

PennHIP Report

Referring Veterinarian: Dr Baron Jonsson	Clinic Name: Kedron Vet Clinic
Email: info@kedronvet.com.au	Clinic Address: 77 Leckie Rd Kedron, QLD 4031
	Phone: 6 (173) 857-8211
	Fax: 6 (173) 857-1781

Patient Information

Client: Elgie, Lauren	Tattoo Num:
Patient Name: Career Dogs' Emma's Legacy	Patient ID: K10217281-5
Reg. Name: Career Dogs' Emma's Legacy	Registration Num:
PennHIP Num: 154368	Microchip Num: 953010004213896
Species: Canine	Breed: LABRADOR RETRIEVER
Date of Birth: 22 Nov 2019	Age: 16 months
Sex: Female	Weight: 66.8 lbs/30.3 kgs
Date of Study: 16 Mar 2021	Date Submitted: 21 Mar 2021
Date of Report: 23 Mar 2021	

Findings

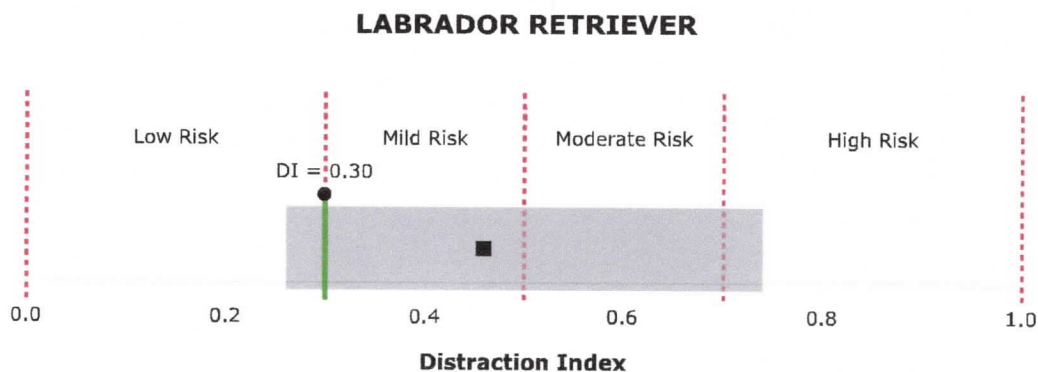
Distraction Index (DI): Right DI = 0.28, Left DI = 0.30.
 Osteoarthritis (OA): **No radiographic evidence of OA for either hip.**
 Cavitation/Other Findings: No cavitation present.

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 0.30.

OA Risk Category: The DI is less than or equal to 0.30. This patient is at minimal risk for hip OA.

Distraction Index Chart:



BREED STATISTICS: This interpretation is based on a cross-section of 36591 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 (0.30).

SUMMARY: The degree of laxity (DI = 0.30) falls within the central 90% range of DIs for the breed. This amount of hip laxity places hip at a minimal risk to develop hip OA. **No radiographic evidence of OA for either hip.**



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 Tuesday 23rd February 2021 examined the following animal for evidence of cardiac disease:

Animal name: "EMMY" – Career Dogs' Emma's Legacy

Age/DOB: 22/11/2019

Sex: F

Breed: Labrador Retriever

Colour: Black

Reg no: N/A

Microchip no: 953 010 004 213 896

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 (trace MR/TR).

LVIDd 40.3 mm

LVIDs 27.8 mm

IVSd 10.3 mm

LVFWd 12.5 mm

LA:Ao 1.24 (norm. < 1.6)

Ao Vmax 1.38 m/s (norm. < 2m/s)

PV Vmax 1.26 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 breeding

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

OPHTHALMIC EXAMINATION FORM

Owner: Career Dogs Australia Animal Name: Emmy

Address: PO Box 620 North Lakes Queensland 4509

Microchip No: 953010004213896

ANIMAL: Species: Canine Breed: Labrador Birthdate: 22-11-2019

Coat: colour/type: Black Sex: Female

PREVIOUS EXAMINATION: Not prev examined 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: 3/3/2021

Should be re-examined: ___ Months ___ Yearly SIGNED *Anna Olych*

-

OWNER

Lauren Elgie

35 WALLAROO CIRCUIT, NORTH
LAKES, BRISBANE, QLD, 4509, Australia

Membership Number : 2019
Member Body/Breed Club : Orivet Breeders Club



GENETIC SUMMARY REPORT

Accredited and Compliant with



IPFD  Harmonization of Genetic Testing for Dogs
DogWellNet

OWNER'S DETAILS



Name : Lauren Elgie
Address : 35 WALLAROO CIRCUIT, NORTH LAKES, BRISBANE, QLD, 4509, Australia

ANIMAL'S DETAILS

Registered Name : CAREER DOGS' EMMA'S LEGACY
Pet Name : EMMY
Registration Number :
Breed : Labrador Retriever
Microchip Number : 953010004213896
Sex : Female
Date of Birth : 22nd Nov 2019
Colour : BLACK

SAMPLE COLLECTION DETAILS

Case Number : 21B31246
Collected By :
Approved Collection : NO
Sample Type : SWAB

TEST DETAILS

Test Requested : Labrador Retriever - Full Breed Profile
Pet Name : EMMY
Date of Test : 14th May 2021

Sample with Lab ID Number 21B31246 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

RESULTS REVIEWED AND CONFIRMED BY

George Sofronidis BSc (Hons)

Dr Noam Pik BVSc, MAVS





ORIVET GENETIC SUMMARY REPORT

ANIMAL'S DETAILS

Registered Name :	CAREER DOGS' EMMA'S LEGACY
Pet Name :	EMMY
Registration Number :	
Breed :	Labrador Retriever
Microchip Number :	953010004213896
Sex :	Female
Date of Birth :	22nd Nov 2019
Colour :	BLACK

TESTS REPORTED

RESULT

Diseases

Centronuclear Myopathy (Labrador Retriever Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Congenital Macrothrombocytopenia	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Congenital Myasthenic Syndrome (Labrador Retriever Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Cystinuria (SLC3A1) Labrador Retriever Type	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Degenerative Myelopathy	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Elliptocytosis B-spectrin (Labrador Retriever/Poodle Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Exercise Induced Collapse (Retriever Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Hereditary Nasal Parakeratosis/Dry Nose (Labrador Retriever Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Hyperuricosuria	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Macular Corneal Dystrophy (Labrador Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Malignant Hyperthermia	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Myotubular Myopathy X-Linked (Labrador Retriever Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Narcolepsy (Labrador)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Progressive Rod Cone Degeneration (prcd) - PRA	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Pyruvate Kinase Deficiency (Labrador Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Skeletal Dysplasia 2 (Mild Disproportionate Dwarfism)	NEGATIVE / CLEAR [NO VARIANT DETECTED]

Traits

E Locus - (Cream/Red/Yellow)	E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE
Brown (345DELPRO) Deletion	Bd/Bd - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]





ORIVET GENETIC SUMMARY REPORT

TESTS REPORTED	RESULT
Traits	
Brown (GLNT331STOP) Stop Codon	B _s /B _s - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON]
Brown (SER41CYS) Insertion Codon	B _c /b _c - CARRIER OF BROWN/LIVER/RED/CHOCOLATE [INSERTION]
Liver [TYRP1] (Lancashire Heeler Type)	Be/Be - DOES NOT CARRY BROWN/LIVER [TYRP1]
D (Dilute) Locus	D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL
Dilute D2 Variant (Chow Chow Type)	D2/D2 - NO COPY OF d2 ALLELE (DILUTE) - PIGMENT IS NORMAL
K Locus (Dominant Black)	KB / k _v or k _{br} - ONE COPY DOMINANT BLACK (KB) and ONE COPY OF NON-BLACK (k _v) dog MAY be brindled
A Locus (Fawn/Sable;Tri/Tan Points)	a _t /a _t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]
Long Hair Gene (Canine C95F)	NEGATIVE - NOT SHOWING THE PHENOTYPE





GLOSSARY OF GENETIC TERMS (RESULTS)

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.

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.



GLOSSARY OF GENETIC TERMS (RESULTS)

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.

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 hairlength, 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.

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.

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 #31615

Dog Details

Registered Name	CAREER DOGS EMMAS LEGACY		
Registered Number	M/C NO: 953010004213896	DOB	22 Nov 2019
Microchip Number	953010004213896		
Breed	Labrador Retriever	Sex	F
Owner Name			
Owner Registration			
Contact Name	Elgie, Lauren	Email	lauren@careerdogs.com.au
Contact Address	PO Box 620, NORTHLAKES, QLD		

Referring Veterinarian Details

Veterinarian Name	Dr Baron Johnsson, Kedron Veterinary Clinic		
Veterinarian Registration		Email	info@kedronvet.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	22 Mar 2021	Film Quality	Satisfactory
Date Received	22 Mar 2021	Positioning	Satisfactory
Date Returned	22 Mar 2021		

Examination Results

Hip Joint	Right	Left	Hips Comment	
Norberg Angle	**	**		
Subluxation	**	**		
Cranial acetabular edge	**	**		
Dorsal acetabular edge	**	**		
Cranial effect acetabular rim	**	**		
Acetabular fossa	**	**		
Caudal acetabular edge	**	**		
Femoral head/neck exostosis	**	**		
Femoral head re-contouring	**	**	The current five year breed average for the Labrador Retriever is 8.16 and the median is 6.00.	
Total	**	**	Total Score	**

Elbow Joint	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.



Dr Roger B Lavelle
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.