Eye Morphology HRWLLA_EYE_002

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 QC

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

Parameters and Metadata

Slit Lamp observation HRWLLA_EYE_028_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Synechia HRWLLA_EYE_019_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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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

Retinal Blood Vessels Pattern HRWLLA_EYE_026_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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

---

Scheimpflug Equipment Model HRWLLA_EYE_042_001 | v1.4

procedureMetadata

Req. Analysis: true **Req. Upload:** false **Is Annotated:** false

Options: Pentacam,

Ophthalmoscope Observation HRWLLA_EYE_029_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Lens HRWLLA_EYE_016_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

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

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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

Right vitreous humor thickness HRWLLA_EYE_087_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

Scheimpflug description HRWLLA_EYE_053_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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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: %

Ophthalmoscope Equipment Manufacturer HRWLLA_EYE_034_001 | v1.2

procedureMetadata

Req. Analysis: true **Req. Upload:** false **Is Annotated:** false

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

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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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Sheimpflug Lens description HRWLLA_EYE_052_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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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

General Anesthetic HRWLLA_EYE_045_001 | v1.1

procedureMetadata

Req. Analysis: true **Req. Upload:** true **Is Annotated:** false

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

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Corneal mineralization HRWLLA_EYE_084_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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,

Eyelid closure HRWLLA_EYE_005_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

---

Bulging eye HRWLLA_EYE_002_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

Optical Coherence Tomography Equipment Model HRWLLA_EYE_039_001 | v1.2

procedureMetadata

Req. Analysis: true **Req. Upload:** false **Is Annotated:** false

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

Lacrimation HRWLLA_EYE_086_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

Narrow eye opening HRWLLA_EYE_006_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

---

Fusion between cornea and lens HRWLLA_EYE_018_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

Vitreous HRWLLA_EYE_083_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

Right posterior chamber depth HRWLLA_EYE_065_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

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, present both eyes, no data left eye, present right eye, no data right eye, present left eye, present left eye, no data right eye, present right eye, absent, no data left eye,

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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

Experimenter ID HRWLLA_EYE_036_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

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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

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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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Left inner nuclear layer HRWLLA_EYE_069_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

Scheimpflug Equipment Manufacturer HRWLLA_EYE_041_001 | v1.4

procedureMetadata

Req. Analysis: true **Req. Upload:** false **Is Annotated:** false

Options: Oculus GmbH,

Mean right eye lens density HRWLLA_EYE_059_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: %

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

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Right outer nuclear layer HRWLLA_EYE_064_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

Optic Disc HRWLLA_EYE_023_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

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

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Corneal Sclerization HRWLLA_EYE_080_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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Dilation Method HRWLLA_EYE_043_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

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

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Pupil Dilation HRWLLA_EYE_013_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

---

Topical Anesthetic HRWLLA_EYE_044_001 | v1.1

procedureMetadata

Req. Analysis: true **Req. Upload:** true **Is Annotated:** false

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

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Ophthalmoscope Equipment Model HRWLLA_EYE_035_001 | v1.2

procedureMetadata

Req. Analysis: true **Req. Upload:** false **Is Annotated:** false

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

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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: %

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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Eyelid morphology HRWLLA_EYE_004_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

---

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

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Iris/Pupil HRWLLA_EYE_010_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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Retina (combined) HRWLLA_EYE_092_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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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: %

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

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Pupil Shape HRWLLA_EYE_012_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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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: %

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

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

---

Corneal vascularization HRWLLA_EYE_009_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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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

Scheimpflug Equipment ID HRWLLA_EYE_040_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Right anterior chamber depth HRWLLA_EYE_061_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

Slit Lamp Equipment ID HRWLLA_EYE_030_001 | v1.2

procedureMetadata

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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VIP of right fundus HRWLLA_EYE_074_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Pupil Position HRWLLA_EYE_011_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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

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Eye HRWLLA_EYE_001_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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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 ulcer HRWLLA_EYE_085_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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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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Images Ophthalmoscopy HRWLLA_EYE_050_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

---

B-scan of left retina HRWLLA_EYE_073_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

---

Right inner nuclear layer HRWLLA_EYE_063_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

VIP of left fundus HRWLLA_EYE_075_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

---

Ophthalmoscope Equipment ID HRWLLA_EYE_033_001 | v1.2

procedureMetadata

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Pupil Light Response HRWLLA_EYE_014_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

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Cornea HRWLLA_EYE_007_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

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

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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

Left eye diameter HRWLLA_EYE_091_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: mm

Iris transilumination HRWLLA_EYE_082_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

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

Images Slit Lamp HRWLLA_EYE_051_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Max left eye lens density HRWLLA_EYE_055_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: %

VIP of left eye HRWLLA_EYE_079_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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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

VIP of right eye HRWLLA_EYE_078_001 | v1.1

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

---

Left corneal thickness HRWLLA_EYE_066_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Unit Measured: um

Slit Lamp Equipment Model HRWLLA_EYE_032_001 | v1.2

procedureMetadata

Req. Analysis: true **Req. Upload:** false **Is Annotated:** false

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

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Optical Coherence Tomography Equipment ID HRWLLA_EYE_037_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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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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Date Scheimpflug equipment last calibrated HRWLLA_EYE_048_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

---

Lens Opacity HRWLLA_EYE_017_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

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

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