Eye Morphology KMPCLA_EYE_001

Purpose

To detect abnormalities in eye morphology.

Experimental Design

- **Minimum number of animals :** 7M + 7F
- **Age at test:** Week 59
- **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

Optical Coherence Tomography Equipment Model KMPCLA_EYE_039_001 | v1.2

procedureMetadata

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

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

Pupil Dilation KMPCLA_EYE_013_001 | v1.0

simpleParameter

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

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

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Vitreous KMPCLA_EYE_083_001 | v1.1

simpleParameter

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

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

Left anterior chamber depth KMPCLA_EYE_067_001 | v1.2

simpleParameter

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

Unit Measured: um

Topical Anesthetic KMPCLA_EYE_044_001 | v1.1

procedureMetadata

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

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

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Retina (combined) KMPCLA_EYE_092_001 | v1.0

simpleParameter

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

Derivation:
retinaCombined('KMPCLA_EYE_020_001', 'KMPCLA_EYE_021_001', 'KMPCLA_EYE_022_001')

VIP of right eye KMPCLA_EYE_078_001 | v1.1

seriesMediaParameter

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

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Images Ophthalmoscopy KMPCLA_EYE_050_001 | v1.1

seriesMediaParameter

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

---

Right posterior chamber depth KMPCLA_EYE_065_001 | v1.2

simpleParameter

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

Unit Measured: um

Ophthalmoscope Equipment Model KMPCLA_EYE_035_001 | v1.2

procedureMetadata

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

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

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Retinal Blood Vessels Structure KMPCLA_EYE_025_001 | v1.0

simpleParameter

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

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

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Scheimpflug Equipment Manufacturer KMPCLA_EYE_041_001 | v1.4

procedureMetadata

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

Options: Oculus GmbH,

VIP of right fundus KMPCLA_EYE_074_001 | v1.1

seriesMediaParameter

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

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Optical Coherence Tomography Equipment ID KMPCLA_EYE_037_001 | v1.1

procedureMetadata

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

---

Bulging eye KMPCLA_EYE_002_001 | v1.0

simpleParameter

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

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

Scheimpflug description KMPCLA_EYE_053_001 | v1.0

simpleParameter

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

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Eyelid closure KMPCLA_EYE_005_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 left eye, right eye closed, no data right eye, left eye closed, both eyes closed, left eye closed,
no data left eye, right eye closed,

Corneal opacity KMPCLA_EYE_008_001 | v1.0

simpleParameter

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

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

---

Corneal mineralization KMPCLA_EYE_084_001 | v1.0

simpleParameter

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

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

Fusion between cornea and lens KMPCLA_EYE_018_001 | v1.0

simpleParameter

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

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

---

Right inner nuclear layer KMPCLA_EYE_063_001 | v1.2

simpleParameter

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

Unit Measured: um

Ophthalmoscope Lens Model KMPCLA_EYE_089_001 | v1.1

procedureMetadata

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

---

Left vitreous humour thickness KMPCLA_EYE_088_001 | v1.0

simpleParameter

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

Unit Measured: um

Slit Lamp Equipment Model KMPCLA_EYE_032_001 | v1.2

procedureMetadata

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

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

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Scheimpflug Equipment ID KMPCLA_EYE_040_001 | v1.1

procedureMetadata

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

---

Retinal Blood Vessels KMPCLA_EYE_024_001 | v1.0

simpleParameter

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

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

Iris/Pupil KMPCLA_EYE_010_001 | v1.0

simpleParameter

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

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

Right vitreous humor thickness KMPCLA_EYE_087_001 | v1.0

simpleParameter

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

Unit Measured: um

Ophthalmoscope Equipment ID KMPCLA_EYE_033_001 | v1.2

procedureMetadata

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

Ophthalmoscope Equipment Manufacturer KMPCLA_EYE_034_001 | v1.2

procedureMetadata

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

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

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Right anterior chamber depth KMPCLA_EYE_061_001 | v1.2

simpleParameter

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

Unit Measured: um

Lens Opacity KMPCLA_EYE_017_001 | v1.0

simpleParameter

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

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

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Pupil Position KMPCLA_EYE_011_001 | v1.0

simpleParameter

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

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

---

Right corneal thickness KMPCLA_EYE_060_001 | v1.2

simpleParameter

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

Unit Measured: um

Left posterior chamber depth KMPCLA_EYE_071_001 | v1.2

simpleParameter

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

Unit Measured: um

Retina KMPCLA_EYE_020_001 | v1.1

simpleParameter

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

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

---

Right total retinal thickness KMPCLA_EYE_062_001 | v1.2

simpleParameter

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

Unit Measured: um

Mean left eye lens density KMPCLA_EYE_056_001 | v1.1

simpleParameter

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

Unit Measured: %

Max right eye lens density KMPCLA_EYE_058_001 | v1.1

simpleParameter

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

Unit Measured: %

Corneal ulcer KMPCLA_EYE_085_001 | v1.0

simpleParameter

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

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

---

Right eye diameter KMPCLA_EYE_090_001 | v1.0

simpleParameter

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

Unit Measured: mm

B-scan of left cornea and lens KMPCLA_EYE_077_001 | v1.1

seriesMediaParameter

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

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Iris Pigmentation KMPCLA_EYE_015_001 | v1.0

simpleParameter

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

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

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Date Scheimpflug equipment last calibrated KMPCLA_EYE_048_001 | v1.1

procedureMetadata

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

---

Eye Hemorrhage or Blood Presence KMPCLA_EYE_003_001 | v1.0

simpleParameter

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

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

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Optical Coherence Tomography Equipment Manufacturer

KMPCLA_EYE_038_001 | v1.2

procedureMetadata

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

Options: Heidelberg Engineering, Bioptigen,

Left total retinal thickness KMPCLA_EYE_068_001 | v1.2

simpleParameter

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

Unit Measured: um

Mean right eye lens density KMPCLA_EYE_059_001 | v1.1

simpleParameter

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

Unit Measured: %

Date OCT equipment last calibrated KMPCLA_EYE_049_001 | v1.1

procedureMetadata

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

---

Retinal Blood Vessels Pattern KMPCLA_EYE_026_001 | v1.0

simpleParameter

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

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

---

VIP of left eye KMPCLA_EYE_079_001 | v1.1

seriesMediaParameter

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

---

Slit Lamp observation KMPCLA_EYE_028_001 | v1.1

simpleParameter

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

---

Images Slit Lamp KMPCLA_EYE_051_001 | v1.1

seriesMediaParameter

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

---

Slit Lamp Equipment ID KMPCLA_EYE_030_001 | v1.2

procedureMetadata

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

---

Eyelid morphology KMPCLA_EYE_004_001 | v1.0

simpleParameter

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

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

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B-scan of right retina KMPCLA_EYE_072_001 | v1.1

seriesMediaParameter

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

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Slit Lamp Equipment Manufacturer KMPCLA_EYE_031_001 | v1.2

procedureMetadata

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

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

---

Eye KMPCLA_EYE_001_001 | v1.0

simpleParameter

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

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

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Left corneal thickness KMPCLA_EYE_066_001 | v1.2

simpleParameter

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

Unit Measured: um

Right outer nuclear layer KMPCLA_EYE_064_001 | v1.2

simpleParameter

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

Unit Measured: um

Persistence of hyaloid vascular system KMPCLA_EYE_027_001 | v1.0

simpleParameter

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

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

Retinal Pigmentation KMPCLA_EYE_021_001 | v1.1

simpleParameter

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

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

Dilation Method KMPCLA_EYE_043_001 | v1.0

procedureMetadata

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

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

---

Ophthalmoscope Observation KMPCLA_EYE_029_001 | v1.1

simpleParameter

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

---

Min left eye lens density KMPCLA_EYE_054_001 | v1.2

simpleParameter

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

Unit Measured: %

Scheimpflug Equipment Model KMPCLA_EYE_042_001 | v1.4

procedureMetadata

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

Options: Pentacam,

Date Slit Lamp equipment last calibrated KMPCLA_EYE_046_001 | v1.1

procedureMetadata

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

Max left eye lens density KMPCLA_EYE_055_001 | v1.1

simpleParameter

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

Unit Measured: %

Pupil Light Response KMPCLA_EYE_014_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, normal, left eye abnormal, no data left eye, right eye abnormal, no data right eye, no data for both eyes, both eyes abnormal,

Corneal deposits KMPCLA_EYE_081_001 | v1.1

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

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B-scan of left retina KMPCLA_EYE_073_001 | v1.1

seriesMediaParameter

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

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Synechia KMPCLA_EYE_019_001 | v1.0

simpleParameter

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

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

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Left inner nuclear layer KMPCLA_EYE_069_001 | v1.2

simpleParameter

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

Unit Measured: um

Experimenter ID KMPCLA_EYE_036_001 | v1.1

procedureMetadata

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

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Corneal Sclerization KMPCLA_EYE_080_001 | v1.1

simpleParameter

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

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

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General Anesthetic KMPCLA_EYE_045_001 | v1.1

procedureMetadata

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

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

VIP of left fundus KMPCLA_EYE_075_001 | v1.1

seriesMediaParameter

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

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Left outer nuclear layer KMPCLA_EYE_070_001 | v1.2

simpleParameter

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

Unit Measured: um

Lens KMPCLA_EYE_016_001 | v1.0

simpleParameter

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

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

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Pupil Shape KMPCLA_EYE_012_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, both eyes abnormal, no data left eye, right eye abnormal, no data right eye, no data for both eyes, left eye abnormal, no data left eye,

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Min right eye lens density KMPCLA_EYE_057_001 | v1.1

simpleParameter

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

Unit Measured: %

Date Ophthalmoscope equipment last calibrated KMPCLA_EYE_047_001 | v1.1

procedureMetadata

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

---

Narrow eye opening KMPCLA_EYE_006_001 | v1.0

simpleParameter

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

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

---

Retinal Structure KMPCLA_EYE_022_001 | v1.1

simpleParameter

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

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

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Optic Disc KMPCLA_EYE_023_001 | v1.0

simpleParameter

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

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

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Lacrimation KMPCLA_EYE_086_001 | v1.0

simpleParameter

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

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

B-scan of right cornea and lens KMPCLA_EYE_076_001 | v1.1

seriesMediaParameter

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

---

Corneal vascularization KMPCLA_EYE_009_001 | v1.0

simpleParameter

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

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

Iris transillumination KMPCLA_EYE_082_001 | v1.1

simpleParameter

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

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

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Left eye diameter KMPCLA_EYE_091_001 | v1.0

simpleParameter

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

Unit Measured: mm

Sheimpflug Lens description KMPCLA_EYE_052_001 | v1.1

simpleParameter

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

---

Cornea KMPCLA_EYE_007_001 | v1.0

simpleParameter

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

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

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