Eye Morphology BCMLA_EYE_003

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

Eye BCMLA_EYE_001_001 | v1.0

simpleParameter

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

Description: eye

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

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Bulging eye BCMLA_EYE_002_001 | v1.0

simpleParameter

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

Description: bulging_eye

Options: absent, no data left eye, no data right eye, present left eye, present right eye,

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

no data right eye, present left eye,

Eye Hemorrhage or Blood Presence BCMLA_EYE_003_001 | v1.0

simpleParameter

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

Description: eye_hemorrhage_or_blood_presence

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

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Eyelid morphology BCMLA_EYE_004_001 | v1.0

simpleParameter

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

Description: eyelid_morphology

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

Eyelid closure BCMLA_EYE_005_001 | v1.0

simpleParameter

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

Description: eyelid_closure

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

Narrow eye opening BCMLA_EYE_006_001 | v1.0

simpleParameter

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

Description: narrow_eye_opening

Options: normal, no data left eye, no data right eye, left eye abnormal, right eye abnormal,

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

no data right eye, left eye abnormal,

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Cornea BCMLA_EYE_007_001 | v1.0

simpleParameter

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

Description: cornea

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

no data right eye, left eye abnormal,

Corneal opacity BCMLA_EYE_008_001 | v1.0

simpleParameter

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

Description: corneal_opacity

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

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Corneal vascularization BCMLA_EYE_009_001 | v1.0

simpleParameter

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

Description: corneal_vascularization

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

Iris/Pupil BCMLA_EYE_010_001 | v1.0

simpleParameter

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

Description: iris_pupil

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

Pupil Position BCMLA_EYE_011_001 | v1.0

simpleParameter

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

Description: pupil_position

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

no data right eye, left eye abnormal,

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Pupil Shape BCMLA_EYE_012_001 | v1.0

simpleParameter

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

Description: pupil_shape

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

Pupil Dilation BCMLA_EYE_013_001 | v1.0

simpleParameter

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

Description: pupil_dilation

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

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Pupil Light Response BCMLA_EYE_014_001 | v1.0

simpleParameter

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

Description: pupil_light_response

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

Iris Pigmentation BCMLA_EYE_015_001 | v1.0

simpleParameter

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

Description: iris_pigmentation

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

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Lens BCMLA EYE 016 001 | v1.0

simpleParameter

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

Description: lens

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

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Lens Opacity BCMLA_EYE_017_001 | v1.0

simpleParameter

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

Description: lens_opacity

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

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Fusion between cornea and lens BCMLA EYE 018 001 | v1.0

simpleParameter

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

Description: fusion_between_cornea_and_lens

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

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Synechia BCMLA_EYE_019_001 | v1.0

simpleParameter

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

Description: synechia

Options: absent, no data left eye, no data right eye, present left eye, present right eye,

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

no data right eye, present left eye,

Optic Disc BCMLA_EYE_023_001 | v1.0

simpleParameter

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

Description: optic_disc

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

no data right eye, left eye abnormal,

Retinal Blood Vessels BCMLA EYE 024 001 | v1.0

simpleParameter

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

Description: retinal_blood_vessels

Options: normal, no data left eye, no data right eye, left eye abnormal, right eye abnormal,

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

no data right eye, left eye abnormal,

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Retinal Blood Vessels Structure BCMLA_EYE_025_001 | v1.0

simpleParameter

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

Description: retinal_blood_vessels_structure

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

no data right eye, left eye abnormal,

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Retinal Blood Vessels Pattern BCMLA_EYE_026_001 | v1.0

simpleParameter

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

Description: retinal_blood_vessels_pattern

Options: normal, no data left eye, no data right eye, left eye abnormal, right eye abnormal, both eyes abnormal, no data for both eyes, no data left eye, right eye abnormal, no data right eye, left eye abnormal,		
	loid vascular syste	n BCMLA_EYE_027_001 v1
.0 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Description: persistence_of_h	nyaloid_vascular_system	
Options: absent, no data left of present both eyes, no data for no data right eye, present left of		
Slit Lamp observat	ion BCMLA_EYE_028_001	v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Description: slit_lamp_observ	vation	

Ophthalmoscope Observation BCMLA_EYE_029_001 | v1.1

Req. Analysis: false Req. Upload: false Is Annotated: false **Description:** ophthalmoscope_observation Slit Lamp Equipment ID BCMLA_EYE_030_001 | v1.2 procedureMetadata Req. Analysis: false Req. Upload: false Is Annotated: false **Description:** slit_lamp_equipment_id Slit Lamp Equipment Manufacturer BCMLA_EYE_031_001 | v1.2 procedureMetadata Req. Analysis: true Req. Upload: false Is Annotated: false **Description:** slit_lamp_equipment_manufacturer Options: Zeiss, Haag-Streit, MuLe, Kowa, CSO, Phoenix Research Labs, Topcon,

Slit Lamp Equipment Model BCMLA_EYE_032_001 | v1.2

procedureMetadata

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

Description: slit_lamp_equipment_model Options: SL30, SL130, BQ 900 LED/IM-900, S350, SL-15, SL 990, SL 139, 30 SL-M, Micron III slit lamp extension, SL-7E, Ophthalmoscope Equipment ID BCMLA_EYE_033_001 | v1.2 procedureMetadata Reg. Analysis: false Reg. Upload: false Is Annotated: false **Description:** ophthalmoscope_equipment_id Ophthalmoscope Equipment Manufacturer BCMLA_EYE_034_001 | v1.2 procedureMetadata Req. Analysis: true Req. Upload: false Is Annotated: false **Description:** ophthalmoscope_equipment_manufacturer Options: Haag-Streit, Heine, Phoenix, Kowa, Karl Storz / Nikon, Phoenix Research Labs, Heine / Volk, Keeler LTD,

Ophthalmoscope Equipment Model BCMLA_EYE_035_001 | v1.2

Reg. Upload: false **Is Annotated:** false

Description: ophthalmoscope_equipment_model

Options: Sigma 150K, Omega 500 Unplugged, Micron III, Genesis-D,

OMEGA 180 / Superfield NC,

Xenon Nova 175W light source + HOPKINS optic 1218AA /Nikon D5100 + 85 mm f/1.8 lens,

Omega 180 / 60D, SL4 4AA, Genesis, Genesis-DF,

Experimenter ID BCMLA_EYE_036_001 | v1.1

procedureMetadata

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

Description: experimenter_id

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Optical Coherence Tomography Equipment ID BCMLA_EYE_03

7_001 | v1.1

procedureMetadata

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

Description: optical_coherence_tomography_equipment_id

Optical Coherence Tomography Equipment Manufacturer

BCMLA_EYE_038_001 | v1.2

procedureMetadata

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

Description: optical_coherence_tomography_equipment_manufacturer

Options: Bioptigen, Heidelberg Engineering,

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Optical Coherence Tomography Equipment Model BCMLA_E

YE_039_001 | v1.2

procedureMetadata

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

Description: optical_coherence_tomography_equipment_model

Options: EnvisuTM R-Series SDOIS, Envisu R2200, Spectralis, Envisu R2210,

Scheimpflug Equipment ID BCMLA_EYE_040_001 | v1.1

procedureMetadata

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

Description: scheimpflug_equipment_id

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Scheimpflug Equipment Manufacturer BCMLA_EYE_041_001 | v1.4

procedureMetadata

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

Description: scheimpflug_equipment_manufacturer

Options: Oculus GmbH,

Scheimpflug Equipment Model BCMLA_EYE_042_001 | v1.4

procedureMetadata

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

Description: scheimpflug_equipment_model

Options: Pentacam,

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Dilation Method BCMLA EYE 043 001 | v1.0

procedureMetadata

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

Description: dilation method

Options: Atropine, Tropicamide, Tropicamide+Phenylephrin, None,

Cyclopentolate hydrochloride, Phenylephrine hydrochloride, Atropine sulphate,

Cyclopentolate hydrochloride+Phenylephrine hydrochloride,

Topical Anesthetic BCMLA_EYE_044_001 | v1.1

procedureMetadata

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

Description: topical_anesthetic

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

Hydrochloride, Atropine sulphate,

.....

General Anesthetic BCMLA_EYE_045_001 | v1.1

procedureMetadata

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

Description: general_anesthetic

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

Ketamine+Medetomidine, Zoletil,

Date Slit Lamp equipment last calibrated BCMLA_EYE_046_001 |

v1.1

procedureMetadata

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

Date Ophthalmosc _047_001 v1.1 procedureMetadata	ope equipment last	calibrated BCMLA_EYE
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Date Scheimpflug		orated BCMLA_EYE_048_0
01 v1.1 procedureMetadata		
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Date OCT equipme	ent last calibrated Bo	CMLA_EYE_049_001 v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Images Ophthalmo seriesMediaParameter	SCOPY BCMLA_EYE_050	_001 v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false

Images Slit Lamp BCMLA_EYE_051_001 | v1.1

seriesMediaParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Sheimpflug Lens d	lescription BCMLA_EYE	E_052_001 v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Scheimpflug descr simpleParameter	ription BCMLA_EYE_053_	_001 v1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Min left eye lens de simpleParameter	ensity BCMLA_EYE_054_	001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		

Max left eye lens density BCMLA_EYE_055_001 | v1.1

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Unit Measured: %			
Mean left eye len	S density BCMLA_EY	E_056_001 v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Unit Measured: %			
Min right eye len simpleParameter	s density BCMLA_EYE	E_057_001 v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Unit Measured: %			

Max right eye lens density BCMLA_EYE_058_001 | v1.1

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		
simpleParameter	s density BCMLA_EYE_(059_001 v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		
Right corneal thick simpleParameter	(ness BCMLA_EYE_060_0	001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		
Right anterior char simpleParameter	nber depth BCMLA_EY	E_061_001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true

Unit Measured: um

Right total retinal t	hickness BCMLA_EYE_	062_001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		
Right inner nuclear simpleParameter	r layer BCMLA_EYE_063_	_001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		
Right outer nuclea	r layer BCMLA_EYE_064	_001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		

Right posterior chamber depth BCMLA_EYE_065_001 | v1.2

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: um Left corneal thickness BCMLA EYE 066 001 | v1.2 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: um Left anterior chamber depth BCMLA_EYE_067_001 | v1.2 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: um

Left total retinal thickness BCMLA_EYE_068_001 | v1.2

simpleParameter

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

Unit Measured: um		
Left inner nuclear I simpleParameter	ayer BCMLA_EYE_069_0	01 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		
Left outer nuclear I simpleParameter	layer BCMLA_EYE_070_0	01 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		
Left posterior chan simpleParameter	nber depth BCMLA_EY	E_071_001 v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		

B-scan of right retina BCMLA_EYE_072_001 | v1.1

seriesMediaParameter

eq. Analysis: false	Req. Upload: false	Is Annotated: false
-scan of left retina	BCMLA_EYE_073_001 v	1.1
lesiviediaParameter		
eq. Analysis: false	Req. Upload: false	Is Annotated: false
IP of right fundus	BCMLA_EYE_074_001 v1.	1
riesMediaParameter		
eg. Analysis: false	Reg. Upload: false	Is Annotated: false
	and the characteristics	
IP of left fundus BC	CMLA_EYE_075_001 v1.1	
riesMediaParameter		
og Analysis folco	Pog Unload: folco	Is Annotated: folco
:q. Analysis: Talse f	Req. Opioad: Taise	is Annotated: Taise
IP of right fundus riesMediaParameter eq. Analysis: false IP of left fundus BoriesMediaParameter	BCMLA_EYE_074_001 v1.	1 Is Annotated: false

B-scan of right cornea and lens BCMLA_EYE_076_001 | v1.1

seriesMediaParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
B-scan of left corn seriesMediaParameter	ea and lens BCMLA_E	YE_077_001 v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
VIP of right eye BCN seriesMediaParameter	MLA_EYE_078_001 v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
VIP of left eye BCML seriesMediaParameter	A_EYE_079_001 v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false

Corneal Sclerization BCMLA_EYE_080_001 | v1.1

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

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

Corneal deposits BCMLA_EYE_081_001 | v1.1

simpleParameter

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

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

Iris transilumination BCMLA_EYE_082_001 | v1.1

simpleParameter

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

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

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

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

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Corneal mineralization BCMLA_EYE_084_001 | v1.0

simpleParameter

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

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

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Corneal ulcer BCMLA_EYE_085_001 | v1.0

simpleParameter

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

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

Lacrimation BCMLA_EYE_086_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true **Options:** absent, present left eye, present right eye, present both eyes, no data left eye, no data right eye, no data for both eyes, no data left eye, present right eye, no data right eye, present left eye, Right vitreous humor thickness BCMLA_EYE_087_001 | v1.0 simpleParameter Reg. Analysis: false Reg. Upload: false Is Annotated: true Unit Measured: um Left vitreous humour thickness BCMLA EYE 088 001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: um

Ophthalmoscope Lens Model BCMLA_EYE_089_001 | v1.1

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Right eye diameter	'BCMLA_EYE_090_001 v1	.0
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: mm		
Left eye diameter B simpleParameter	3CMLA_EYE_091_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: mm		

Retina (combined) BCMLA_EYE_092_002 | v2.0

simpleParameter

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

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