

## PennHIP Report

Referring Veterinarian: Dr Jason Beck	Clinic Name: Queensland Veterinary Specialists- Northlakes
Email: northlakes@qldvetspecialists.com.au	Clinic Address: 53 Finders Parade Northlakes 4509
	Phone: 6 (173) 384-2222
	Fax: 6 (173) 384-2244

## Patient Information

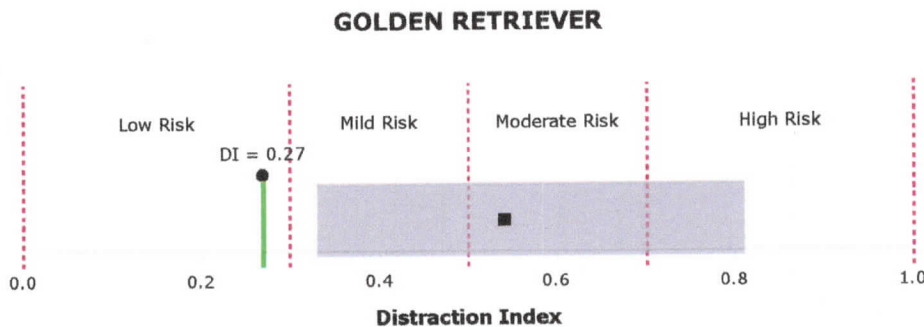
Client: CAREER DOGS', AUSTRALIA	Tattoo Num:
Patient Name: MEMPHIS	Patient ID: 118549
Reg. Name: CAREER DOGS' QUEEN	Registration Num:
PennHIP Num: 134267	Microchip Num: 953010002762490
Species: Canine	Breed: GOLDEN RETRIEVER
Date of Birth: 19 Aug 2018	Age: 12 months
Sex: Female	Weight: 69.7 lbs/31.6 kgs
Date of Study: 29 Aug 2019	Date Submitted: 29 Aug 2019
Date of Report: 29 Aug 2019	

## Findings

Distraction Index (DI): Right DI = 0.26, Left DI = 0.27.  
 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 0.27.  
 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 20243 canine patients of the GOLDEN RETRIEVER breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.33 - 0.81) for the breed. The breed average DI is 0.54 (solid square). The patient DI is the solid circle (0.27).

**SUMMARY:** The degree of laxity (DI = 0.27) ranks the hip within the tightest 5% of DIs for the breed. This amount of hip laxity places the hip at a minimal risk to develop hip OA. **No radiographic evidence of OA for either hip.**

# OPHTHALMIC EXAMINATION FORM

Owner: Career Dogs Australia

Animal Name: Memphis

Address: PO Box 620 North Lakes Queensland 4509

Microchip No: 953010002762490

ANIMAL: Species: Canine Breed: Golden Retriever Birthdate: 19-08-2018

Coat: colour/type: Gold 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

*perinudeal rings  
both lenses*

INHERITED DISEASE:  Yes  NO  Suspicious Date of examination: 5/3/2021

Should be re-examined: \_\_\_ Months \_\_\_ Yearly SIGNED *[Signature]*

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# LAVELLE'S DIAGNOSTIC IMAGING

RB LAVELLE MA Vet MB MRCVS DVR FANZCVS FAVA

ABN755 75202799

## Canine Hip & Elbow Dysplasia Evaluation Report

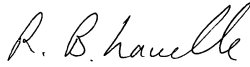
KC Name: CAREER DOGS' QUEEN	Identification No: 9530100027622490
KC Reg No:	Pet Name: QUEEN

Date Radiograph taken: 29.08.2019	Breed: Golden Retriever
Sex: Female	DOB: 19.08.2018
Name of Owner: Career Dogs Australia	Address: PO Box 620 Northlakes 4509 Email: <a href="mailto:info@careerdog.com.au">info@careerdog.com.au</a> northlakes@qldveterinaryspecialists.com.au
Sire: GUIDEWELL BART	Dam: "SARA" EIRLYS GODDESS OF KNOWLEDGE

The results of the examination will be used at a future date for the purposes of statistical research which will be published. Please check that the particulars above are correct and relate to the dog submitted for radiographic examination by: Dr Jason Beck, Queensland Veterinary Specialists

Signature of owner: \_\_\_\_\_

Please inform Dr R B Lavelle, 80 Ashworths Road, Lancefield, Victoria, 3435 if you object to the use of the results. Telephone (03) 5429 1682 BH

<b>Film quality:</b> Satisfactory	
<b>Positioning:</b> Satisfactory	
<b>Comment:</b> ON ED ASSESSMENT: SUITABLE FOR TRAINING.PLEASE USE DICOM FORMAT NOT JPEGs	
Elbow Grade: 1 Normal	Left: Normal 0
Right :	
Date received for examination: 06.09.2019	 <b>RB LAVELLE</b> MA Vet MB MRCVS DVR FANZCVSc FAVA
Date returned: 07.09.2019	

# 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' QUEEN  
Pet Name : MEMPHIS  
Registration Number :  
Breed : Golden Retriever  
Microchip Number : 953010002762490  
Sex : Female  
Date of Birth : 19th Aug 2018  
Colour : GOLD

## SAMPLE COLLECTION DETAILS

Case Number : 21G12748  
Collected By :  
Approved Collection : NO  
Sample Type : SWAB

## TEST DETAILS

Test Requested : Golden Retriever - Full Breed Profile  
Pet Name : MEMPHIS  
Date of Test : 9th Apr 2021

Sample with Lab ID Number 21G12748 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' QUEEN  
 Pet Name : MEMPHIS  
 Registration Number :  
 Breed : Golden Retriever  
 Microchip Number : 953010002762490  
 Sex : Female  
 Date of Birth : 19th Aug 2018  
 Colour : GOLD

### TESTS REPORTED

### RESULT

#### Diseases

Congenital Eye Malformation (Golden Retriever) NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Degenerative Myelopathy NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Dystrophic Epidermolysis Bullosa (Golden Retriever Type) NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Generalised PRA 1 (Golden Retriever Type) NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Generalised PRA 2 (Golden Retriever Type) NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Ichthyosis A (Golden Retriever) NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Osteogenesis Imperfecta (Golden Retriever Type) NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Progressive Rod Cone Degeneration (prcd) - PRA NEGATIVE / CLEAR [NO VARIANT DETECTED]  
 Skeletal Dysplasia 2 (Mild Disproportionate Dwarfism) NEGATIVE / CLEAR [NO VARIANT DETECTED]

#### Traits

E Locus - (Cream/Red/Yellow) e/e - HOMOZYGOUS FOR NON-EXTENSION [WHITE/YELLOW/APRICOT/WHEATEN]  
 EM (MC1R) Locus - Melanistic Mask E<sub>n</sub>/E<sub>n</sub> - NO MELANISTIC MASK (E<sub>n</sub>) EXTENSION ALLELE  
 I Locus Colour Intensity I/i - ONE COPY OF THE MFSD12 INTENSITY ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)  
 Brown (345DELP) Deletion B<sub>d</sub>/B<sub>d</sub> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]  
 Brown (GLNT331STOP) Stop Codon B<sub>s</sub>/B<sub>s</sub> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON]  
 Brown (SER41CYS) Insertion Codon B<sub>c</sub>/B<sub>c</sub> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION]  
 Liver [TYRP1] (Lancashire Heeler Type) B<sub>e</sub>/B<sub>e</sub> - DOES NOT CARRY BROWN/LIVER [TYRP1]  
 D (Dilute) Locus D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL  
 K Locus (Dominant Black) KB / k<sub>v</sub> or k<sub>br</sub> - ONE COPY DOMINANT BLACK (KB) and ONE COPY OF NON-BLACK (k<sub>v</sub>) dog MAY be brindled



# ORIVET GENETIC SUMMARY REPORT



TESTS REPORTED	RESULT
Traits A Locus (Fawn/Sable;Tri/Tan Points)	at/at - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]





# 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.

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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](mailto:admin@orivet.com) and we will be happy to work with you to answer any relevant questions.

