

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.



FAIRYTALE ICE LILIEN  
*registered name*

HD191732  
*registration no.*

WHITE SWISS SHEPHERD  
*breed*

F  
*sex*

9/6/2018  
*date of birth*

688052000104198  
*tattoo/microchip/DNA profile*

7  
*age at evaluation in months*



A Not-For-Profit Organization

2090885  
*application number*

BBS-DM39/7F-PI  
*O.F.A. NUMBER*

12/19/2019  
*date of report*

*This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.*

RESULTS:

DEGENERATIVE MYELOPATHY (DM): N/N, TWO NORMAL COPIES OF THE GENE ASSOCIATED WITH DM SUSCEPTIBILITY

*These results are based on the laboratory report from EMBARK VETERINARY and the owner's certification that the sample provided was from the animal described above. The OFA registers these lab results, but cannot warrant the accuracy of the lab results.*

owner

KIAH MOROSS

*G.G. Keller, D.V.M.*

G.G. KELLER, D.V.M., M.S., DACVR  
CHIEF OF VETERINARY SERVICES

www.ofa.org

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*age at evaluation in months*

2090885  
*application number*

BBS-MD1-11/7F-PI-N/N  
*O.F.A. NUMBER*

12/19/2019  
*date of report*

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RESULTS:  
MULTIPLE DRUG RESISTANCE (MDR1): NORMAL/NORMAL

*These results are based on the laboratory report from EMBARK VETERINARY and the owner's certification that the sample provided was from the animal described above. The OFA registers these lab results, but cannot warrant the accuracy of the lab results.*

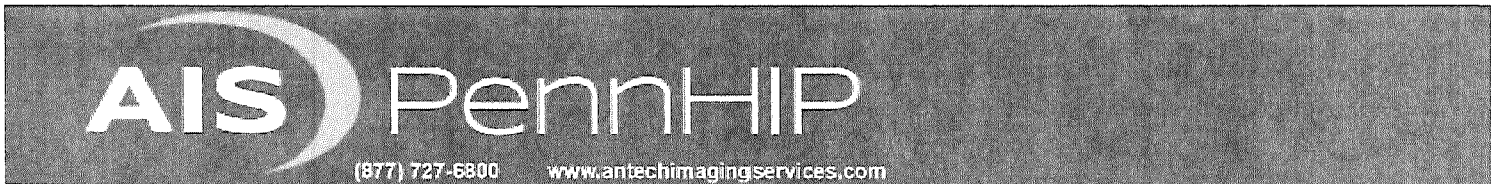
owner

KIAH MOROSS

*G.G. Keller, DVM*

G.G.KELLER, D.V.M., M.S., DACVR  
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www.ofa.org



Doctor's Copy

**PennHIP Report**

Referring Veterinarian: Dr Matt Leara Email: animalclinicofhonolulu@gmail.com	Clinic Name: Animal Clinic of Honolulu Clinic Address: 1048 Koko Head Ave Honolulu, HI 96816 Phone: (808) 734-0255 Fax: (808) 735-1937
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**Patient Information**

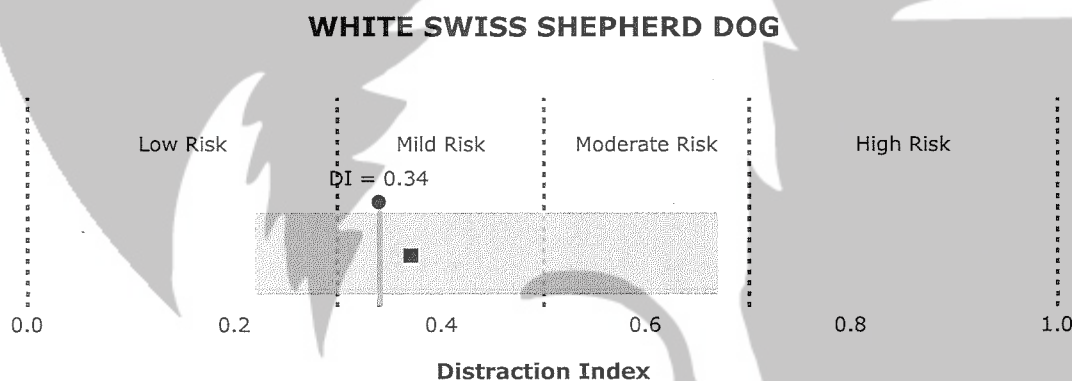
Client: Kiah Moross, Kiah Patient Name: Tale Reg. Name: Fairytale Ice Lilien PennHIP Num: 134539 Species: Canine Date of Birth: 05 Sep 2018 Sex: Female Date of Study: 06 Sep 2019 Date of Report: 10 Sep 2019	Tattoo Num: Patient ID: 32627 Registration Num: JR70980 BSO Microchip Num: 688052000104198 Breed: WHITE SWISS SHEPHERD DOG Age: 12 months Weight: 69.6 lbs/31.6 kgs Date Submitted: 07 Sep 2019
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**Findings**

Distraction Index (DI): Right DI = 0.34, Left DI = 0.29.  
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 0.34.  
OA Risk Category: The DI is between 0.31 and 0.49. This patient is at mild risk for hip OA.  
Distraction Index Chart:



**BREED STATISTICS:** This interpretation is based on a cross-section of 55 canine patients of the WHITE SWISS SHEPHERD DOG breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.22 - 0.67) for the breed. The breed average DI is 0.37 (solid square). The patient DI is the solid circle (0.34).

**SUMMARY:** The degree of laxity (DI = 0.34) 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.**

# Orthopedic Foundation for Animals Preliminary (Consultation) Report



A Not-For-Profit  
Organization

FAIRYTALE ICE LILIEN  
registered name  
WHITE SWISS SHEPHERD  
breed

JR70980  
registration number

F  
sex  
9/6/2018  
date of birth

688052000104198  
tattoo/microchip/DNA profile  
2090885  
application number

12  
age at evaluation in months  
9/18/2019  
date of report

film/case no(s)

Owner  
KIAH MOROSS  
JHERELL MILLER

Veterinarian  
ANIMAL CLINIC OF HONOLULU  
1048 KOKO HEAD AVE  
HONOLULU, HI 96816

## RADIOGRAPHIC EVALUATION OF PELVIC PHENOTYPE WITH RESPECT TO HIP DYSPLASIA

\* The study must be repeated when the animal is 24 months of age or older to qualify for an OFA number.

### EXCELLENT HIP JOINT CONFORMATION\*

superior hip joint conformation as compared with other individuals of the same breed and age

### GOOD HIP JOINT CONFORMATION\*

well formed hip joint conformation as compared with other individuals of the same breed and age

✓

### FAIR HIP JOINT CONFORMATION\*

minor irregularities of the hip joint conformation as compared with other individuals of the same breed and age

### BORDERLINE HIP JOINT CONFORMATION

marginal hip joint conformation of indeterminate status with respect to hip dysplasia at this time – Repeat study in six months

### MILD HIP DYSPLASIA

radiographic evidence of minor dysplastic changes of the hip joints

### MODERATE HIP DYSPLASIA

well defined radiographic evidence of dysplastic changes of the hip joints

### SEVERE HIP DYSPLASIA

radiographic evidence of marked dysplastic changes of the hip joints

## HIP JOINTS - STANDARD VD VIEW

### RADIOGRAPHIC FINDINGS

subluxation  
remodeling of femoral head/neck  
osteoarthritis/degenerative joint disease  
shallow acetabula  
acetabular rim/edge change  
unilateral pathology left right  
transitional vertebra  
spondylosis  
panosteitis  
other

## ELBOW JOINTS – FLEXED LATERAL VIEW

✓ negative for elbow dysplasia ✓ L ✓ R

### ELBOW DYSPLASIA

Grade I L R  
Grade II L R  
Grade III L R

### RADIOGRAPHIC FINDINGS

degenerative joint disease (DJD) L R  
united anconeal process (UAP) L R  
fragmented coronoid process (FCP) L R  
osteochondrosis L R

Consultation by:

*G.G. Keller DVM*  
G.G. KELLER/DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

2300 E Nifong Blvd  
Columbia MO 65201

Tele: (573) 442-0418  
Fax: (573) 875-5073

Email: ofa@offa.org  
Website: https://www.ofa.org

## Dog Information

**Fairytales Ice Lilien**  
NAME

**White Shepherd**  
GENETIC BREED

**FCPR: n/a**  
REGISTRATION

**Female**  
SEX

**September 6th, 2018**  
DATE OF BIRTH

**688052000104198**  
MICROCHIP

**Kiah Y Moross**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**April 10th, 2019**  
TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT
Canine Leukocyte Adhesion Deficiency Type III (LAD3)	FERMT3	NN	Clear
Degenerative Myelopathy	SOD1	GG	Clear
MDR1 Drug Sensitivity	MDR1	NN	Clear
Achromatopsia	CNGA3 (Exon 7 SNP)	CC	Clear
Factor VIII Deficiency, Hemophilia A	F8 Exon 1	GG	Clear
Factor VIII Deficiency, Hemophilia A	F8 Exon 11	GG	Clear
Hyperuricosuria and Hyperuricemia or Urolithiasis	SLC2A9 (Exon 5)	CC	Clear
Mucopolysaccharidosis Type VII, Sly Syndrome	GUSB	GG	Clear
Renal Cystadenocarcinoma and Nodular Dermatofibrosis (RCND)	FLCN	GG	Clear
X-linked Ectodermal Dysplasia, Anhidrotic Ectodermal Dysplasia	EDA	GG	Clear

Dog Information

Fairytale Ice Lilien  
NAME

TRAIT TESTS (1/2)

Coat Color		RESULT
E Locus (MC1R)	No dark hairs anywhere	ee
K Locus (CBD103)	Not expressed	k <sup>Y</sup> k <sup>Y</sup>
A Locus (ASIP)	Not expressed	a <sup>t</sup> a <sup>t</sup>
D Locus (MLPH)	Not expressed	DD
B Locus (TYRP1)	Likely black colored nose/feet	BB
Saddle Tan (RALY)	Not expressed	NN
M Locus (PMEL)	No merle alleles	mm
Other Coat Traits		RESULT
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	ll
Coat Length (FGF5)	Likely long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Coat Texture (KRT71)	Likely straight coat	CC
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE	Likely not albino	NN
Other Body Features		RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC

## Dog Information

**Fairytale Ice Lilien**  
NAME

### TRAIT TESTS (2/2)

#### Body Size

RESULT

Body Size (IGF1)

Larger **NN**

Body Size (IGFR1)

Larger **GG**

Body Size (STC2)

Larger **TT**

Body Size (GHR - E195K)

Larger **GG**

Body Size (GHR - P177L)

Larger **CC**

#### Performance

RESULT

Altitude Adaptation (EPAS1)

Normal altitude tolerance **GG**

#### Genetic Diversity

RESULT

Coefficient Of Inbreeding

28%

MHC Class II - DLA DRB1

No  
Diversity

MHC Class II - DLA DQA1 and DQB1

No  
Diversity

Penn HIP  
ABDOMEN  
FORELIMB  
09/06/2019 19:06 51

Kiah Moross, Tale  
Kiah Moross, Unknown  
11 months  
Female  
Patient ID: (32627)  
Animal Clinic of Hon.



Calibrated: true  
DX

Series 1 of 1  
Image 8 of 9



Penn HIP  
ABDOMEN  
FORELIMB  
09/06/2019 19:06 18

Kiah Moross, Tale  
Kiah Moross, Unknown  
11 months  
Female  
Patient ID: (32627)  
Animal Clinic of Hon...



Calibrated: true  
DX

Series 1 of 1  
Image 7 of 9

Penn HIP  
ABDOMEN  
ABDOMEN  
09/06/2019 18:56 54

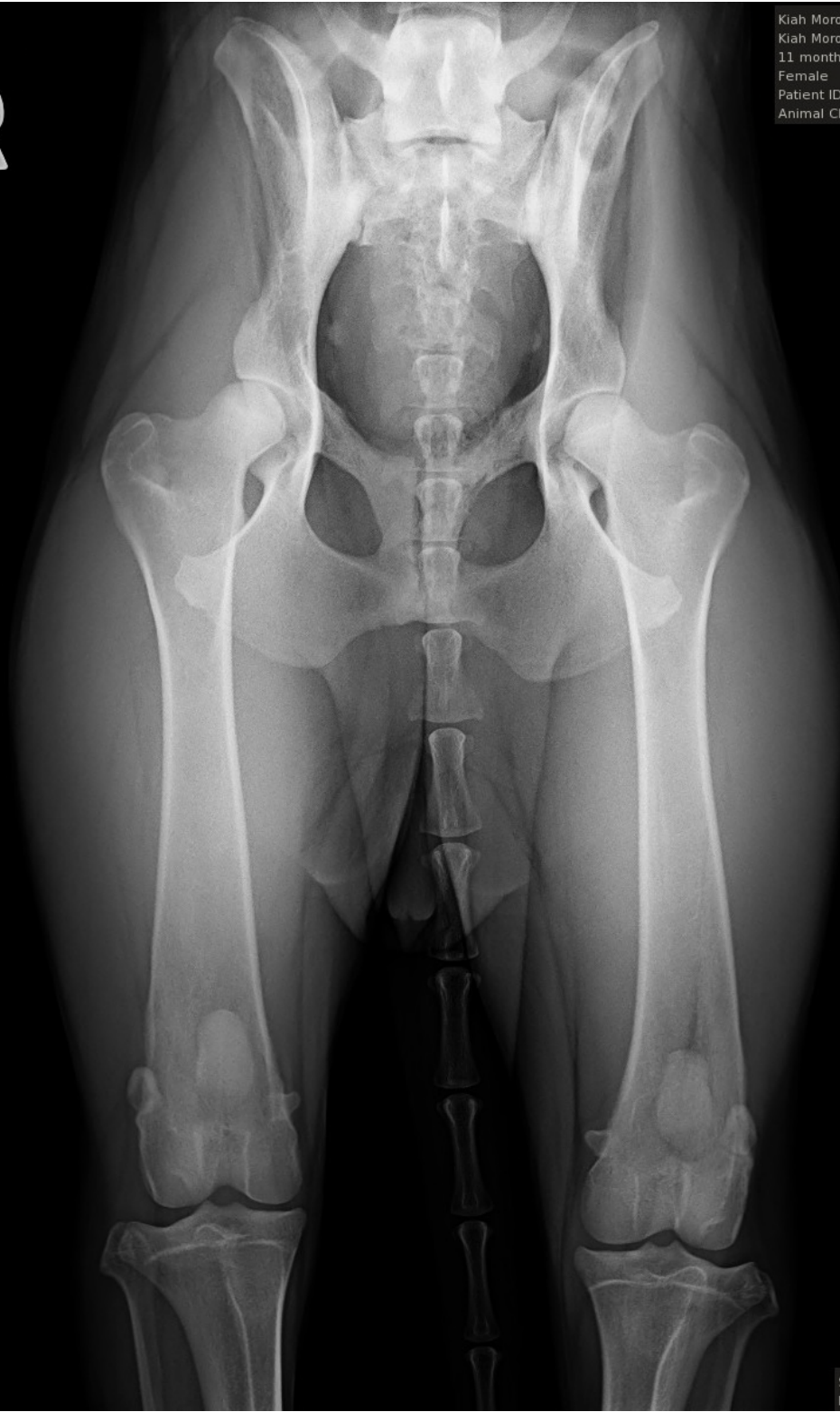
Kiah Moross, Tale  
Kiah Moross, Unknown  
11 months  
Female  
Patient ID: (32627)  
Animal Clinic of Hon...

R

R

Calibrated: true  
DX

Series 1 of 1  
Image 1 of 9



Penn HIP  
ABDOMEN  
ABDOMEN  
09/06/2019 18:58 22

Kiah Moross, Tale  
Kiah Moross, Unknown  
11 months  
Female  
Patient ID: (32627)  
Animal Clinic of Hon...

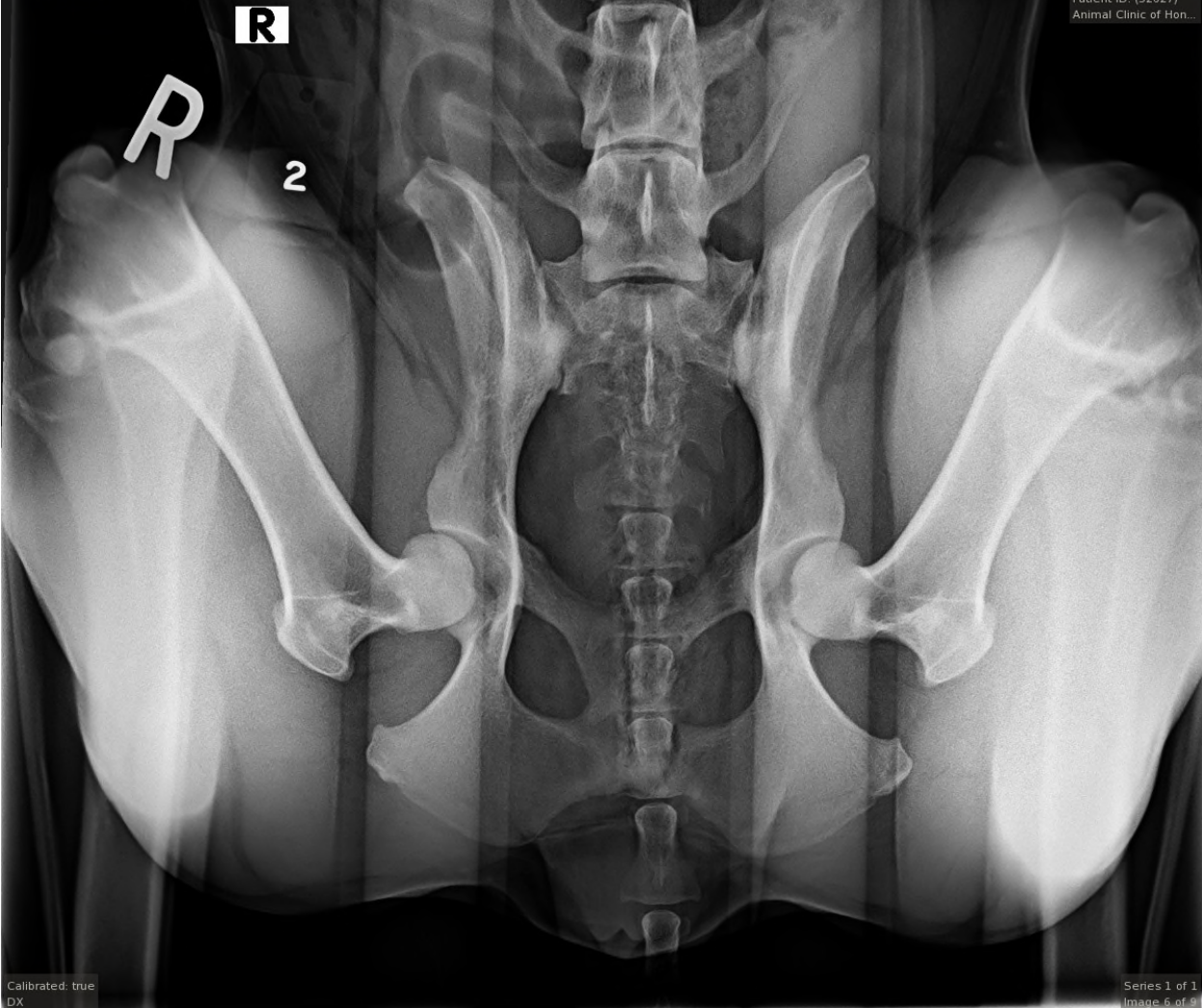


Calibrated: true  
DX

Series 1 of 1  
Image 3 of 9

Penn HIP  
ABDOMEN  
ABDOMEN  
09/06/2019 19:04:29

Kiah Moross, Tale  
Kiah Moross, Unknown  
11 months  
Female  
Patient ID: (32627)  
Animal Clinic of Hon...

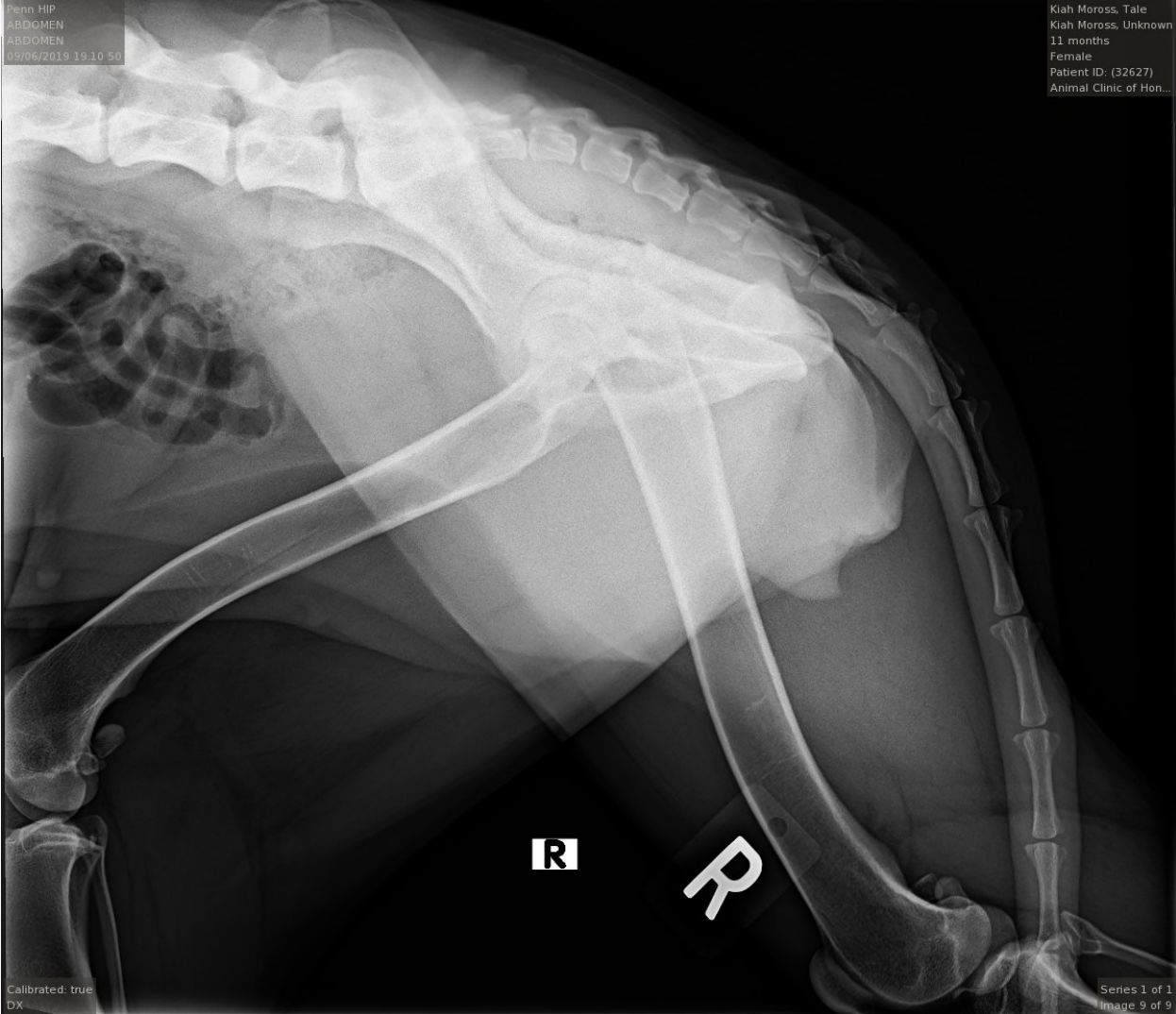


Calibrated: true  
DX

Series 1 of 1  
Image 6 of 9

Penn HIP  
ABDOMEN  
ABDOMEN  
19/06/2019 19:10:50

Kiah Moross, Tale  
Kiah Moross, Unknown  
11 months  
Female  
Patient ID: (32627)  
Animal Clinic of Hon...



Calibrated: true  
DX

Series 1 of 1  
Image 9 of 9