



# Iris melanoma

Author: Marianne Richter, Dipl ECVO



# Iris melanoma

## Definitions:

**Iris melanoma:** KP-HED; a neoplasm caused by malignant transformation of melanocytes in the iris. Occurs with a higher than normal incidence in the Labrador Retriever. Left untreated it may result in secondary glaucoma. Without a histological examination, an iris melanoma cannot be differentiated from a benign melanocytoma in every case. A distinction may become possible depending on the further development.



## Iris melanoma

### Guidelines:

**Iris melanoma:** If there are typical "clinical" signs suspicious for iris melanoma (raised, black-brown lesion in the iris whose growth has been noted), at "18. Other": "Iris melanoma" is written (online: is used) and the box "affected" is ticked.

If a non-raised pigmentation is noticed for the first time, and no information about an increase in size is available, at "18. Other": "Iris melanoma" is written (online: is used) and the box "suspicious" is ticked and re-examination in 6-12 months required; If not progressive, tick "not affected" and write in "descriptive comments": "Pigmented lesion on the iris – to be observed".

If the lesion is progressive, tick "affected".

If there are typical "clinical" signs suspicious for iris melanoma (raised, black-brown lesion in the iris whose growth has been noted), at "18. Other": "Iris melanoma" is written (online: is used) and the box "affected" is ticked.



Slide: Johannes Thal

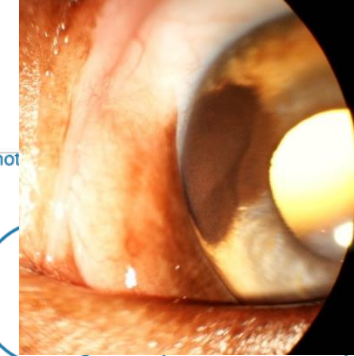
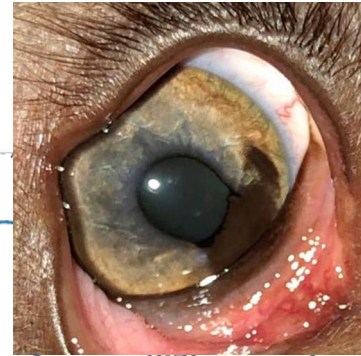
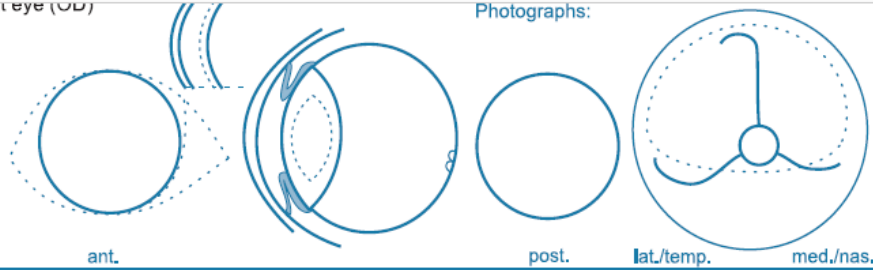


Marianne Richter, Dipl ECVO

Slide: Birgit Lohmann

Right eye (OD)

Photographs:



Descriptive comments:

.....  
 .....  
 .....

Eye disease no. ....  severe

15. Cataract other:

- punctata
- suture line tip
- suture line
- nuclear ring
- nuclear fiberglass/pulverulent

8. ICAA: PLA

- mild
- moderate
- severe

ICA (width)  narrow (moderate)  closed (severe)

**Results for the known or presumed hereditary eye diseases (KP-HED):**

	UNAFFECTED *	UNDETERMINED **	AFFECTED *
1. Persistent Pupillary Membrane (PPM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> iris <input type="checkbox"/> lens
2. Persistent Hyperpl. Tunica Vasculosa Lentis/Primary Vitreous (PHTVL/PHPV)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> grade 1 <input type="checkbox"/> grade 2-6
3. Cataract (congenital)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Retinal Dysplasia (RD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> (multi)focal <input type="checkbox"/> geographical <input type="checkbox"/> total
5. Hypoplastic-/Micro-papilla	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Collie Eye Anomaly (CEA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> choroid, hypoplasia <input type="checkbox"/> coloboma <input type="checkbox"/> other:
7. Other: .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. IridoCorneal Angle Abnormality. (ICAA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> mild <input type="checkbox"/> moderate <input type="checkbox"/> severe

**Results valid for 12 months**

	UNAFFECTED *	SUSPICIOUS ***	AFFECTED *
11. Entropion / Trichiasis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Ectropion / Macroblepharon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Distichiasis / Ectopic cilia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Corneal dystrophy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cataract (non-congenital)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> cortical <input type="checkbox"/> post. pol. <input type="checkbox"/> nuclear <input type="checkbox"/> other
16. Lens luxation (primary)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Retinal degeneration (PRA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Other: <b>Iris melanoma</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Interpretation**

- \* "Unaffected" signifies that there is no clinical evidence of the known or presumed hereditary eye diseases (KP-HED) specified, whereas "affected" signifies that there is such evidence.
- \*\* The animal displays clinical features that could possibly fit the KP-HED mentioned, but the changes are inconclusive.
- \*\*\* The animal displays minor, but specific clinical signs of the KP-HED mentioned. Further development will confirm the diagnosis. Reexamination in .....months.

FOR FUTURE INFORMATION: P.T.O.

Examiner

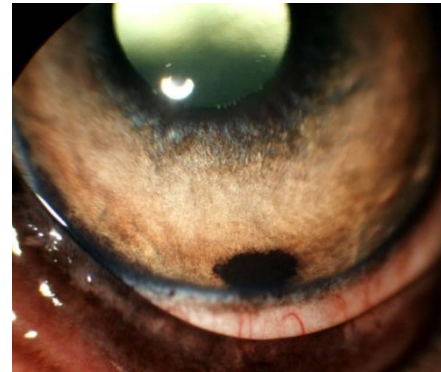
If a non-raised pigmentation is noticed for the first time, and no information about an increase in size is available, at "18. Other": "Iris melanoma" is written (online: is used) and the box "suspicious" is ticked and re-examination in 6-12 months required; If not progressive, tick "not affected" and write in "descriptive comments": "Pigmented lesion on the iris – **to be observed**". If the lesion is progressive, tick "affected".



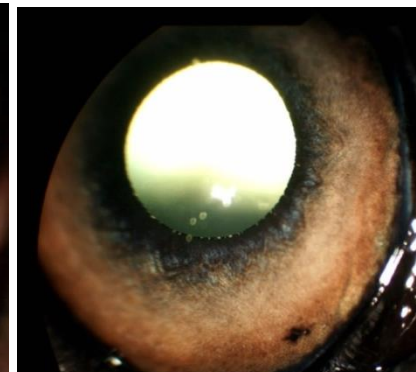
Labrador Retriever  
f, 3 years



Labrador Retriever  
m, 10 months



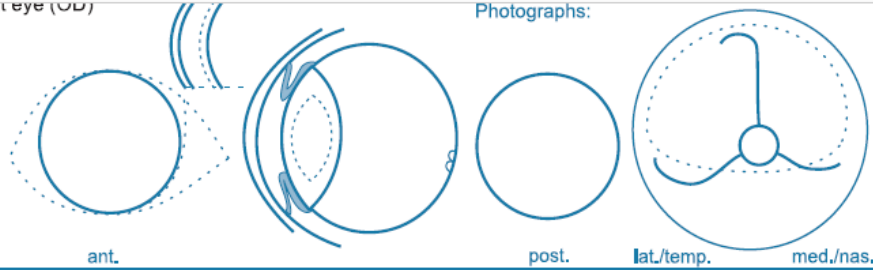
Boerbol  
f, 10 months OS & OD



Slides: Birgit Lohmann

Right eye (OD)

Photographs:



Descriptive comments:

**Pigmented lesion on the iris  
– to be observed**

Eye disease no.  severe

15. Cataract other:

- punctata
- suture line tip
- suture line
- nuclear ring
- nuclear fiberglass/pulverulent

8. ICAA: PLA

- mild
- moderate
- severe

ICA

- narrow (moderate)
- closed (severe)

**Results for the known or presumed hereditary eye diseases (KP-HED):**

	UNAFFECTED *	UNDETERMINED **	AFFECTED *
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4. Retinal Dysplasia (RD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> (multi)focal <input type="checkbox"/> geographical <input type="checkbox"/> total
5. Hypoplastic-/Micro-papilla	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Collie Eye Anomaly (CEA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> choroid, hypoplasia <input type="checkbox"/> coloboma <input type="checkbox"/> other:
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13. Distichiasis / Ectopic cilia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Corneal dystrophy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cataract (non-congenital)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> cortical <input type="checkbox"/> post. pol. <input type="checkbox"/> nuclear <input type="checkbox"/> other
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FOR FURTHER INFORMATION: P.T.O.

Examiner

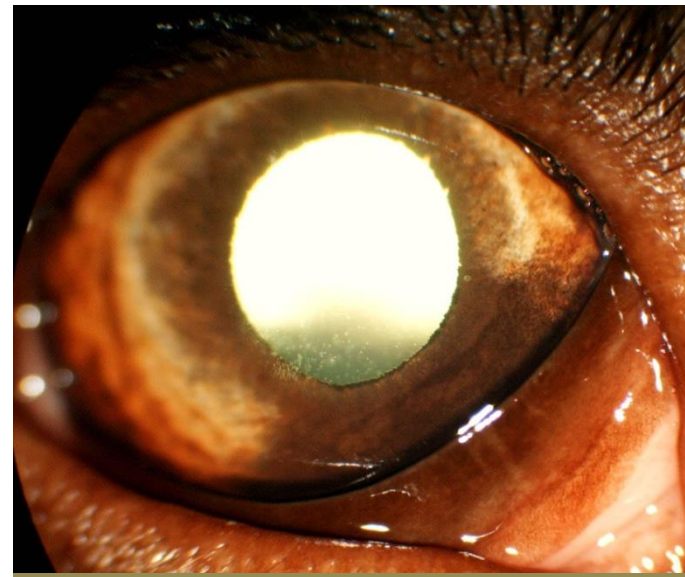
Marianne Richter, Dipl ECVO

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Labrador Retriever, f, 8 months

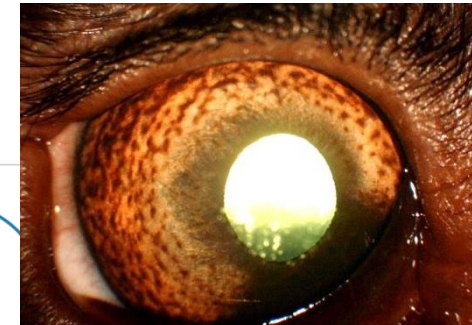
Slides: Birgit Lohmann



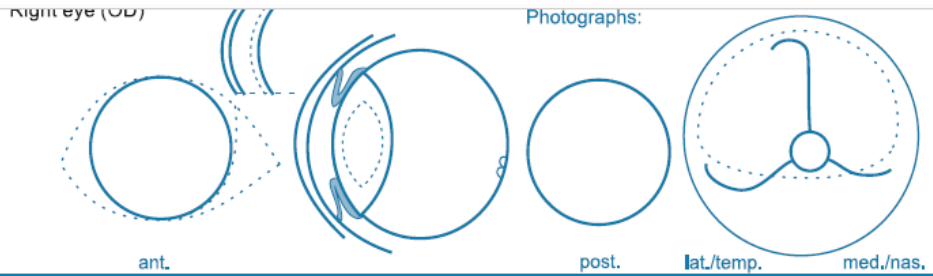
Labrador Retriever, f, 3.5 years  
(same eye: follow-up)



# 1. examination



Labrador Retriever, f, 8 months



Descriptive comments:

**Pigmented lesion on the iris**  
**- to be observed**

Eye disease no.  severe

15. Cataract other:
- punctata
  - suture line tip
  - suture line
  - nuclear ring
  - nuclear fiberglass/pulverulent

8. ICAA: PLA
- mild
  - moderate
  - severe
- ICA (width)
- narrow (moderate)
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### Results valid for 12 months

	UNAFFECTED *	SUSPICIOUS ***	AFFECTED *
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12. Ectropion / Macropblepharon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Distichiasis / Ectopic cilia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Corneal dystrophy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cataract (non-congenital)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> cortical <input type="checkbox"/> post. pol. <input type="checkbox"/> nuclear <input type="checkbox"/> other
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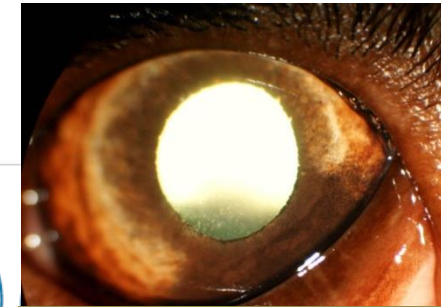
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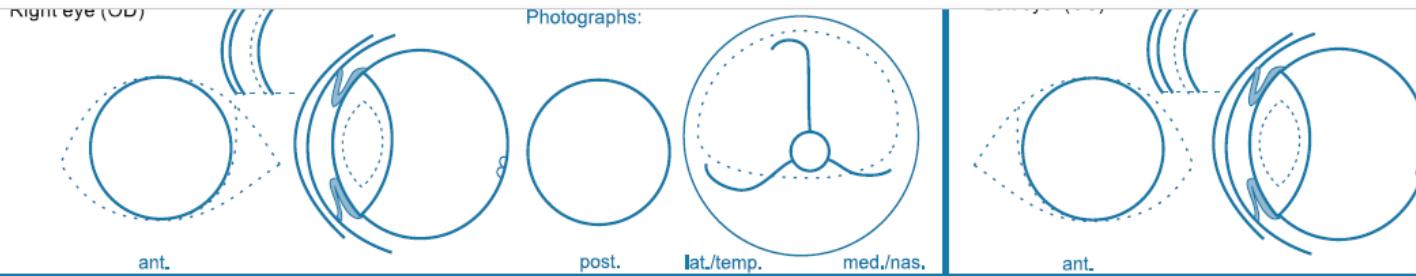
FOR FURTHER INFORMATION: P.T.O.

Examiner

# Re-examination: 2 years later



Labrador Retriever, f, 3.5 years



Descriptive comments:

**Pigmented lesion on the iris –  
to be observed**

Eye disease no.  severe

15. Cataract other:
- punctata
  - suture line tip
  - suture line
  - nuclear ring
  - nuclear fiberglass/pulverulent

8. ICAA: PLA
- mild
  - moderate
  - severe
- ICA (width)
- narrow (moderate)
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4. Retinal Dysplasia (RD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> (multi)focal <input type="checkbox"/> geographical <input type="checkbox"/> total
5. Hypoplastic-/Micro-papilla	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Collie Eye Anomaly (CEA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> choroid, hypoplasia <input type="checkbox"/> coloboma <input type="checkbox"/> other:
7. Other: .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Examiner

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