College of Veterinary Behaviorists, a professional organization of veterinarians who have achieved board-certification in the specialty of veterinary behavior, has produced its first book titled *Decoding Your Dog: The Ultimate Experts Explain Common Dog*



*Behaviors and Reveal How to Prevent or Change Unwanted Ones.* The book is edited by Debra Horwitz, DVM, DACVB, and John Ciribassi, DVM, DACVB, with Steve Dale as contributing editor. The insights and advice offered will help individual pet owners, animal professionals, and facilities that care for animals better manage behavior problems and improve animal well-being. This book is available for pre-order online at [dacvb.org](http://dacvb.org) in both hardcover and Kindle editions.

### Therapy Dog Receives 2013 American Humane Association Hero Dog Award

Zoetis Inc, a former business unit of Pfizer Inc, sponsored the annual American Humane Association (AHA) "American Hero Dog" awards. Elle, a pit bull from North Carolina, took home top honors in the therapy dog category from among the eight finalists. The finalists were recognized on a Hallmark Channel broadcast October 30, 2013. Elle's accomplishments include "teaching" children about dog safety and being the star of a new therapy dog reading program, "Tail Wagging Tales," which helps children enjoy books and improve their reading skills. She reaches all ages through regular visits to an elementary school, a middle school, and a retirement home. Elle's charity partner, Hand in Paw, will receive a \$6500 donation to further its work. The public cast more than a million votes to determine the eight finalists from a group of 141 dogs nominated for being "ordinary dogs doing extraordinary things." For more information, visit [zoetis.com/animal-connections-tour](http://zoetis.com/animal-connections-tour).



*Dr. and Mrs. Mike McFarland congratulate Leah Brewer (center) and her dog, Elle, on winning the American Humane Association's American Hero Dog Award. Elle received top honors in the Zoetis-sponsored Therapy Dog category.*

Please send any news, press releases, or information relevant to veterinary professionals to [KSoldavin@todaysveterinarypractice.com](mailto:KSoldavin@todaysveterinarypractice.com) for publication consideration in Today's Veterinary News.

# revolution® (selamectin)

## Topical Parasiticide for Dogs and Cats

### BRIEF SUMMARY:

See package insert for full prescribing information.

### CAUTION:

US Federal law restricts this drug to use by or on the order of a licensed veterinarian.

### INDICATIONS:

Revolution is recommended for use in dogs six weeks of age or older and cats eight weeks of age or older for the following parasites and indications:

#### Dogs:

Revolution kills adult fleas and prevents flea eggs from hatching for one month and is indicated for the prevention and control of flea infestations (*Ctenocephalides felis*), prevention of heartworm disease caused by *Dirofilaria immitis*, and the treatment and control of ear mite (*Otodectes cynotis*) infestations. Revolution also is indicated for the treatment and control of sarcoptic mange (*Sarcoptes scabiei*) and for the control of tick infestations due to *Dermacentor variabilis*.

#### Cats:

Revolution kills adult fleas and prevents flea eggs from hatching for one month and is indicated for the prevention and control of flea infestations (*Ctenocephalides felis*), prevention of heartworm disease caused by *Dirofilaria immitis*, and the treatment and control of ear mite (*Otodectes cynotis*) infestations. Revolution is also indicated for the treatment and control of roundworm (*Toxocara cati*) and intestinal hookworm (*Ancylostoma tubaeforme*) infections in cats.

### WARNINGS:

**Not for human use. Keep out of the reach of children.**

**In humans, Revolution may be irritating to skin and eyes.** Reactions such as hives, itching and skin redness have been reported in humans in rare instances. Individuals with known hypersensitivity to Revolution should use the product with caution or consult a health care professional. Revolution contains isopropyl alcohol and the preservative butylated hydroxytoluene (BHT). Wash hands after use and wash off any product in contact with the skin immediately with soap and water. If contact with eyes occurs, then flush eyes copiously with water. In case of ingestion by a human, contact a physician immediately. The material safety data sheet (MSDS) provides more detailed occupational safety information. For a copy of the MSDS or to report adverse reactions attributable to exposure to this product, call 1-800-366-5288.

Flammable—Keep away from heat, sparks, open flames or other sources of ignition.

**Do not use in sick, debilitated or underweight animals. (see SAFETY)**

### PRECAUTIONS:

Prior to administration of Revolution, dogs should be tested for existing heartworm infections. At the discretion of the veterinarian, infected dogs should be treated to remove adult heartworms. Revolution is not effective against adult *D. immitis* and, while the number of circulating microfilariae may decrease following treatment, Revolution is not effective for microfilariae clearance.

Hypersensitivity reactions have not been observed in dogs with patent heartworm infections administered three times the recommended dose of Revolution. Higher doses were not tested.

### ADVERSE REACTIONS:

#### Pre-approval clinical trials:

Following treatment with Revolution, transient localized alopecia with or without inflammation at or near the site of application was observed in approximately 1% of 691 treated cats. Other signs observed rarely (<0.5% of 1743 treated cats and dogs) included vomiting, loose stool or diarrhea with or without blood, anorexia, lethargy, salivation, tachypnea, and muscle tremors.

#### Post-approval experience:

In addition to the aforementioned clinical signs that were reported in pre-approval clinical trials, there have been reports of pruritus, urticaria, erythema, ataxia, fever and rare reports of death. There have also been rare reports of seizures in dogs. (see **WARNINGS**)

### SAFETY:

Revolution has been tested safe in over 100 different pure and mixed breeds of healthy dogs and over 15 different pure and mixed breeds of healthy cats, including pregnant and lactating females, breeding males and females, puppies six weeks of age and older, kittens eight weeks of age and older, and avermectin-sensitive collies. A kitten, estimated to be 5-6 weeks old (0.3 kg), died 8 1/2 hours after receiving a single treatment of Revolution at the recommended dosage. The kitten displayed clinical signs which included muscle spasms, salivation and neurological signs. The kitten was a stray with an unknown history and was malnourished and underweight (see **WARNINGS**).

**DOGS:** In safety studies, Revolution was administered at 1, 3, 5, and 10 times the recommended dose to six-week-old puppies, and no adverse reactions were observed. The safety of Revolution administered orally also was tested in case of accidental oral ingestion. Oral administration of Revolution at the recommended topical dose in 5- to 8-month-old beagles did not cause any adverse reactions. In a pre-clinical study selamectin was dosed orally to ivermectin-sensitive collies. Oral administration of 2.5, 10, and 15 mg/kg in this dose escalating study did not cause any adverse reactions; however, eight hours after receiving 5 mg/kg orally, one avermectin-sensitive collie became ataxic for several hours, but did not show any other adverse reactions after receiving subsequent doses of 10 and 15 mg/kg orally. In a topical safety study conducted with avermectin-sensitive collies at 1, 3 and 5 times the recommended dose of Revolution, salivation was observed in all treatment groups, including the vehicle control. Revolution also was administered at 3 times the recommended dose to heartworm infected dogs, and no adverse effects were observed.

**CATS:** In safety studies, Revolution was applied at 1, 3, 5, and 10 times the recommended dose to six-week-old kittens. No adverse reactions were observed. The safety of Revolution administered orally also was tested in case of accidental oral ingestion. Oral administration of the recommended topical dose of Revolution to cats caused salivation and intermittent vomiting. Revolution also was applied at 4 times the recommended dose to patent heartworm infected cats, and no adverse reactions were observed.

In well-controlled clinical studies, Revolution was used safely in animals receiving other frequently used veterinary products such as vaccines, anthelmintics, antiparasitics, antibiotics, steroids, collars, shampoos and dips.

**STORAGE CONDITIONS:** Store below 30°C (86°F).

**HOW SUPPLIED:** Available in eight separate dose strengths for dogs and cats of different weights. Revolution for puppies and kittens is available in cartons containing 3 single dose tubes. Revolution for cats and dogs is available in cartons containing 3 or 6 single dose tubes.

NADA 141-152, Approved by FDA.

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## TODAY'S VETERINARY NEWS

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## New Advanced Wound Management Product

PuriCore has launched a new animal health wound irrigant, NovaZo, which mimics the body's own immune response to support natural healing. NovaZo is based on the same technology as PuriCore's human wound care product, Vashe, which has been FDA-approved and used at hospitals and clinics across the U.S. for more than 6 years. NovaZo is safe and effective and does not contribute to the growing issue of antibiotic resistance. It is used in the management of post-surgical incisions; moist dressings; hot spots, bites, and rashes; burn, graft, and flap dressings; and for debridement irrigation and odor control. The product is available for companion animals and horses; safe for use around an animal's mouth, nose, eyes, and ears; non-cytotoxic, non-stinging, and steroid-free. More information on NovaZo is available at [novazo.com](http://novazo.com).



## Clinical Breakthrough to Diagnose Thyroid Disorders in Dogs

Dr. W. Jean Dodds, a leading international thyroid expert, and her clinical research team at Hemolife, Hemopet's diagnostic division, have discovered an important novel diagnostic tool to evaluate thyroid disorders in dogs called the T4:FT4 ratio. The T4:FT4 ratio more accurately diagnoses thyroid dysfunction and related diseases in dogs by determining the ratio between the level of total T4 and its free, unbound fraction. This diagnostic tool provides enhanced specificity for canine thyroid disorders and, most important, allows clinicians to determine whether values of the different thyroid analytes being measured indicate a thyroid disorder and/or another underlying disease. For more information, visit [hemopet.org](http://hemopet.org) and [nutriscan.org](http://nutriscan.org) or contact 714-891-2022.



## Launch of Full Hereditary and Congenital Coverage

Pets Best Insurance has announced that its BestBenefit accident and illness plans have been expanded to include full coverage for hereditary and congenital conditions. Pets Best is currently rolling out the expanded plans across the nation, with full hereditary and congenital coverage now available in 29 states. In addition, Pets Best recently introduced low-cost cancer coverage and feline illness plans, providing pet owners with a wider and more specialized selection of insurance coverage. The Pets Best BestBenefit plans offer comprehensive coverage for accidents and illnesses, with no upper age limits, low deductibles, and reimbursement rates from 70% to 100%. Coverage may vary depending on the pet owner's plan selection and state of residence. For more information about the coverage offered by Pets Best Insurance, visit [petsbest.com](http://petsbest.com).

