

VETERINARY CARDIAC SERVICES AUSTRALIA | NEW ZEALAND

Certificate of Echocardiography

This is to certify that I, Dr Geoff Nicolson BVSc (Hons I) MVETSTUD Dipl. ECVIM-CA (Cardiology), a qualified Specialist Veterinary Cardiologist, have today <u>Tuesday 23rd February 2021</u> examined the following animal for evidence of cardiac disease:

Animal name: "ANDIE" – Career Dogs' Mild Monsoon **Age/DOB:** 09/02/2019 Sex: F **Breed:** Labrador Retriever Colour: Black Microchip no: 953 010 002 791 985 Reg no: N/A Owner: Career Dogs Australia Address: PO Box 620, North Lakes, QLD 4509 *I hereby declare that the animal submitted for examination is the animal described above. Furthermore I declare I am the owner or agent of the dog* Signed: Owner/Agent Date: 23/02/2021 **Echocardiographic Examination** (cardiologist to complete) Findings: Normal echocardiographic structure and function. **LVIDd** 43.6 mm LVIDs 19.9 mm **IVSd** 9.9 mm **LVFWd** 11.8 mm **LA:Ao** 1.18 (norm. < 1.6) Ao Vmax 1.64 m/s (norm. < 2m/s) PV Vmax 1.18 m/s (norm. < 2m/s) MR velocity N/A (norm. 5-6m/s) TR velocity N/A (norm. < 3.0m/s)

Certification Statement

(cardiologist to complete)

The above animal has no echocardiographic evidence of cardiac disease. Fit for breeding.

1) The above animal has no echocardiographic evidence of cardiac disease

- 2) The above animal has echocardiographic changes, which I consider to be of no significance with regards to
- 3) The above animal has an echocardiographic abnormality, which I consider makes it unsuitable for breeding purposes

Dr Geoff Nicolson

BVSc (Hons I) MVETSTUD Dipl. ECVIM-CA (Cardiology) Specialist Veterinary Cardiologist







*For best printing results please use Chrome or IE. Owner's Copy

PennHIP Report

Referring Veterinarian: Dr Jason Beck Clinic Name: Queensland Veterinary

Specialists- Northlakes

Email: northlakes@qldvetspecialists.com.au Clinic Address: 53 Finders Parade

Northlakes, ACT 4509

Phone: 6 (173) 384-2222 Fax:6 (173) 384-2244

Patient Information

Client: DOGS, CAREER Tattoo Num:
Patient Name: ANDIE Patient ID: 129579
Reg. Name: MILD MONSOON Registration Num:

PennHIP Num: 142145 Microchip Num: 953010002791985
Species: Canine Breed: LABRADOR RETRIEVER

Date of Birth: 09 Feb 2019 Age: 15 months

Sex: Female Weight: 60 lbs/27.2 kgs

Date of Study: 19 May 2020 Date Submitted: 18 May 2020 Date of Report: 20 May 2020

Findings

Distraction Index (DI): Right DI = 0.38, Left DI = 0.37.

Osteoarthritis (OA): No radiographic evidence of OA for either hip.

Cavitation/Other Findings: No cavitation present.

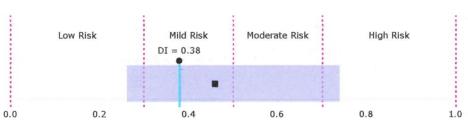
Interpretation

Distraction Index (DI): The laxity ranking is based on the hip with the greater laxity (larger DI). In this case the DI used is 0.38

OA Risk Category: The DI is between 0.31 and 0.49. This patient is at mild risk for hip OA.

Distraction Index Chart:

LABRADOR RETRIEVER



Distraction Index

BREED STATISTICS: This interpretation is based on a cross-section of 35381 canine patients of the LABRADOR RETRIEVER breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.26 - 0.74) for the breed. The breed average DI is 0.46 (solid square). The patient DI is the solid circle (0.38).

SUMMARY: The degree of laxity (DI = 0.38) falls within the central 90% range of DIs for the breed. This amount of hip laxity places the hip at a mild risk to develop hip OA. **No radiographic evidence of OA for either hip**.



Brisbane Veterinary Specialist Centre A Division of Straw Veterinary Support Pty Ltd

ABN 81 688 511 416

OPHTHALMIC EXAMINATION FORM

Owner: Career Dogs Australia Animal Name: Andie				
Address: PO Box 620 North Lakes Queensland 4509 Microchip No: 95301000279 1985				
A.K.C. Reg No:				
ANIMAL: Species: Canine Breed: Labrador Birthdate: 10-02-2019 Coat: colour/type: Black Sex: Female				
"I hereby declare that the animal submitted for examination is the animal described above. Furthermore, I declare I am the owner or agent of the owner for this animal"				
Signed: Owner/Agent: Date: 18/3/20				
PREVIOUS EXAMINATION: Not prevexamined Not affected Undetermined Affected				
Date of previous examination://				
EXAMINATION TECHNIQUE: Direct ophthalmoscopy Indirect ophthalmoscopy Biomicroscopy Other				
MYDRIATIC: Yes No				
REGIONS EXAMINED: LIDS CORNEA IRIS LENS FUNDUS OTHER				
Not affected				
Undetermined/suspicious				
Affected				
INHERITED DISEASE: Yes NO Suspicious Date of examination: \(\frac{8}{3} \) \(\frac{2}{3} \) \(\frac				

Lavelle's Diagnostic Imaging

Dr Roger B Lavelle MA Vet MB MRCVS DVR FANZCVS FAVA (ABN 755 752 02799)

ANKC Canine Hip and Elbow Dysplasia Report #26006

Dog Details

Registered Name	CAREER DOGS MILO MONSOON "ANDIE"			
Registered Number	MC NO: 953010002791985	09 Feb 2019		
Microchip Number	953010002791985			
Breed	Labrador Retriever	F		
Owner Name	Career Dogs			
Owner Registration				
Contact Name	Career Dogs	Email	lauren@careerdogs.com.au	
Contact Address	PO Box 620, NORTH LAKES,			

Referring Veterinarian Details

Veterinarian Name	Dr Jason Beck, Queensland Veterinary Specialists - Northlakes		
Veterinarian Registration		Email	northlakes@qldvetspecialists.com.au

Radiologist Details

Radiologist Name	Dr Roger B Lavelle			
Radiologist Practice	Lavelle's Diagnostic Imaging			
Address	80 Ashworths Rd, Lancefield, VIC			
Telephone Number	61 3 5429 1682	Email	lavellesdiagnosticimaging@gmail.com	

General Details

Date Xrayed	19 May 2020	Film Quality	Satisfactory
Date Received	26 May 2020	Positioning	Satisfactory
Date Returned	26 May 2020		

Examination Results

Hip Joint	Right	Left	Hips Comment	
Norberg Angle	1	1	ON HD & ED ASSE	SSMENT: Low risk training as has mild bilateral ED
Subluxation	1	2		
Cranial acetabular edge	1	1		
Dorsal acetabular edge	0	0		
Cranial effect acetabular rim	0	0		
Acetabular fossa	0	0		
Caudal acetabular edge	0	0		
Femoral head/neck exostosis	0	0	The current five year breed average for the Labrador Retriever is 7.82 and the median is 6.00.	
Femoral head re-contouring	0	0		
Total	3	4	Total Score	7

	Mm of change	Grade	UAP	Comment
Right elbow	0.5	1	No	
Left elbow	< 0.5	1	No	

Payment Details Electronic Transfer: Account Name: Lavelles Diagnostic Imaging – BSB 063 541 Account No: 10608568 [] or Cheque []. Results available when payment received.

R. B. hauelle

MA Vet MB MRCVS DVR FANZCVS FAVA

DISCLAIMER OF LIABILITY - No liability will be accepted for any circumstances of eye conditions not mentioned in this report which manifests after the date of this report. DISCLAIMER OF LIABILITY TO THIRD PARTIES – This report is made solely for the use and benefit of the owner named herein and no liability or responsibility whatsoever is accepted for any third party who may rely upon this report wholly or in part. Any third party acting or relying on this report wholly or in part does so at their own risk. ** Indicates elbows were not examined.

GENETIC ANALYSIS REPORT



OWNER'S DETAILS

Lauren Elgie

35 WALLAROO CIRCUIT NORTH LAKES

BRISBANE

QLD 4509 Australia

COLLECTION DETAILS

Case Number : 20K31204

Date of Test : 10th Jun : 2020

Collected By

Approved Collection: NO

ANIMAL'S DETAILS

Registered Name CAREER DOGS' MILD

MONSOON .

Pet Name : ANDIE

Registration Number:

Breed : Labrador Retriever
Microchip Number : 953010002791985
Sex : Intact Female
Date of Birth : 9th Feb 2019

Colour : BLACK

Sample with Lab ID Number 20K31204 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

GENETIC ANALYSIS SUMMARY

TESTS REPORTED

RESULT 1

Musculoskeletal - Associated with muscles, bones and associated structures

CENTRONUCLEAR MYOPATHY (LABRADOR RETRIEVER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED]

MYOTUBULAR MYOPATHY X-LINKED (LABRADOR RETRIEVER

TYPE)

SKELETAL DYSPLASIA 2 (MILD DISPROPORTIONATE

DWARFISM)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Haemolymphatic - Associated with the blood and lymph

CONGENITAL MACROTHROMBOCYTOPENIA

ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Nervous system / Neurologic - Associated with the brain, spinal cord and nerves

CONGENITAL MYASTHENIC SYNDROME (LABRADOR NEGATIVE / CLEAR [NO VARIANT DETECTED]

RETRIEVER TYPE)

DEGENERATIVE MYELOPATHY

EXERCISE INDUCED COLLAPSE (RETRIEVER TYPE)

NARCOLEPSY (LABRADOR)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Urinary system / Urologic - Associated with the kidneys, bladder, ureters and urethra

CYSTINURIA (SLC3A1) LABRADOR RETRIEVER TYPE NEGATIVE / CLEAR [NO VARIANT DETECTED]

HYPERURICOSURIA NEGATIVE / CLEAR [NO VARIANT DETECTED]

Dermatologic - Associated with the skin

HEREDITARY NASAL PARAKERATOSIS/DRY NOSE (LABRADOR

RETRIEVER TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Ophthalmologic - Associated with the eyes and associated structures

MACULAR CORNEAL DYSTROPHY (LABRADOR TYPE)

PROGRESSIVE ROD CONE DEGENERATION (PRCD) - PRA

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Metabolic - Associated with the enzymes and metabolic processes of cells

MALIGNANT HYPERTHERMIA

NEGATIVE / CLEAR [NO VARIANT DETECTED]

PYRUVATE KINASE DEFICIENCY (LABRADOR TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

¹ **Please Note:** This is a summary disease and trait report. To view more details on each test, including a DNA profile, please log in to your account and view the detailed single DNA report.

Trait (Associated with Phenotype)

A LOCUS (FAWN/SABLE;TRI/TAN POINTS)

BROWN (345DELPRO) DELETION

BROWN (GLNT331STOP) STOP CODON

BROWN (SER41CYS) INSERTION CODON

D (DILUTE) LOCUS

DILUTE D2 VARIANT (CHOW CHOW TYPE)

E LOCUS - (CREAM/RED/YELLOW)

K LOCUS (DOMINANT BLACK)

LONG HAIR GENE (CANINE C95F)

at/a - TRI COLOUR / TAN POINTS CARRIES SOLID COLOUR/BICOLOUR

Bd/Bd - DOES NOT CARRY BROWN or CHOCOLATE [DELETION]

BS/BS - DOES NOT CARRY BROWN or CHOCOLATE [STOP CODON]

BC/BC - DOES NOT CARRY BROWN or CHOCOLATE [INSERTION] D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL

 $\mathsf{D}^2/\mathsf{D}^2$ - NO COPY OF d2 ALLELE (DILUTE) - PIGMENT IS NORMAL

E/e - BLACK CARRIES EXTENSION

[YELLOW/WHITE/APRICOT/RUBY/RED]

K/K - DOMINANT BLACK - SOLID [WILL NOT BE BRINDLED or

EXPRESS AGOUTI]

NEGATIVE - NOT SHOWING THE PHENOTYPE

RESULTS REVIEWED & CONFIRMED BY:

Dr. Noam Pik BVSc, BMVS, MBA, MACVS



George Sofronidis BSc(Hons)

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Authentication Code



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EXPLANATION of RESULT TERMINOLOGY

The terms below are provided to help clarify certain results phrases on your genetic report. The phrases below are those as reported by Orivet and may vary from one laboratory to the other.

NEGATIVE / CLEAR [NO VARIANT DETECTED]

No presence of the variant (mutation) has been detected. The animal is clear of the disease and will not pass on any disease-causing mutation.

CARRIER [ONE COPY OF THE VARIANT DETECTED]

This is also referred to as HETEROZYGOUS. One copy of the normal gene and copy of the affected (mutant) gene has been detected. The animal will not exhibit disease symptoms or develop the disease. Consideration needs to be taken if breeding this animal - if breeding with another carrier or affected or unknown then it may produce an affected offspring.

POSITIVE / AT RISK [TWO COPIES OF THE VARIANT DETECTED]

Two copies of the disease gene variant (mutation) have been detected also referred to as HOMOZYGOUS for the variant. The animal may show symptoms (affected) associated with the disease. Appropriate treatment should be pursued by consulting a Veterinarian.

POSITIVE HETEROZYGOUS [ONE COPY OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE ONE COPY or POSITIVE HETEROZYGOUS. This result is associated with a disease that has a dominant mode of inheritance. One copy of the normal gene (wild type) and affected (mutant) gene is present. Appropriate treatment should be pursued by consulting a Veterinarian. This result can still be used to produce a clear offspring.

POSITIVE HOMOZYGOUS [TWO COPIES OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE HOMOZYGOUS. Two copies of the disease gene variant (mutant) have been detected and the animal may show symptoms associated with the disease. Please Note: This disease has dominant mode of inheritance so if mated to a clear animal ALL offspring with be AFFECTED – HETEROZYGOUS ONE COPY.

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its parentage verified by DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information together with the history submitted for the parents excludes this animal from having this disease. The controls run confirm that the dog is NORMAL for the disease requested.

NORMAL BY PEDIGREE

The sample submitted has had its parentage verified by Pedigree. The pedigree has been provided and details (genetic testing reports) of the parents have been included. Parentage could not be determined via DNA profile as no sample was submitted.

NO RESULTS AVAILABLE

Insufficient information has been provided to provide a result for this test. Sire and Dam information and/or sample may be required. This result is mostly associated with tests that have a patent/license and therefore certain restrictions apply. Please contact the laboratory to discuss.

INDETERMINABLE

The sample submitted has failed to give a conclusive result. This result is mainly due to the sample failing to "cluster" or result in the current grouping. A recollection is required at no charge.

DNA PROFILE

Also known as a DNA fingerprint. This is unique for the animal. No animal shares the same DNA profile. An individual's DNA profile is inherited from both parents and can be used for verifying parentage (pedigrees). This profile contains no disease or trait information and is simply a unique DNA signature for that animal.

PARENTAGE VERIFICATION

QUALIFIES/CONFIRMED or DOES NOT QUALIFY/EXCLUDED

Parentage is determined by examining the markers on the DNA profile. A result is generated and stated for all DNA parentage requests. Parentage confirmation reports can only be generated if a DNA profile has been carried out for Dam, Offspring and possible Sire/s.

PENDING

Results for this test are still being processed. Some tests are run independently and are reported at a later date. When completed, the result will be emailed.

APPROVED COLLECTION METHOD (NO)

The sample submitted for testing HAS NOT met the requirements recommended by member bodies for the DNA collection process.

TRAIT (PHENOTYPE)

A feature that an animal is born with (a genetically determined characteristic). Traits are a visual phenotype that range from colour to hair length, and also includes certain features such as tail length. If an individual is AFFECTED for a trait then it will show that characteristic eg. AFFECTED for the B (Brown) Locus or bb will be brown/chocolate.

POSITIVE - SHOWING THE PHENOTYPE

The animal is showing the trait or phenotype tested.

CLARIFICATION OF GENETIC TESTING

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health. However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

- 1) Some diseases may demonstrate signs of what Geneticists call "genetic heterogeneity". This is a term to describe an apparently single condition that may be caused by more than one mutation and/or gene.
- 2) It is possible that there exists more than one disease that presents in a similar fashion and segregates in a single breed. These conditions although phenotypically similar may be caused by separate mutations and/or genes.
- 3) It is possible that the disease affecting your breed may be what Geneticists call an "oligogenic disease". This is a term to describe the existence of additional genes that may modify the action of a dominant gene associated with a disease. These modifier genes may for example give rise to a variable age of onset for a particular condition, or affect the penetrance of a particular mutation such that some animals may never develop the condition.

The range of hereditary diseases continues to increase and we see some that are relatively benign and others that can cause severe and/or fatal disease. Diagnosis of any disease should be based on pedigree history, clinical signs, history (incidence) of the disease and the specific genetic test for the disease.

Penetrance of a disease will always vary not only from breed to breed but within a breed, and will vary with different diseases. Factors that influence penetrance are genetics, nutrition and environment. Although genetic testing should be a priority for breeders, we strongly recommend that temperament and phenotype also be considered when breeding.

Orivet Genetic Pet Care aims to frequently update breeders with the latest research from the scientific literature. If breeders have any questions regarding a particular condition, please contact us on (03) 9534 1544 or admin@orivet.com and we will be happy to work with you to answer any relevant questions.

This report has been generated by Orivet Genetic Pet Care (Case Number: 20K31204)