

# Eye Morphology HRWLLA\_EYE\_001

## Purpose

To detect abnormalities in eye morphology.

## Experimental Design

- **Minimum number of animals** : 7M + 7F
- **Age at test**: Week 58
- **Sex**: We do not expect the results of this test to show sexual dimorphism

## Procedure

1. Examine the anterior of both eyes (e.g. with slit lamp) and record any abnormalities
2. Test the iris/pupil light response
3. Image abnormal eyes as a minimum or all eyes if capacity permits
4. Dilate both eyes
5. Examine the anterior and posterior of both dilated eyes (e.g. with slit lamp and ophthalmoscope) and record any abnormalities
6. Image abnormal eyes as a minimum or all eyes if capacity permits

OCT:

1. Turn on the OCT and start the database
2. Anaesthetize mouse
3. Prepare mouse eyes with drops and place contact lens (focal length 10 mm) on the right eye
4. Enter mouse data in the "Create new patient file" area and switch to the "Acquisition" window
5. Move the OCT camera to the right position and activate measurement modus
6. Place mouse collaterally to the OCT camera on the right side of a platform that is fixed in front of the OCT lens
7. Search the contact lens in the live picture of the fundus image field and place the pupil of the mouse eye in the centre of the window
8. Move the OCT camera such that OCT lens and contact lens touch each other
9. Focus the fundus picture by slightly moving up/down or forward/backward
10. Save fundus images
11. Set the "Ref.Arm" ruler such that the section of the retina is placed in the centre of the blue rectangle
12. Set the mode of measurement on "vertical, horizontal line"
13. Move the blue horizontal line in the fundus image field to the optic nerve level
14. Save images of retinal sections
15. Move the OCT camera to the left position

16. Repeat measurement procedure for the left eye

#### Scheimpflug Imaging:

1. Turn on the Pentacam and start the patient data management
2. Apply one drop 0.5% Atropine to each mouse eye for pupil dilation
3. Enter mouse data in the "Patient" group box and switch to the Scan menu
4. Activate the "1 Picture" modus in the "Image Options" area
5. Move Pentacam to the right position
6. Hold the mouse on a platform such that the vertical LED 475 nm light slit is orientated in the center of the right eye ball
7. Guarantee optimal focus by using the fine adjustment software tool in the adjustment window
8. Start imaging manually by pressing the "Start Scan" button
9. Scheimpflug images are saved automatically
10. Move Pentacam to the left position
11. Repeat measurement procedure for the left eye

## Notes

- As a minimum, all abnormalities should be imaged.
  - Where capacity permits, all mice can be imaged
- Majority of parameters can be analysed using the standard approach for assessing categorical data. To increase power for analysis purposes, where an abnormality is detected in the left, right or both eyes, the data may be combined to generate one "abnormal" category.
- Data for both eyes is recorded under one parameter to distinguish phenotypes of incomplete penetrance in individuals and if an observation for one or both eyes cannot be made, this is recorded as 'no data'. The IMPC analysis pipeline does not take into account whether an abnormality is fully penetrant or not and the same weight is given for an abnormal observations in one or both eyes. In cases where it is not possible to confirm if an abnormality is present or not, the data is not included in the statistical analysis. The following logic is applied in determining whether to include the data in analysis:
  - If at least one of the eyes shows an abnormality in a particular parameter, the data for that specimen will be included in the statistical analysis even if the other eye is marked as "no data".
  - If the eyes are marked as "no data", or one eye is normal and the other eye is "no data" for a particular parameter the data for that specimen will not be included in the statistical analysis.

## Data QC

Image QC is typically performed during data collection to ensure high quality images are captured whilst eyes are dilated etc.

## Parameters and Metadata

## Retinal Blood Vessels Pattern HRWLLA\_EYE\_026\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** right eye abnormal, no data right eye, left eye abnormal, normal, no data left eye, right eye abnormal, no data left eye, no data right eye, left eye abnormal, both eyes abnormal, no data for both eyes,

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## Right total retinal thickness HRWLLA\_EYE\_062\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Retinal Blood Vessels HRWLLA\_EYE\_024\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Options:** right eye abnormal, no data left eye, right eye abnormal, no data right eye, normal, both eyes abnormal, no data for both eyes, no data left eye, no data right eye, left eye abnormal, left eye abnormal,

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## **B-scan of right cornea and lens** HRWLLA\_EYE\_076\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## **Min right eye lens density** HRWLLA\_EYE\_057\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## **VIP of left fundus** HRWLLA\_EYE\_075\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## **Retina (combined)** HRWLLA\_EYE\_092\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Derivation:**

retinaCombined('HRWLLA\_EYE\_020\_001', 'HRWLLA\_EYE\_021\_001', 'HRWLLA\_EYE\_022\_001')

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**Pupil Light Response** HRWLLA\_EYE\_014\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** no data right eye, no data for both eyes, normal, no data right eye, left eye abnormal, left eye abnormal, no data left eye, right eye abnormal, both eyes abnormal, right eye abnormal, no data left eye,

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**Slit Lamp Equipment ID** HRWLLA\_EYE\_030\_001 | v1.2

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

---

**Corneal opacity** HRWLLA\_EYE\_008\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** no data left eye, no data right eye, present left eye, absent, present both eyes, present left eye, no data left eye, present right eye, no data right eye, no data for both eyes, present right eye,

---

## **Lens** HRWLLA\_EYE\_016\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** no data right eye, left eye abnormal, no data right eye, normal, no data for both eyes, right eye abnormal, both eyes abnormal, left eye abnormal, no data left eye, no data left eye, right eye abnormal,

---

## **Narrow eye opening** HRWLLA\_EYE\_006\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** right eye abnormal, no data left eye, left eye abnormal, no data for both eyes, normal, no data right eye, left eye abnormal, no data right eye, both eyes abnormal, no data left eye, right eye abnormal,

---

## **Right vitreous humor thickness** HRWLLA\_EYE\_087\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Corneal mineralization HRWLLA\_EYE\_084\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** absent, no data right eye, no data right eye, present left eye, no data for both eyes, no data left eye, present right eye, no data left eye, present right eye, present left eye, present both eyes,

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## Images Ophthalmoscopy HRWLLA\_EYE\_050\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Left inner nuclear layer HRWLLA\_EYE\_069\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Slit Lamp observation HRWLLA\_EYE\_028\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Iris transillumination HRWLLA\_EYE\_082\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** both eyes abnormal, no data left eye, right eye abnormal, no data for both eyes, normal, left eye abnormal, no data right eye, left eye abnormal, right eye abnormal, no data right eye, no data left eye,

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## Sheimpflug Lens description HRWLLA\_EYE\_052\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Iris/Pupil HRWLLA\_EYE\_010\_001 | v1.0

simpleParameter



**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** no data left eye, right eye abnormal, right eye abnormal, left eye abnormal, both eyes abnormal, no data for both eyes, no data right eye, left eye abnormal, normal, no data left eye, no data right eye,

---

## **Dilation Method** HRWLLA\_EYE\_043\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Options:** Cyclopentolate hydrochloride, Tropicamide, Atropine sulphate, Tropicamide+Phenylephrin, Atropine, Phenylephrine hydrochloride, Cyclopentolate hydrochloride+Phenylephrine hydrochloride, None,

---

## **Left corneal thickness** HRWLLA\_EYE\_066\_001 | v1.2

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** um

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## **Right inner nuclear layer** HRWLLA\_EYE\_063\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Left posterior chamber depth HRWLLA\_EYE\_071\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Right eye diameter HRWLLA\_EYE\_090\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: mm

---

## Corneal deposits HRWLLA\_EYE\_081\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data right eye, no data right eye, present left eye, present both eyes, present right eye, no data for both eyes, no data left eye, present left eye, absent, no data left eye, present right eye,

---

## **Ophthalmoscope Equipment Model** HRWLLA\_EYE\_035\_001 | v1.2

procedureMetadata

**Req. Analysis:** true

**Req. Upload:** false

**Is Annotated:** false

**Options:** Omega 180 / 60D, Omega 500 Unplugged, Genesis-D, Genesis, Sigma 150K, Micron III, SL4 4AA, Genesis-DF, OMEGA 180 / Superfield NC, Xenon Nova 175W light source + HOPKINS optic 1218AA /Nikon D5100 + 85 mm f/1.8 lens,

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## **Retinal Structure** HRWLLA\_EYE\_022\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Options:** no data right eye, left eye abnormal, normal, no data left eye, right eye abnormal, left eye abnormal, no data right eye, no data for both eyes, right eye abnormal, both eyes abnormal, no data left eye,

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## **B-scan of left cornea and lens** HRWLLA\_EYE\_077\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Ophthalmoscope Equipment Manufacturer HRWLLA\_EYE\_034\_001 | v1.2

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

**Options:** Heine, Kowa, Keeler LTD, Phoenix Research Labs, Phoenix, Haag-Streit, Heine / Volk, Karl Storz / Nikon,

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## Date Scheimpflug equipment last calibrated HRWLLA\_EYE\_048\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Eyelid morphology HRWLLA\_EYE\_004\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** both eyes abnormal, no data left eye, right eye abnormal, normal, no data right eye, no data right eye, left eye abnormal, right eye abnormal, no data for both eyes, left eye abnormal, no data left eye,

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## Max right eye lens density HRWLLA\_EYE\_058\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## Topical Anesthetic HRWLLA\_EYE\_044\_001 | v1.1

procedureMetadata

Req. Analysis: true

Req. Upload: true

Is Annotated: false

**Options:** Mydriacyl, Hydrochloride, Atropine, Oxybuprocain, Phenylephrine hydrochloride, Atropine sulphate, No anesthesia,

---

## Synechia HRWLLA\_EYE\_019\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** present right eye, present both eyes, no data for both eyes, no data left eye, present right eye, no data left eye, present left eye, no data right eye, absent, no data right eye, present left eye,

---

## Right anterior chamber depth HRWLLA\_EYE\_061\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Scheimpflug Equipment ID HRWLLA\_EYE\_040\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Retina HRWLLA\_EYE\_020\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Options:** no data right eye, left eye abnormal, left eye abnormal, no data left eye, normal, both eyes abnormal, no data for both eyes, no data left eye, right eye abnormal, right eye abnormal, no data right eye,

---

## Ophthalmoscope Observation HRWLLA\_EYE\_029\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Scheimpflug Equipment Model HRWLLA\_EYE\_042\_001 | v1.4

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

Options: Pentacam,

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## Left anterior chamber depth HRWLLA\_EYE\_067\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Left vitreous humour thickness HRWLLA\_EYE\_088\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Corneal ulcer HRWLLA\_EYE\_085\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: no data left eye, present left eye, no data left eye, present right eye,  
no data right eye, absent, present right eye, present both eyes,  
no data right eye, present left eye, no data for both eyes,

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## Slit Lamp Equipment Manufacturer HRWLLA\_EYE\_031\_001 | v1.2

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

Options: MuLe, Zeiss, Phoenix Research Labs, Kowa, Haag-Streit, Topcon, CSO,

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## Min left eye lens density HRWLLA\_EYE\_054\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## Experimenter ID HRWLLA\_EYE\_036\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Ophthalmoscope Equipment ID HRWLLA\_EYE\_033\_001 | v1.2

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## Fusion between cornea and lens HRWLLA\_EYE\_018\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data left eye, present right eye, present right eye, no data right eye, absent, present both eyes, present left eye, no data right eye, present left eye, no data left eye, no data for both eyes,

---

## VIP of left eye HRWLLA\_EYE\_079\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## Eyelid closure HRWLLA\_EYE\_005\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data right eye, no data right eye, left eye closed, no data left eye, no data for both eyes, no data left eye, right eye closed, both eyes closed, right eye closed, normal, left eye closed,

---

## Mean right eye lens density HRWLLA\_EYE\_059\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## Persistence of hyaloid vascular system HRWLLA\_EYE\_027\_001 |

v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data for both eyes, no data left eye, present right eye, present right eye, absent, no data right eye, present both eyes, no data left eye, no data right eye, present left eye, present left eye,

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## **B-scan of left retina** HRWLLA\_EYE\_073\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## **Optical Coherence Tomography Equipment Model** HRWLLA\_

EYE\_039\_001 | v1.2

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

Options: EnvisuTM R-Series SDOIS, Spectralis, Envisu R2200,

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## **Date Slit Lamp equipment last calibrated** HRWLLA\_EYE\_046\_001

| v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## **Optical Coherence Tomography Equipment Manufacturer**

HRWLLA\_EYE\_038\_001 | v1.2

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

Options: Heidelberg Engineering, Bioptigen,

---

## General Anesthetic HRWLLA\_EYE\_045\_001 | v1.1

procedureMetadata

Req. Analysis: true

Req. Upload: true

Is Annotated: false

Options: Isoflurane, Ketamine+Xylazine, Euthatal, Ketamine+Medetomidine, Avertin,  
No anesthesia,

---

## Retinal Pigmentation HRWLLA\_EYE\_021\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: right eye abnormal, no data left eye, no data left eye, right eye abnormal,  
no data right eye, left eye abnormal, normal, both eyes abnormal, left eye abnormal,  
no data for both eyes, no data right eye,

---

## Date Ophthalmoscope equipment last calibrated HRWLLA\_EYE\_047\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Left total retinal thickness HRWLLA\_EYE\_068\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Right corneal thickness HRWLLA\_EYE\_060\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

---

## Corneal Sclerization HRWLLA\_EYE\_080\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** present both eyes, no data right eye, present left eye, present right eye, no data left eye, present right eye, present left eye, absent, no data left eye, no data right eye, no data for both eyes,

---

## Optic Disc HRWLLA\_EYE\_023\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** no data left eye, both eyes abnormal, left eye abnormal, right eye abnormal, no data left eye, right eye abnormal, no data for both eyes, normal, no data right eye, left eye abnormal, no data right eye,

---

## Lens Opacity HRWLLA\_EYE\_017\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** absent, present both eyes, no data left eye, present right eye, no data for both eyes, present left eye, no data right eye, no data left eye, no data right eye, present left eye, present right eye,

---

## Right outer nuclear layer HRWLLA\_EYE\_064\_001 | v1.2

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** um

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## Pupil Position HRWLLA\_EYE\_011\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data right eye, left eye abnormal, no data right eye, left eye abnormal, no data for both eyes, right eye abnormal, no data left eye, right eye abnormal, no data left eye, normal, both eyes abnormal,

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## Slit Lamp Equipment Model HRWLLA\_EYE\_032\_001 | v1.2

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

**Options:** Micron III slit lamp extension, SL130, BQ 900 LED/IM-900, S350, 30 SL-M, SL30, SL-15, SL 990, SL-7E, SL 139,

---

## Left eye diameter HRWLLA\_EYE\_091\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: mm

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## Date OCT equipment last calibrated HRWLLA\_EYE\_049\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## Eye HRWLLA\_EYE\_001\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: absent left eye, absent both eyes, absent right eye, present,

---

## VIP of right eye HRWLLA\_EYE\_078\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## Pupil Dilation HRWLLA\_EYE\_013\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: normal, both eyes dilated, no data right eye, left eye dilated, no data for both eyes, right eye dilated, no data right eye, no data left eye, no data left eye, right eye dilated, left eye dilated,



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## Right posterior chamber depth HRWLLA\_EYE\_065\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## B-scan of right retina HRWLLA\_EYE\_072\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Eye Hemorrhage or Blood Presence HRWLLA\_EYE\_003\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** present both eyes, present right eye, no data right eye, present left eye, absent, present left eye, no data for both eyes, no data left eye, no data right eye, no data left eye, present right eye,

---

## Lacrimation HRWLLA\_EYE\_086\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data right eye, present right eye, present both eyes, no data for both eyes, no data left eye, no data left eye, present right eye, no data right eye, present left eye, absent, present left eye,

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## Scheimpflug Equipment Manufacturer HRWLLA\_EYE\_041\_001 | v1

.4

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

**Options:** Oculus GmbH,

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## Mean left eye lens density HRWLLA\_EYE\_056\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Unit Measured:** %

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## Left outer nuclear layer HRWLLA\_EYE\_070\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

---

## Max left eye lens density HRWLLA\_EYE\_055\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## Optical Coherence Tomography Equipment ID HRWLLA\_EYE\_0

37\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Vitreous HRWLLA\_EYE\_083\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** normal, both eyes abnormal, no data left eye, right eye abnormal, left eye abnormal, no data right eye, left eye abnormal, no data for both eyes, right eye abnormal, no data left eye, no data right eye,

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## VIP of right fundus HRWLLA\_EYE\_074\_001 | v1.1

seriesMediaParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

---

## Scheimpflug description HRWLLA\_EYE\_053\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

---

## Corneal vascularization HRWLLA\_EYE\_009\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** no data right eye, no data right eye, present left eye, present right eye, absent, no data left eye, present left eye, no data left eye, present right eye, no data for both eyes, present both eyes,

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## Ophthalmoscope Lens Model HRWLLA\_EYE\_089\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Images Slit Lamp HRWLLA\_EYE\_051\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Bulging eye HRWLLA\_EYE\_002\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** present right eye, no data left eye, present both eyes, no data right eye, present left eye, no data for both eyes, absent, no data left eye, present right eye, no data right eye, present left eye,

---

## Pupil Shape HRWLLA\_EYE\_012\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** no data right eye, left eye abnormal, left eye abnormal, both eyes abnormal, no data right eye, normal, right eye abnormal, no data left eye, right eye abnormal, no data for both eyes, no data left eye,

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## **Iris Pigmentation** HRWLLA\_EYE\_015\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** no data right eye, left eye abnormal, no data right eye, left eye abnormal, both eyes abnormal, no data left eye, right eye abnormal, normal, no data left eye, right eye abnormal, no data for both eyes,

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## **Retinal Blood Vessels Structure** HRWLLA\_EYE\_025\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** right eye abnormal, no data right eye, no data left eye, both eyes abnormal, no data for both eyes, normal, no data left eye, right eye abnormal, no data right eye, left eye abnormal, left eye abnormal,

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## **Cornea** HRWLLA\_EYE\_007\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** no data right eye, right eye abnormal, both eyes abnormal, left eye abnormal, normal, no data right eye, left eye abnormal, no data left eye, no data left eye, right eye abnormal, no data for both eyes,

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