

2nd Quarter 2024
NewfCare:
RESEARCH & RESCUE

YOUR GIFT
THEIR FUTURE



National Rescue Dog Day is May 20th.

Each year, the Newfoundland Club of America Rescue funds veterinary care and other services for Newfoundlands throughout the United States. Newfoundlands are rescued from puppy mills and shelters, and are abandoned or surrendered to the care of NCA rescue teams for a variety of reasons. The rescue volunteers open their hearts to these dogs. Sometimes the volunteers witness some amazing transformations and sometimes their hearts are broken. Regardless they persevere. These dogs are resilient, and just like any Newf they want to be loved by a family.

In 2023 two puppies - "Lucy" and "Lilly" - were surrendered to NCA Rescue. These two 12-week-old puppies needed lifesaving heart surgery. Unfortunately Lilly died several months after her surgery. However Lucy was adopted and is thriving in her new family.

Research News

May is Canine Cancer Awareness Month. We invite you to help improve and extend the lives of dogs by investing in groundbreaking research supported by NCA Charities

**Support Cancer
Research**

Oncology Research Area

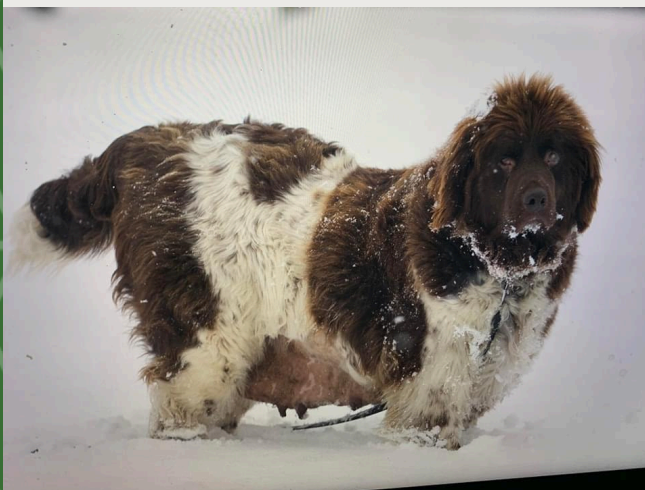
Grant 02880: Enhanced Surgical Margin Imaging with Polarization-sensitive Optical Coherence Tomography in Canine Soft Tissue Sarcoma and Mammary Tumors

Update: For soft tissue sarcomas, researchers have finished all three phases of the project; including enrollments, comparing images & evaluating for accuracy, and training imaging operators. Phase two is nearly complete for mammary tumors. The research team thanks NCA Charities for their support and says **"Advancement of our knowledge of residual cancer cells at the time of surgery will help to improve options and outcomes for dogs."**

Musculoskeletal Research Area



Captain almost starved to death before he was rescued. His ribs could be counted and his hip bones protruded. He spent 21 days in the veterinary clinic receiving care before going to his foster home. Captain is one of those miracle dogs. It was a long road, but he began to eat and gained weight. He was adopted and is living his best life. Without rescue he would have died.



River's story began with an urgent call for help. River's family passed away and her caretaker wanted to ensure River would be in the best hands to face her upcoming medical needs, so they called the NCA Rescue. And what was so urgent and delicate about River's medical condition? Well, she was pregnant... a very, very pregnant senior Newf. Foster care providers with special skills whelped the litter. Now River is happy, healthy and adopted by a great family. While three puppies did not

NEW in 2024! Grant 03227: Genetic Testing for Cruciate Ligament Rupture Using Polygenic Risk Score (PRS) Prediction.

Dr. Peter Muir and the team at the University of Wisconsin-Madison are developing a genetic test to predict risk for canine cruciate ligament rupture, a common orthopedic issue in dogs. The prediction could improve genetic selection in breeding and enable personalized care for high-risk dogs.

Grant 02851-A: Development of Regional Anesthesia Techniques to Treat Chronic Painful Conditions of the Stifle and Elbow in Dogs

Update: The present study aims to identify and develop a reliable technique to extend the duration of sensory blockade for dogs with chronic osteoarthritis. Investigators have developed the pericapsular elbow desensitization (PED) method and performed the PED injections to compare ultrasound-guided and blind techniques. The research team is now evaluating the success rate and extent of nerve staining to complete the study.

Dermatology & Allergic Disease Research Area

Grant 02928: Investigating the Potential of Phage Therapy to Tackle *Staphylococcus pseudintermedius* Infections in Dogs

Outcome: Investigators conducted over 3,200 tests to find phages that could effectively kill *Staphylococcus pseudintermedius*, but none were found. The project has highlighted the difficulty in developing much-needed new treatments and the work has generated new data and tools that significantly improve the understanding of this bacterium and

survive, the other puppies were adopted by wonderful people.

Rescue is about putting a puzzle together.

Each person who meets the rescued dog holds a piece of the puzzle. As one NCA Rescue volunteer explained, "We help animals to trust humans. We show them the world is a safe and wonderful place. We help put the pieces of their life together so they can live a long and healthy life with a wonderful family.

Help us help the amazing dogs that come into our care. Your donation will enable us to continue NCA Rescue work and to provide care and guidance for these wonderful Newfoundlands.

will guide the development of new treatments in the future.

**For nearly 30 years,
NCA Charities has
contributed over
\$400K to 53 grants
and 5 research
program area
sponsorships for
the betterment of
Newfoundland and
canine health!**

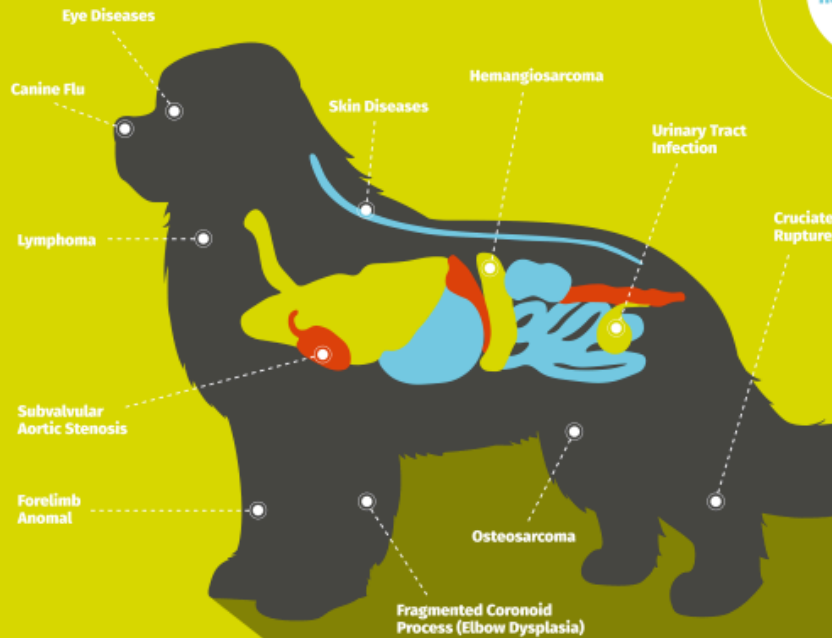
Help NCA Rescue Today.

\$440,000+
Invested

For 24 Years, We've Been Working Together to Improve the Health of Newfoundland Dogs

Your Donations Support Groundbreaking Research

25+
Health Studies
Funded



14 Major Research Areas

ATOPIC DERMATITIS

10% of dogs affected
Result: Potential new therapy targets

CANCER DRUG

Result: Promising drug may work against multiple aggressive cancers, including hemangiosarcoma, melanoma and osteosarcoma

CANINE FLU

80% of exposed animals develop disease
~10% death rate
Result: Vaccine candidates identified for broader protective vaccine

CRUCIATE RUPTURE (CR)

20% of canine lameness due to CR
22% prevalence in Newfoundland breed
Result: Discovery project into the genetic basis of CR

EYE DISEASES

0 effective treatments for retinal dystrophy in dogs 3-6 months of age when cone rod dysplasia first occurs
Result: First genetic tests for cone rod dysplasia and progressive retinal dystrophy

FORELIMB ANOMALY

An often debilitating condition in the breed
Result: Genomic region of interest contains gene involved in bone and cartilage development

FRAGMENTED CORONOID PROCESS (FCP) (ELBOW DYSPLASIA)

4-10 months of age when FCP first occurs
Result: Surgical best practices

HEMANGIOSARCOMA

90% of dogs die within 1-year post diagnosis
Goal: Find new therapy targets

IMMUNE-MEDIATED HEMOLYTIC ANEMIA

#1 immune-mediated disease in dogs
2 weeks—typical survival time following diagnosis >50% mortality rate
Result: New rescue therapy drug

LYMPHOMA

7%-14% of all cancers diagnosed in dogs
Result: Clinical trials of new drugs

OSTEOSARCOMA

10,000 dogs diagnosed each year
Result: Optimized chemotherapy and pain control

PYODERMA

Bacterial pyoderma = most common skin disease affecting dogs
Goal: Novel probiotic therapy

SUBVALVULAR AORTIC STENOSIS (SAS)

19 months—average lifespan with severe disease
Result: Screening test specific for Newfoundland dogs
Goal: Genetic basis of SAS in the breed

URINARY TRACT INFECTIONS

Up to 27% of dogs will develop a UTI
Result: New information on bacterial coinfections and outcomes

About Morris Animal Foundation

Morris Animal Foundation's mission is to bridge science and resources to advance the health of animals. Founded by a veterinarian in 1948, we fund and conduct critical health studies for the benefit of all animals. Learn more at morrisanimalfoundation.org.

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THEIR FUTURE



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Support An Ongoing Genomic Study
into Cruciate Ligament Tears

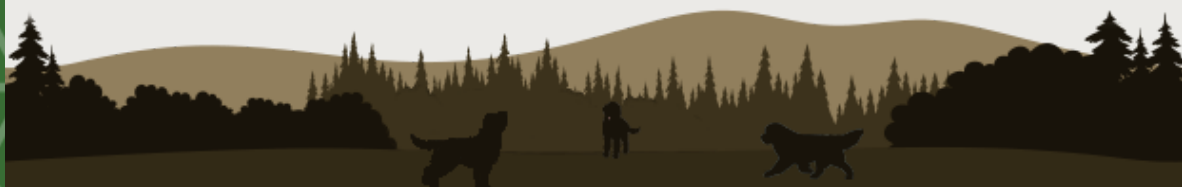


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