

The New York City Veterinarian

October, 2018
Volume 59, No. 3



President's Message

Well, here we are, again, as we find ourselves moving into another season of the year, with the fall and its foliage upon us. I would hope to imagine that everyone had a wonderful and memorable summer, as we embrace for another New York winter.



Our executive board came back from summer break, to undertake several matters which included items, such as, securing future meeting spaces, consulting with our legislative counsel, whom work diligently to monitor and protect our interests with The City Council, and do discuss ideas whereby we could increase both our association membership and board participation.

As always, we very much would like to see new faces become involved in the organization. Hence, we would welcome any members with fresh and imaginative thoughts, to step forward and join the board. Therefore, please keep an eye out, as nomination forms, for board positions, are soon to be emailed. The VMA of NYC Wants You!

With that said, our fall lecture series began with an exciting lecture, from Dr. Steinberg on Cytology, which will be followed up in October with Hip Dysplasia that is to be presented by Dr. Brunke. Then in November, we'll have a lecture on Hepatocutaneous Syndrome, given by Dr. Lotus, which is to be held at The Javits Center in partnership with New York Vet. And for our last lecture of the year, which will be held in conjunction

Presidents message continued next page....

Inside this issue

President's Message	1
Liaison Committee	4
Calendar of Events.....	6
Rabies Updates NYC.....	9
Canine Distemper in Raccoons..	14
Classifieds.....	18

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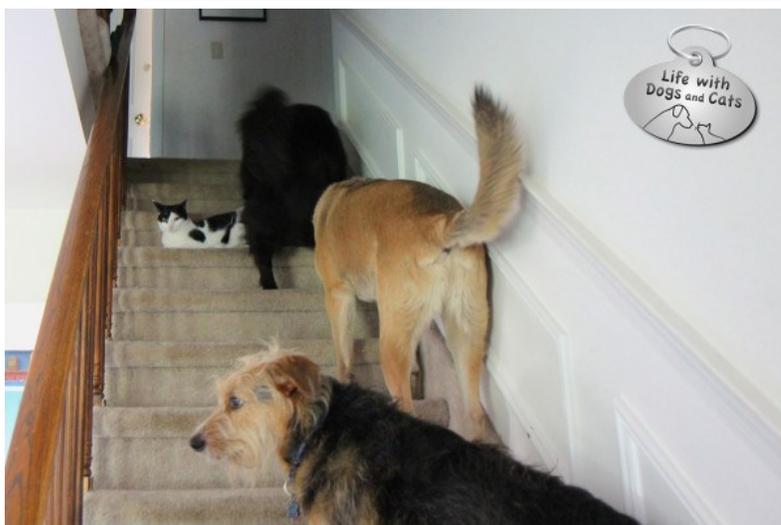
Presidents message continued

with our second annual holiday party, we will have the extraordinary husband and wife team of Dr.'s Mike Lappin and Catriona MacPhail discussing: The Internists versus Surgeons Approach to Disease, Or as I Like to Say, "He Said, She Said!"

I remain confident that our last lecture, to close out the 2018 schedule, will be one to remember. Once again, I hope everyone had a wonderful summer, and I look forward to seeing each and everyone of you at our continuing education meetings.

Be Well,

Tom LoBasso, DVM PC



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Blue Pearl Veterinary Partners

Continuing Education lectures are free and open to all area veterinarians. Registration is required and is done by sending an email to Dr. David Wohlstadter at david.wohlstadter@bluepearlvet.com. Dinner begins at 7:00 pm and the lectures begin at 7:30 pm. BluePearl is approved as a New York State sponsor of CE. Unless otherwise noted, lecturers are given in Queens then Manhattan and then Brooklyn at the addresses listed below.

Brooklyn

32 4th Avenue (at Pacific Street)

Brooklyn, NY 11217

Queens

107-28 71st Road

(between Austin St. & Queens Blvd)

Forest Hills, NY 11375

Manhattan

410 West 55th Street

(between 9th and 10th Avenues)

New York, NY 10019

Liaison Committee

The Liaison Committee interacts with our local specialty hospitals, educational institutions and not-for-profit organizations and lists in this column any information which is relevant for our membership. Specifically, we highlight continuing education which is complementary to our membership. Please contact us if your hospital has information that you would like to share with our membership.



Partners in Practice (PIP) Comprehensive Clinical Conferences Sundays from 9:00 am - 3:00 pm, unless otherwise noted.

- **October 14:** **New Perspective-Preventing Mange, Fleas, Ticks, and Heart worms**, Presented by Dr. Jennifer Rodriguez
- **November 3:** **AMC 4th Annual One Health Conference: Interventional Radiology and Endoscopy.**
Note location -Weill Cornell Medicine, Belfer Research Building. See page 17 for more details
- **November 4:** **Veterinary Technician Lecture**, Presenter TBA
- **December 2:** **Cardiology – New Tips and Therapies**, Presenter TBA

Partners in Practice (PIP) Practical Clinical Workshops Tuesdays from 7:00 pm - 8:30 pm.

- **Oct 23:** Contemporary Issues in Critical Care, Dr. Lisa Bazzle
- **Nov TBD:** Emergency Tips You Can't Live Without, Dr. Joel Weltman



Check the BluePearl website for the most current CE information.

Dinner begins at 7:00 pm, the lecture begins at 7:30 pm. BluePearl is approved as a New York State sponsor of CE. Unless otherwise noted, lecturers are given in Queens, then Manhattan and then Brooklyn, at the addresses listed to the left.



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Calendar of Events

Program Committee - Deirdre Chiamonte, DVM, Sally Haddock, DVM

The schedule of the VMA of NYC Continuing Education meetings for the remainder of the 2018 calendar year is listed below, including the speakers and topics. Refer to the VMA NYC Website and Meeting emails for meeting locations. Dinner will be served at 6:30 pm. Please bring a photo ID with you to allow entry to the facility. Members must register prior to each meeting.

OCTOBER 3, 2018

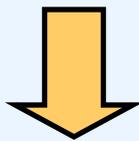
Speaker: Matt Brunke -Veterinary Orthopedic Sports Medicine Group
Topic Orthopedics

NOVEMBER 7, 2018

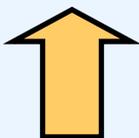
Speaker: John Loftus -Cornell University College of Veterinary Medicine
Hepatocutaneous syndrome

DECEMBER 12, 2018

Speaker: Mike Lappin and Catriona MacPhail -Colorado State University
College of Veterinary Medicine
Topic He Said—She Said



*We are here to serve you!
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topic, please email the VMA of NYC at info@vmanyc.org.*



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IMPORTANT SAFETY INFORMATION: For topical use only. Side effects may include emesis, anorexia, lethargy, and hair changes and skin reactions at the site of application. If ingested, hypersalivation, vomiting and lethargy may be observed. The safety of CENTRAGARD has not been tested in kittens less than 7 weeks of age or less than 1.8 lbs.



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Centragard™ 
(eprinomectin and praziquantel
transdermal solution)

Centragard™

(epinomectin and praziquantel
transdermal solution)

CAUTION: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

Description:

CENTRAGARD is a transdermal solution containing eprinomectin and praziquantel available in 0.3 mL and 0.9 mL unit applicators to treat cats from 1.8 lbs to 33 lbs. Each mL of CENTRAGARD contains 4 mg of eprinomectin and 83 mg of praziquantel, as well as the inactive ingredients (dimethyl isosorbide, glycerol formal, and butylated hydroxytoluene). Eprinomectin belongs to the avermectin class of anthelmintics and is a mixture of homologous components referred to as eprinomectin B1a and B1b. Praziquantel is a pyrazinoisoquinoline anthelmintic.

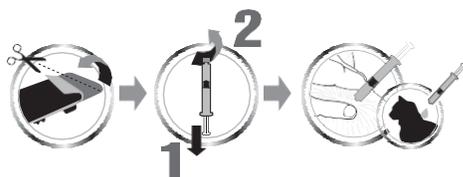
Indications:

CENTRAGARD is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis*, and for the treatment and control of roundworms (adult and fourth stage larval *Toxocara cati*), hookworms (adult and fourth stage larval *Ancylostoma tubaeforme*; adult *Ancylostoma braziliense*), and tapeworms (adult *Dipylidium caninum* and *Echinococcus multilocularis*) in cats and kittens 7 weeks of age and older and 1.8 lbs or greater.

Dosage and Administration:

CENTRAGARD is dosed at a minimum of 0.055 mL/lb (0.12 mL/kg), which delivers a minimum dose of 0.23 mg/lb eprinomectin and 4.55 mg/lb praziquantel. Administer the entire contents of a CENTRAGARD unit applicator topically once a month as specified in the following table:

Cat Weight (lb)	Volume (mL)	Epinomectin (mg)	Praziquantel (mg)
1.8-5.5	0.3	1.2	24.9
5.6-16.5	0.9	3.6	74.7
16.6-22.0	0.3+0.9	4.8	99.6
22.1-33.0	0.9+0.9	7.2	149.4



To apply CENTRAGARD pull back the plunger of the unit applicator slightly and remove the cap. Part the hair in one spot on the midline of the neck between the base of the skull and the shoulder blades, place the tip of the unit applicator on the skin and apply the contents directly on the skin. If the weight of the cat requires a second application, apply the contents in the same manner as described above in the same location. Discard applicator after use.

Heartworm Prevention:

For prevention of heartworm disease, CENTRAGARD should be administered once a month. CENTRAGARD may be administered year round or at a minimum, should start 1 month before the cat's first expected exposure to mosquitoes and continuing at monthly intervals until at least one month after the cat's last exposure to mosquitoes. If a dose is missed and a 30-day interval between doses is exceeded, administer CENTRAGARD immediately and resume the monthly dosing schedule.

When replacing another monthly heartworm preventive product in a heartworm prevention program, the first treatment with CENTRAGARD should be given within one month of the last dose of the former medication. At the discretion of the veterinarian, cats older than 6 months of age may be tested to determine the presence of existing heartworm infection before treatment with CENTRAGARD.

Treatment and Control of Roundworms, Hookworms and Tapeworms:

CENTRAGARD treats and controls roundworms (adult and fourth stage larval *Toxocara cati*), hookworms (adult and fourth stage larval *Ancylostoma tubaeforme*, adult *Ancylostoma braziliense*), and tapeworms (adult *Dipylidium caninum* and *Echinococcus multilocularis*) after a single administration or when given monthly as part of a heartworm prevention program. Cats may be exposed to and can become infected with roundworms, hookworms, and tapeworms throughout the year, regardless of season or climate. Clients should be advised of appropriate measures to prevent reinfection of their cat with intestinal parasites. Because the prepatent period for *E. multilocularis* may be as short as 26 days, cats treated at the labeled monthly intervals may become reinfected and shed eggs between treatments.

Human Warning:

Not for human use. Keep out of reach of children. Avoid contact with the application site for 5 hours following treatment. Wash hands after administering the product. If the product accidentally gets into the eyes, flush thoroughly with water. In case of accidental ingestion, or if skin or eye irritation occurs, contact a poison control center or physician for treatment advice.

Precautions:

Do not administer orally. Cats may salivate excessively and vomit if CENTRAGARD is accidentally administered orally or is ingested through licking/grooming the application site (see ANIMAL SAFETY).

The safety of CENTRAGARD has not been tested in breeding, pregnant or lactating cats.

The safety of CENTRAGARD has not been tested in kittens less than 7-9 weeks of age or weighing less than 1.8 lbs (0.8 kg).

Adverse Reactions:

In a well-controlled field study, emesis, anorexia, lethargy, temporary clumping or spiking of the hair, or mild, transient skin reactions (itching, hair loss) were reported. When cats licked the application site after treatment, temporary excessive salivation was observed. Oral ingestion of CENTRAGARD may also result in hypersalivation, vomiting and/or lethargy. In margin of safety studies, transient neurological signs such as ataxia, disorientation, lethargy, and pupil dilation were observed in some cats. Correct application will minimize the occurrence of such events.

To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, contact Merial at 1-888-637-4251.

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/AnimalVeterinary/-SafetyHealth>.

The Safety Data Sheet (SDS) provides additional occupational safety information. For customer service or to obtain product information, including the SDS, call 1-888-637-4251.

Information for Owner or Person Treating Animal:

Echinococcus multilocularis is a tapeworm found in wild canids and domestic cats. *E. multilocularis* can infect humans and cause serious disease (alveolar hydatid disease). Owners of cats living in areas where *E. multilocularis* are endemic should be instructed on how to minimize their risk of exposure to this parasite, as well as their cat's risk of exposure. Although ML-635 was 100% effective in laboratory studies in cats against *E. multilocularis*, no studies have been conducted to show that the use of this product will decrease the incidence of alveolar hydatid disease in humans. Because the prepatent period for *E. multilocularis* may be as short as 26 days, cats treated at the labeled monthly intervals may become reinfected and shed eggs between treatments.

Mode of Action:

Epinomectin binds to glutamate gated chloride channels that are present in invertebrate nerve and muscle cells and increases the permeability of the cell membrane to chloride ions that triggers hyperpolarization of the nerve or muscle cell resulting in paralysis and death of the parasite.

Praziquantel's mode of action is not precisely known but treated tapeworms undergo muscular paralysis accompanied by a rapid influx of calcium ions and the disruption of the tegument.

Effectiveness:

Effectiveness studies were conducted with an early formulation (ML-635), containing 8.3% fipronil, 0.4% eprinomectin, 8.3% praziquantel, and 10% (S)-methoprene. The doses of eprinomectin and praziquantel in ML-635 are equivalent to the final formulation of CENTRAGARD (epinomectin and praziquantel transdermal solution).

Heartworm Disease Prevention:

In well-controlled laboratory studies, ML-635 provided 100% effectiveness against induced heartworm infections after a single application.

Treatment and Control of Roundworms, Hookworms, and Tapeworms:

In well-controlled laboratory studies, ML-635 provided >90% effectiveness against natural and/or induced roundworm (adult and fourth stage larval *Toxocara cati*); hookworm (adult and fourth stage larval *Ancylostoma tubaeforme*; adult *Ancylostoma braziliense*), and adult tapeworm (*Dipylidium caninum*; *Echinococcus multilocularis*) infections.

Animal Safety:

Margin of Safety Study: A combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene was applied topically to 7 to 9 week old healthy kittens at 1, 3, or 5X the maximum dose (8 cats/group) six times at 28 day intervals. One 5X kitten exhibited ataxia, disorientation, and lethargy for 12 hours and exhibited pupil dilation for 24 hours following the 3rd treatment. This 5X kitten exhibited ataxia, disorientation, and lethargy for 6 hours, and moderate pupil dilation for 24 hours following the 4th treatment, and had pupil dilation following the 5th treatment. Hypersalivation was observed for one hour for one 5X kitten following the 1st treatment and one 3X kitten following the 4th treatment. One 5X kitten had slow pupillary light responses for one day after one treatment and one 3X kitten had slow pupillary light responses for 3 hours after one treatment. One control cat had marked pupil dilation and slow pupillary light responses lasting two hours after one treatment. Immediately post-treatment cats in all groups scratched and groomed the application site.

Study in Heartworm Positive Cats: Three groups (0X, 1X and 3X) of 12 young, adult cats, 4.7 to 6.6 months of age, were experimentally infected with adult heartworms (*D. immitis*) by venous transplantation. All cats were negative for heartworm antibody, antigen and microfilariae prior to transplantation. Two weeks after transplantation, immunoserology verified positive antigen and the presence of microfilaria in all enrolled cats. A combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene was applied topically to cats at 1X or 3X the maximum exposure dose once every 28 days for three consecutive treatments. One cat in the 1X group exhibited cyanotic mucous membranes and tachypnea for 24 hours following the first treatment. The cat recovered and exhibited no abnormal signs following two subsequent treatments. There was no difference between the treatment groups in the number of adult *D. immitis* recovered at the end of the study.

Oral Administration Study: Oral tolerance was evaluated to assess the effects of accidental oral ingestion. Sixteen cats (8 male and 8 female) ranging in age from 9-10 months were studied. Eight cats were orally administered a combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene at 1X the maximum exposure dose; the 8 control cats were sham dosed. All 8 treated cats immediately exhibited hypersalivation after oral administration, and 2 cats vomited and 3 cats were lethargic during the 1-2 hour post-treatment observations. Treated cats continued to hypersalivate and lick lips/mouth for 1-2 hours after oral administration. Cats were monitored for 14 days thereafter, during which one treated cat vomited on Day 12.

Storage Information:

Store at or below 30°C (86°F) with excursions permitted to 40°C (104°F). Protect from light.

How Supplied:

CENTRAGARD is packaged as a single dose in 0.3 mL (for cats 1.8–5.5 lb) and 0.9 mL (for cats 5.6–16.5 lb) applicators.

Each size applicator is available in cartons containing 1, 3 or 6 applications.

NADA 141-492, Approved by FDA

Manufactured by:
Merial, Inc.,
Duluth, GA 30096-4640
USA
Made in France

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Revision date: Feb 2018

Rabies in New York City

Overview and Updates

Throughout the US, different variants of the rabies virus are maintained in their respective vectors, following geographically distinct patterns. The raccoon variant is present along the Atlantic Coast and the bat variant throughout the US except Hawaii. Since the arrival of raccoon rabies in NYC in 1992, it has persisted enzootically, and raccoons remain the primary reservoir species in the City (**Table 1**). Occasionally, rabid raccoons transmit the virus to other wild animals, usually skunks. Historically, most rabid animals have been identified in the Bronx and Staten Island, with isolated reports of rabid raccoons in Queens and Brooklyn. The one exception was the large epizootic of raccoon rabies that occurred in Central Park from 2009 to 2011.

Tables 1. Total Laboratory Confirmed Rabies Cases by Species, NYC 1992-2017

Animal Species	Bronx	Queens	Manhattan	Staten Island	Brooklyn	Total
Raccoon	198	11	145	182	9	545
Skunk	47	0	0	5	0	52
Opossum	1	1	0	3	1	6
Bat	15	5	13	6	6	45
Dog	0	0	0	0	0	0
Cat	5	0	2	8	1	16
Coyote	2	0	0	0	0	2
Groundhog	0	0	0	1	0	1
Total	268	17	160	205	17	667

A much smaller number of rabid bats have been found in all 5 boroughs. Bats are the primary vector of human rabies infections in the US. Dogs and cats are also susceptible to rabies; however, vaccination and animal control have significantly reduced the numbers of rabid dogs and cats both in NYC and throughout the US. Between 1992 and 2017, 667 animals tested positive for rabies, the majority of which were raccoons. No rabid dogs have been reported in NYC since 1954, although dogs infected with the raccoon variant have been reported in neighboring areas outside NYC. Between 1992 and 2017, only 16 rabid cats have been identified in NYC, 15 of which were strays. To date in calendar year 2018 a total of 9 animals have tested positive for rabies; 2 skunks, 3 raccoons, 1 cat, 1 opossum from the Bronx, and 2 raccoons from Staten Island.

Rodents (e.g., squirrels, rats, mice) and members of the rabbit family are not considered to be vectors of rabies. The one exception is the groundhog, which has tested positive for rabies in NYC (one in 2007 on Staten Island) and surrounding areas. Rabies infections in domestic rodents or rabbits should be considered only in unusual circumstances, such as when the animal has a history of a bite wound and has been housed in an outdoor hutch or when a rabies vector species (e.g., raccoon) has been observed in the vicinity.

Rabies Overview and Updates continued page 12....



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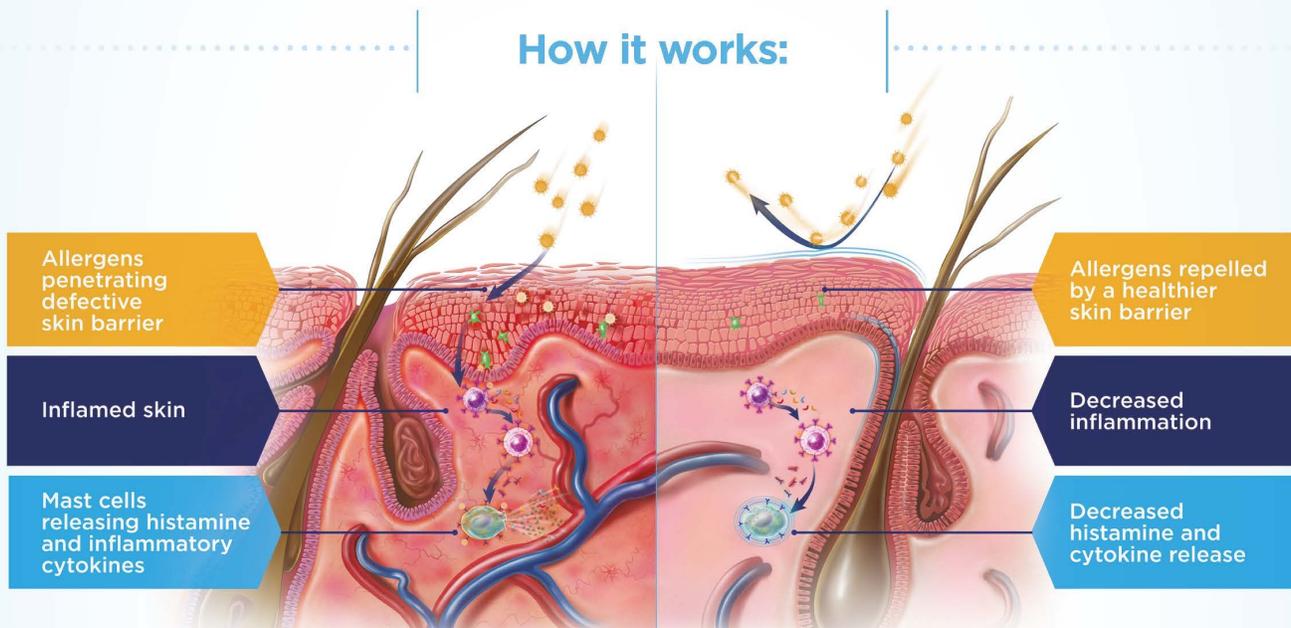


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*RRSP means recommended retail selling price. The retail prices referred to in this document are recommendations only and there is no obligation on the retailer to comply with these recommendations.

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Rabies Overview and Updates continued....

Starting 2014, the NYC Health Department has been assisting researchers at Cornell University to implement a raccoon oral rabies vaccination (ORV) effort in NYC. ORV has routinely been conducted by USDA, Cornell and the New York State Department of Health (NYS DOH) in northern areas of the State as well as historically in Nassau and Suffolk counties to help control rabies among raccoons. ORV is done using the Raboral V-RG[®] bait, which contains a liquid vaccinia-rabies glycoprotein (V-RG) recombinant virus vaccine.

Every year since 2014, ORV baits have been distributed in NYC using two methods; A low-flying helicopter which is flown over several parks, wooded areas and less-populated sections of Staten Island and the Gateway National Recreation Area in Brooklyn and Queens, and, a using fixed bait stations strategically placed in several parks and wooded sections of Brooklyn and Queens. Baiting is done during late summer through fall.

Raccoons are attracted by the brown fish-scented bait, which conceals a small packet of pink liquid vaccine about one square inch in size. There are two ways the baits are packaged. The fishmeal polymer bait (26 grams), distributed by hand, and the coated sachet bait (6 grams), distributed by helicopter, are both brown and consist of fishmeal, fish oil, and wax. The pink, liquid vaccine is contained in a small sachet that is encompassed by the fishmeal attractant. Each labeled bait contains approximately 2 mls of rabies vaccine. The baits are not harmful to wildlife, dogs or cats, but a pet may vomit after eating a large number of them. .

So far, the data are promising. No rabid raccoons were collected in 2017 from any of the three targeted boroughs. However continued surveillance will ultimately determine the effectiveness of the ORV program.





Photo credits: Amiaga Photographers, Inc.



Celebrating Our 1 Year Anniversary at VERG NORTH!

It's been an amazing year thanks to the support of NYC veterinarians! We're extremely passionate about the work we do and making sure our patients receive the best possible care.

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Canine Distemper Virus Identified in Central Park and Pelham Bay Park Raccoons

Monitoring the outbreak in New York City

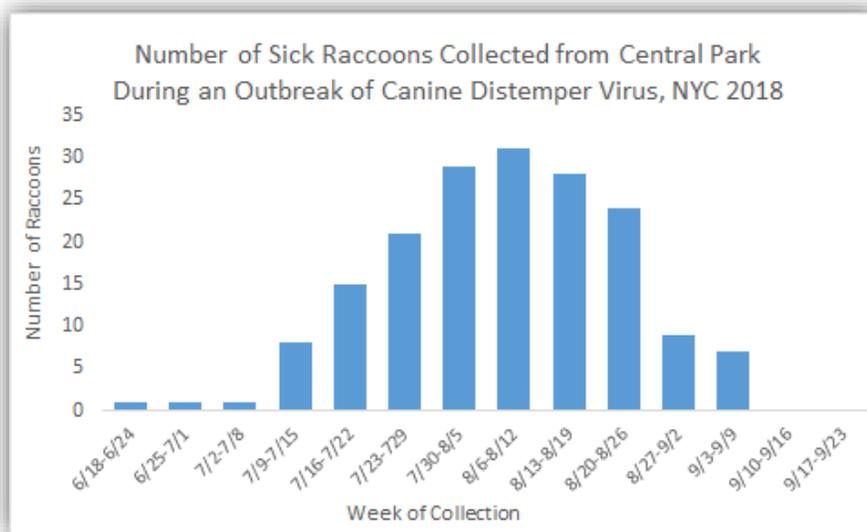
In July of this year, the New York City (NYC) Department of Health and Mental Hygiene (DOHMH) was notified by the NYC Department of Parks and Recreation of several raccoons exhibiting signs of neurological disease in Central Park. Raccoons collected from this area and submitted to the DOHMH Public Health Rabies Laboratory were negative for rabies, however additional testing on specimens forwarded to the New York State Wadsworth Laboratory were positive for canine distemper virus (CDV). Since the initial identification of CDV, a total of 175 sick raccoons have been collected from throughout Central Park, providing evidence of a widespread outbreak. The number of sick raccoons began to decline by September suggesting the outbreak is waning. (See Figure 1).

CDV was also recently identified in raccoons from Pelham Bay Park in the Bronx. Two raccoons exhibiting neurologic illness and collected from the park tested positive for canine distemper virus (CDV) at the New York State Wadsworth Laboratory in early September. Both raccoons tested negative for rabies. The situation in Pelham Bay Park will continue to be monitored.

In both Central and Pelham Bay Parks, the NYC Department of Parks and Recreation issued press releases and posted signs to make dog owners aware of the situation and to advise that dogs stay on leash.

Canine distemper virus is a paramyxovirus and is related to human measles virus. It is most commonly identified in dogs and other canines, but can also affect mustelids such as ferrets, minks, and skunks, and procyonids such as raccoons. It is a highly contagious, systemic, viral disease of dogs with potential gastrointestinal, respiratory and neurological complications. Clinical illness in dogs can vary depending on their age and immune status. Mild illness can include fever, anorexia, fatigue, upper re

Figure 1: Graph of Sick Raccoons Collected from Central Park During the Outbreak of Canine Distemper Virus, NYC 2018



Canine Distemper Virus continued next page....

Canine Distemper Virus continued...

atory illness and oculonasal discharge that may mimic “kennel cough”. Severe systemic manifestations are most common in younger dogs with inadequate immunity. In addition to the signs described, dogs may go on to develop lower respiratory illness, vomiting and a watery and/or bloody diarrhea. Dogs that develop vesicular or pustular skin lesions rarely go on to develop central nervous system disease (CNS), whereas dogs that develop hyperkeratosis of the nasal planum and digital pads usually do have CNS involvement. CNS illness may develop concurrently or 1 to 3 weeks after recovery from systemic illness and is typically progressive. Signs may include myoclonus, ataxia, paresis, hyperesthesia and seizures with “chewing-gum”-like behavior. Infected dogs with minimal clinical illness that develop CNS signs months to years later are described as having old dog encephalitis (ODE).

Infection is spread primarily via respiratory secretions from infected animals, and the virus can be shed for several months. The virus is sensitive to lipid solvents and most disinfectants so routine disinfection is effective in its destruction. It is inactivated by ultraviolet light, heat, and desiccation and is relatively unstable outside the host, although it has been known to survive in affected tissues or secretions for up to 3 hours at room temperature.

Infection can be prevented in dogs through routine vaccination of puppies starting at 6 to 8 weeks of age, using a canine distemper vaccine, and at 2 to 4 weeks intervals until 16 weeks of age. The vaccine is usually given as part of a combination canine vaccine. Booster protocols for older dogs may vary from annually to every three years.

Figure 2: Photograph of raccoon affected with CDV in Chicago



Canine Distemper Virus continued next page....

Canine Distemper Virus continued....

Whole blood in EDTA or a conjunctival or nasal swab placed in viral transport medium can be submitted for PCR testing. If viral transport medium swabs are unavailable, a swab moistened with sterile saline and placed in a sealed sterile tube is a good substitute. Urine can also be submitted for PCR testing. Serologic demonstration of virus-specific IgM antibodies or an increased ratio of CSF to serum virus-specific IgG antibodies can also be used. In dogs with multisystemic signs, an immunofluorescent assay can be conducted on smears of the conjunctiva, trachea, vagina, or other epithelium, or the buffy coat of blood, although results may be negative when the dog is showing only neurologic manifestations and/or when circulating antibody is present.

For antigen detection (FA, PCR, or virus isolation), the optimum time for sample collection is during the height of the febrile response, when nasal discharge is still serous or sero-mucoid. This is also the best time to collect the "acute" sample if paired serology is envisaged. Convalescent serum samples should be collected 2-3 weeks following the acute sample and CSF samples can be collected whenever CNS signs are observed.

Clinical laboratory findings include lymphopenia caused by lymphoid depletion; regenerative anemia and thrombocytopenia may be less consistent findings. Distemper inclusion bodies may be evident in lymphocytes, and less frequently in monocytes, neutrophils, and erythrocytes. Necropsies performed on affected dogs have identified neurologic lesions of leukoencephalomyelitis, upper respiratory tract lesions of conjunctivitis, rhinitis, inflammation of the tracheobronchial tree, and hyperkeratotic lesions of the nasal planum and digital pads. Thymic atrophy has been noted in puppies affected prenatally or neonatally.

Testing is offered at the Cornell University Animal Health Diagnostic Center. For more information on appropriate specimens and submission call the AHDC at 607-253-3900. Treatment involves a regimen of supportive care that may include intravenous fluid therapy, antiemetics, and antibiotics to curb the likelihood of secondary bacterial infection of the respiratory tract. Treatment of neurologic signs may include steroids and anticonvulsants.

Dogs and raccoons infected with canine distemper virus may have a clinical presentation similar to that of rabies. Remember to consider rabies for any animal presenting with an acute, rapidly progressive neurologic illness. Rabid animals have been reported regularly in New York City. For the most recent rabies activity in NYC, visit our website at www.nyc.gov/health/rabies.

The virus is not thought to be transmissible to humans, although general precautions should always be taken when handling any suspicious animals, as infection with rabies may mimic that of canine distemper.

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Full or Part-Time. Veterinarian seeks work at small animal practice in New York City. NY licensed. Contact Eduarda Krieger, DVM at 917-239-3377.

Part-Time or Relief. Veterinarian available in NYC. Please contact drmartinvet@gmail.com.

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Per Diem Veterinarian Available: 39 years of experience. Recently sold my practice after 33 years in the same location. Can perform most routine surgeries. No orthopedics please. Willing to travel up to 40 miles from central Nassau County. Call Paul Fish DVM 516-241-7278 or email PaulFishdvm36@gmail.com.

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Relief Veterinarian. Experienced with excellent medical, surgical and client skills. Contact Dr. Christine Asaro at 631-806-9343 or 718-238-2513 or e-mail: chrisasaaro@hotmail.com

Relief or Per Diem Veterinarian. Available weekdays preferably in NYC. Over 30 years experience, excellent people skills, completed residency in surgery at the AMC in the 80's and good medical skills. Contact Kenneth Fein, DVM at 203-540-7771.

VETERINARIANS NEEDED

ABC Animal Hospital is seeking an experienced per diem veterinarian to add to their staff which is a small clinic located in lower Manhattan. There is room to grow your own clientele, and if wanted, provide mentorship. Responsibilities include seeing patients 2-3 times per week. Hours, pay and practice style are all flexible. They are excited to add to their team.

Animal Care and Control of NYC is seeking full-time, per-diem and on-call veterinarians to work in our Care Centers in Manhattan, Brooklyn and Staten Island. Join a team of dedicated and caring professionals who provide veterinary care for homeless and abandoned animals. You will work with a wide variety of species, medical conditions, emergency and public health issues. Volunteer opportunities are also available. Competitive salary, full benefits. See www.nyacc.org for a full description. Send cover letter and CV to hr@nycacc.org or 212-442-2066.

Animal Clinic of Bay Ridge seeks a full time veterinarian to join our Brooklyn practice. Minimum of two years' experience required. Please contact Adrian Alexandru, DVM at 718-833-0700.

Animal Kind Veterinary Hospital seeks a full time and part time veterinarian to join our team of 9 veterinarians. We are located in the beautiful brownstone neighborhood of Park Slope, Brooklyn, NY. We practice a very team-oriented approach to medicine. Our facility is modern and clean and includes ultrasound, digital radiography and medical records, 24 hour care and much more. We have an excellent support staff including 12 LVTs. Please visit our website, www.animalkind.com, for more details. Please contact Mark Gibson DVM at animalkind@verizon.net if you are interested in working with us.

Animal Medicine & Surgery Clinic. Full-time small animal position needed for 37 year established 3 DVM animal hospital in Brooklyn, New York. Experience preferred and new graduates are welcomed. Strong communication, diagnostic, medical, & surgical skills preferred. Equine work available for interested candidates. Please send resumes to schai4806@aol.com and call (917) 543-7379.

Animal Rescue Fund of the Hamptons (ARF), a leading no-kill shelter on Long Island, seeks a second full-time veterinarian at its state-of-the-art fast paced facility performing surgical procedures including, but not limited to spay/neuter, early S/N, feline TNR, and dentistry; as well as providing general health care and thorough work up of shelter animals. Must be a team-orientated, motivated individual who is compassionate and committed to ARF's mission. Competitive compensation and benefits offered with position, some of which include: 401K, Health Insurance, PTO, CE, Paid professional memberships and licenses. Contact Michele Forrester, Director of Operations. Michele@arfhamptons.org

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²Promotional rate only available with specific five-year prepayment schedule. See your Practice Solutions specialist for the required options. Not eligible with interest-only payment structure. You rate after the promotional period ends will be fixed for the remaining term, up to 15 years. The application must be received between September 17, 2018 through November 30, 2018 and the loan must close by December 31, 2018 to be eligible.
³Bank of America will pay the appraisal fee at the time the commercial real estate loan is closed. Loan must close by January 31, 2019 to be eligible.
⁴For the limited time beginning with applications closed September 10, 2018 and ending with applications closed on or before October 31, 2018, take advantage of an introductory interest rate and appraisal fee waiver if appraisal is ordered by Bank of America on approved Small Business commercial real estate secured loans including Small Business SPA commercial real estate loans closed by January 31, 2019. Loan amounts must be a minimum of \$100,000 and no more than \$2,500,000 to qualify. Excludes Practice Solutions commercial real estate refinances of existing Bank of America loans, certain franchise lending programs, Business Advantage products, construction loans, revolving term loans, and notes, leases, lines of credit, and any product that contains a variable rate. Subject to credit approval. The promotional rate supersedes other rate discounts during the promotional period. Other restrictions may apply.
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Applicants can apply here: <https://aspca.wd1.myworkdayjobs.com/en-US/ASPCAWebsite/job/New-York-NY---92nd-Street/Staff-Veterinarian--ASPCA-Animal-Hospital--AAH-2017-37-1> and email Dr. Frank at kristen.frank@aspca.org with any questions.

Associate veterinarian wanted for active, long established, four doctor, small animal practice in beautiful Park Slope, Brooklyn located across the street from Prospect Park. Devotion to clientele dedicated to optimal care of their furry friends is a must. Extremely well equipped with ultrasound, video endoscopy, digital x-ray, digital dental x-ray, radiosurgery, therapeutic laser and more. Very high quality medicine practiced with 2 referral hospitals within one mile. Ideal candidate will have 2 years of clinical experience and preferably will have done an internship. Generous benefit package with medical insurance, profit sharing and 401k, professional dues, and continuing education conference compensation. Interested applicants contact Dr. Leonard Silverman at 718 768-6125 or email lennyvet@gmail.com.

Austin Veterinary Care. Growing practice in Forest Hills, NY is seeking veterinarians to join our team. New graduates are welcome, Bilingual is a plus. Willing to train with existing veterinarians in holistic and conventional medicine. We will beat any salary and benefits offered in the NY area. Also looking for feline specialists. Our hospitals are equipped with digital x-ray and complete in house blood equipment. Please email resume to nyvetcare@gmail.com.

Ballston Spa Veterinary Clinic is seeking a full time small animal associate veterinarian to join our award winning, 9500 sq. ft. 6 doctor practice. We are fully equipped with a surgical suite with 2 heated tables, extensive orthopedic instrumentation, a dental suite with digital dental radiographs, digital radiographs, all sent out for second opinion to radiologists via telemedicine, up to date ultrasound with designated special procedures room, underwater treadmill with Certified Canine Rehabilitation LVT, and Rehab Program, Warm Laser Therapy Machine, separate dog and cat lobbies, six exam rooms, 3 with lift tables on dog side, 2 exam rooms with windows to children's playroom for clients with pets and kids. Most importantly we have a well-trained fun staff that allows us to focus on excellent medicine and client communication. We also believe that every member of our team should balance work with play, which is why we appreciate our town, set in beautiful Upstate NY! We are minutes from walking trails and creeks to kayak. We are 10 min from Saratoga Springs, home of Skidmore College and all the great restaurants and shops that thrive in a college town. We can hike or ski in the Adirondacks or swim in Lake George, all within an hour. Or you could plan a long weekend to NYC, Boston or Montreal, all between 3 and 4 hrs. away. If this sounds like a good fit to you, please visit our website at www.ballstonspavet.com, or email your resume to bsvcinfo@gmail.com. Ask about our \$5000 signing bonus!



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Bideawee, a leading pet welfare organization serving the metropolitan New York and Long Island, is seeking Associate Veterinarians to join our team in the Manhattan location. Associate veterinarians provide care for dogs and cats in our adoption centers including spay/neuter surgeries/dentals, as well as surgical and medical care for clients of our animal hospitals that is open to the public. Essential job functions include wellness exams, preventative care, management of medical and surgical cases for shelter animals and client-owned animals, performing spay/neuter and other surgery including dental procedures, working with our trainers to manage behavior issues, leading staff and volunteer training sessions in animal care, participation in educational events held for the community or volunteers/donors, some administrative work required. Must have at least 7 years of experience as a veterinarian, NYS veterinary license required, shelter medicine experience preferred, able to perform soft tissue surgeries including but not limited to spays and neuters of dogs and cats, graduate with a DVM or VMD from a U.S. accredited veterinary school required. <https://www.bideawee.org/Job-Opportunities>

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Inwood Animal Clinic Part-time, experienced veterinarian wanted for two to three days a week to add to our remarkable team. We are continuing to grow and pride ourselves for offering the best patient care to a diverse community of people. We are a small private practice located in North Manhattan in New York City. Our modern facility, equipment, and team provide you with everything you need to practice your best medicine. Please send resumes to jen_tsung@yahoo.com or call 718-207-8399.

Kings Bay Veterinary Hospital. Join our modern, well equipped Brooklyn practice. We've been here 4 years and are looking to expand. We will be interviewing for energetic, smart graduates and experienced clinicians for part time work schedules. Compensation will be production based and is negotiable. Practice and live as you dreamed. We supply the facility and staff. You bring your energy and expertise. We can fulfill our goals of balanced work and family life in the great borough of Brooklyn. Contact Dr. Edward Osterman at 718-339-0557 or (c) 917-916-4012.

Middletown Animal Clinic. Full-Time Associate Veterinarian. Experienced Veterinarian needed for Small animal practice located in the northeast Bronx. Great middle class neighborhood close to Westchester county and the Long Island sound. Very well equipped and modern facility with great support staff and established clientele. No after hours emergencies. Medical/dental/vision and 401-k benefits. competitive salary. Two years experience preferred, but will consider all applicants. please contact Dr. Earle at 718 824-8300. or send CV to info@middletownanimalclinic.com.

One Love Animal Hospital in Brooklyn, New York - full-time Associate Veterinarian. Our modern hospital includes ultrasound, digital radiography and medical records, laser, video otoscopy, arthroscopy, laboratory services and best care. Our 9 veterinarians practice a team-oriented approach to medicine. We have an excellent staff support at all three locations. Please feel free to visit our website onelovevet.com. Job Responsibilities—Builds rapport with clients by gathering information and listening to, and empathizing with their concerns, Performs physical examinations and diagnostic/medical/surgical/dental procedures that deliver the highest quality care while minimizing patient stress and discomfort, Communicates with clients on topics such as pet diagnosis, treatment plans, preventive health care, and nutritional needs, Maintains client/patient medical/surgical records and makes certain all necessary logs are kept up-to-date through established protocols, Stays current on new medical information and changes in veterinary medicine, Assists in the development of the paraprofessional team to ensure delivery of the highest quality care and exceptional client service, Presents a positive image of the hospital in the professional community and to the general public. Skills and Basic Qualifications— DVM Licensure in good standing to practice in NY, Commitment to practicing the highest standard of medicine and upholding veterinary code of ethics, Demonstrates excellent verbal and written communication skills, Works collaboratively with hospital team members, Makes decisions confidently and effectively, Manages time and tasks appropriately, Models a professional and courteous manner with staff and clients, Commitment to ongoing educational development and growth.

Prospect Park Animal Hospital. Associate veterinarian wanted for active, long established, four doctor, small animal practice in beautiful Park Slope, Brooklyn located across the street from Prospect Park. Devotion to clientele dedicated to optimal care of their furry friends is a must. Extremely well equipped with ultrasound, video endoscopy, digital x-ray, digital dental x-ray, radiosurgery, therapeutic laser and more. Very high quality medicine practiced with 2 referral hospitals within one mile. Ideal candidate will have 2 years of clinical experience and preferably will have done an internship. Generous benefit package with medical insurance, profit sharing and 401k, professional dues, and continuing education conference compensation. Interested applicants contact Dr. Leonard Silverman at 718 768-6125 or email lennyvet@gmail.com.

Queens : Looking to hire NYST licensed veterinarian for new small animal practice in heart of Queens. Ten minute walk from nearest LIRR station and 15 minute walk from subway. All new modern equipment. FT or PT Call office manager at 347-809-1128

Queens Animal Health: Growing practice in Forest Hills, NY is seeking veterinarians to join our team. New graduates are welcome, Bilingual is a plus. Willing to train with existing veterinarians in holistic and conventional medicine. We will beat any salary and benefits offered in the NY area. Also looking for feline specialists. Our hospitals are equipped with digital x-ray and complete in house blood equipment. Please email resume to nyvetcare@gmail.com.

St Marks Veterinary Hospital has been serving the vibrant East Village and surrounding communities of NYC for 30 years and we are honored to be taking care of New York City's Best Friends. St Marks Vet is seeking a full or part time Associate DVM with enthusiasm, integrity and a strong commitment to veterinary medicine to join our dedicated team. Our hospital is a busy, 5-vet practice which excels in client communication and we put our hearts and souls into our veterinary care. We embrace all pets...dogs, cats as well as avian and exotic species. Our well-equipped hospital has digital and dental radiography, endoscopy, tonometry, surgical laser, in-house laboratory, and more. Our ideal candidate would have strong diagnostic and surgical skills, be self-motivated with strong communication and interpersonal skills, and have high professional standards. If you are interested in applying, please submit your resume to jimma@stmarksvet.com or fax to (212) 475-8351.

CLASSIFIEDS

Urban Vet Animal Hospital. Manhattan Animal Hospital located in Village seeks full time, part time, relief doctor. Experience preferred but new graduate/intern trained considered. Send resume to 212-674-8600, or email to onedogtwo@aol.com.

Wanted: Full time veterinarian for a progressive, well equipped modern small animal veterinary hospital. We have locations in two of the most sought after neighborhoods in Brooklyn. Positions available at both our Williamsburg and Park Slope offices. Available equipment includes in house diagnostic lab, digital x-ray, digital dental x-ray, ultrasound, laparoscopy and endoscopy. Experienced veterinarians and new graduates considered. Flexible hours. Salary and benefits commensurate with experience. Will consider either straight salary or base salary with production bonuses. Please contact Allan Bregman, DVM; Cell 516-456-1209; Google Voice: (516)-495-9838; Fax: (718)-313-0746. www.BregmanVetGroup.com

Williamsburg Veterinary Clinic is looking for an experienced, enthusiastic, and caring Veterinarian to join the team at our brand new, state of the art, 2000 square foot animal clinic located in the heart of Williamsburg, Brooklyn. We are considering Full Time and Part Time Veterinarians to work three to four days per week. Pay is highly competitive and commensurate with experience (2+ years preferred). Williamsburg Vets is run on the latest technology available to small animal clinics. Cloud based practice management software and digital radiography. Dental equipment suite; in house lab; exam room computing for a full service client experience from check-in to check out. Minimal front desk congestion is the goal with privacy of the exam room to serve the client best. Our practice focuses on quality of life and staff interaction. Team development is the key to our success. Empowerment, training, mutual respect are critical components which will be part of our daily lives. Only team excellence can achieve the best of care for pets, which is our ultimate goal.

Compensation & Benefits: Base salary and performance linked incentive compensation structure commensurate with experience and customizable per candidate, Health benefits, 401K, paid vacation, sick leave, continuing education, paid licensing dues. Please send CV to Jobs@Williamsburgvets.com.

Williamsburg Brooklyn Clinic. Part-time or per-diem veterinarian with interest in preventive and shelter medicine needed for one or two days a week. New York State license and prior experience required. Email resume to feltonvet@verizon.net or fax to 718-388-6968.

LVT NEEDED

Queens. Looking to hire NYST licensed veterinarian for new small animal practice in heart of Queens. Ten minute walk from nearest LIR R station and 15 minute walk from subway. All new modern equipment. FT or PT Call office manager at 347-809-1128

Queens Animal Health located in Fresh Meadows, NY is seeking a full-time veterinarian and a licensed technician to join our growing team. New graduates are welcome, bilingual and/or holistic is a plus but not required. Offering a competitive salary + benefits. Please email resume to johnlu808@yahoo.com

FOR SALE OR RENT

Staten Island. Established single doctor small animal veterinary practice for sale in Staten Island, NY 10314. Owner is retiring. Call during the day 718-982-1640

East Village animal hospital with space to rent out to a veterinarian. We have a large commercial 3000 square foot space that is operating and approved for small animal veterinary medicine and surgery in the East Village. Our animal hospital is fully equipped for surgery, x-ray, dentistry, and also contains a pharmacy and pet food shop. We're looking for someone to rent part of our space as we have only two veterinarians and there is space to share. This would be especially useful for a board certified veterinarian looking to build a practice around their specialty and build a clientele base in the East Village as well as veterinarians with mobile clinics who seek a home base. We are happy to discuss different ideas and exchange cases that might be mutually beneficial. Rent will be reasonable and dependent on the number of hours/ space required. If interested, please send your CV and details of what you are interested in to : veterinarianinquiry@gmail.com .

VMA of NYC

The mission of the Veterinary Medical Association of New York City is:

To improve and advance the education of veterinarians and the science of veterinary medicine; to foster and maintain high standards of integrity, honor, courtesy and ethics in the profession; to foster protection of the public health, and enlighten and inform the public in regard to veterinary medicine, science, knowledge and the avoidance of cruelty to animals, wherein it affects the public good and welfare.



Post Office Box 959
New York, NY 10024
Phone: 212-246-0057
Fax: 212-721-1620
E-mail: info@vmanyc.org
Website: www.vmanyc.org