## **Eye Morphology BCMLA\_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**

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

seriesMediaParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Images Slit Lamp & seriesMediaParameter	BCMLA_EYE_051_001   v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Date Scheimpflug	equipment last cali	brated BCMLA_EYE_048_0
01   v1.1		
procedureMetadata		
Req. Analysis: false	Req. Upload: false	Is Annotated: false

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

simpleParameter

Options: no data left eye, no data right eye, both eyes abnormal, 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,			
<b>Eye</b> BCMLA_EYE_001_00 simpleParameter	01   v1.0		
Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Options: absent left eye, abs	ent both eyes, absent right eye	e, present,	
Right anterior charsimpleParameter	mber depth BCMLA_EY	/E_061_001   v1.2	
Req. Analysis: false	Req. 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			

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

simpleParameter

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

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

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

simpleParameter

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

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

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

simpleParameter

Options: both eyes abnormal, normal, left eye abnormal, no data right eye, no data for both eyes, no data left eye, no data left eye, right eye abnormal, right eye abnormal, no data right eye, left eye abnormal,  B-scan of left retina BCMLA_EYE_073_001   v1.1		
seriesMediaParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Right posterior cha simpleParameter	amber depth BCMLA_E	EYE_065_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		
Req. Analysis: false	Req. Upload: false	Is Annotated: false

### Right corneal thickness BCMLA\_EYE\_060\_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

### Iris transilumination BCMLA\_EYE\_082\_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, both eyes abnormal, left eye abnormal, normal, no data left eye, no data right eye, right eye abnormal, no data right eye, left eye abnormal,

# Ophthalmoscope Equipment Manufacturer BCMLA\_EYE\_034\_001

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

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

Keeler LTD, Phoenix,

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

simpleParameter

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

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

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

simpleParameter

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

Unit Measured: um

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

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		
Slit Lamp Equipme procedureMetadata	ent ID BCMLA_EYE_030_0	001   v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Persistence of hyaloid vascular system BCMLA_EYE_027_001   v1 .0 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
<b>Options:</b> no data right eye, present both eyes, absent, present left eye, no data right eye, present left eye, present right eye, no data left eye, present right eye, no data for both eyes, no data left eye,		
Ophthalmoscope Equipment ID BCMLA_EYE_033_001   v1.2 procedureMetadata		
Req. Analysis: false	Req. Upload: false	Is Annotated: false

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

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: mm Scheimpflug Equipment Manufacturer BCMLA\_EYE\_041\_001 | v1.4 procedureMetadata Req. Analysis: true Req. Upload: false Is Annotated: false Options: Oculus GmbH, General Anesthetic BCMLA\_EYE\_045\_001 | v1.1 procedureMetadata Req. Analysis: true Req. Upload: true Is Annotated: false Options: Ketamine+Xylazine, Euthatal, Isoflurane, No anesthesia, Ketamine+Medetomidine, Avertin.

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

Unit Measured: um

### Pupil Light Response BCMLA\_EYE\_014\_001 | v1.0

simpleParameter

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

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

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

procedureMetadata

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

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

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

Req. Analysis: true	Req. Upload: false	Is Annotated: false
Options: Zeiss, MuLe, Kowa,	Haag-Streit, CSO, Phoenix Re	search Labs, Topcon,
Sheimpflug Lens d	lescription BCMLA_EYE	E_052_001   v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Cornea BCMLA_EYE_00 simpleParameter	07_001   v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
<b>Options:</b> normal, no data left eye, no data left eye, right eye abnormal, right eye abnormal, no data right eye, left eye abnormal, no data for both eyes, both eyes abnormal, no data right eye, left eye abnormal,		
Scheimpflug Equipment Model BCMLA_EYE_042_001   v1.4 procedureMetadata		
Req. Analysis: true	Req. Upload: false	Is Annotated: false
Options: Pentacam,		

Scheimpflug Equipment ID BCMLA\_EYE\_040\_001 | v1.1 procedureMetadata Req. Analysis: false Req. Upload: false Is Annotated: false Ophthalmoscope Lens Model BCMLA\_EYE\_089\_001 | v1.1 procedureMetadata Req. Analysis: false Req. Upload: false Is Annotated: false Ophthalmoscope Equipment Model BCMLA\_EYE\_035\_001 | v1.2 procedureMetadata Req. Analysis: true Req. Upload: false Is Annotated: false Options: OMEGA 180 / Superfield NC, Micron III, Genesis, Genesis-DF, Genesis-D, Omega 180 / 60D, Omega 500 Unplugged, Xenon Nova 175W light source + HOPKINS optic 1218AA /Nikon D5100 + 85 mm f/1.8 lens, SL4 4AA, Sigma 150K,

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

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

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

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

simpleParameter

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

Unit Measured: um

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

procedureMetadata

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

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

SL30, S350, 30 SL-M, SL 990,

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

simpleParameter

Unit Measured: um		
Slit Lamp observa	tion BCMLA_EYE_028_00	1   v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Optical Coherence BCMLA_EYE_038_001   v1 procedureMetadata		pment Manufacturer
Req. Analysis: true	Req. Upload: false	Is Annotated: false
Options: Heidelberg Enginee	ering, Bioptigen,	
Min right eye lens density BCMLA_EYE_057_001   v1.1 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		

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

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true
Unit Measured: um

## Date Ophthalmoscope equipment last calibrated BCMLA\_EYE

\_047\_001 | v1.1

procedureMetadata

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

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

simpleParameter

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

**Derivation:** 

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

Dilation Method BCMLA\_EYE\_043\_001 | v1.0

procedureMetadata

Req. Analysis: false Req. Upload: true Is Annotated: false **Options:** Tropicamide+Phenylephrin, Tropicamide, Phenylephrine hydrochloride, Cyclopentolate hydrochloride+Phenylephrine hydrochloride, Cyclopentolate hydrochloride, None, Atropine sulphate, Atropine, \_\_\_\_\_\_ Retinal Pigmentation BCMLA\_EYE\_021\_001 | v1.1 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: false Options: left eye abnormal, no data left eye, no data left eye, right eye abnormal, right eye abnormal, no data right eye, no data right eye, left eye abnormal, no data for both eyes, normal, both eyes abnormal, B-scan of right cornea and lens BCMLA\_EYE\_076\_001 | v1.1 seriesMediaParameter Req. Analysis: false Req. Upload: false Is Annotated: false Experimenter ID BCMLA\_EYE\_036\_001 | v1.1 procedureMetadata

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

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

seriesMediaParameter

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

### Retinal Blood Vessels Structure BCMLA EYE 025 001 | v1.0

simpleParameter

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

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

### Corneal opacity BCMLA\_EYE\_008\_001 | v1.0

simpleParameter

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

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

### Optical Coherence Tomography Equipment ID BCMLA\_EYE\_03

7\_001 | v1.1

procedureMetadata

Req. Analysis: false **Reg. Upload:** false **Is Annotated:** false Optic Disc BCMLA\_EYE\_023\_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: true Is Annotated: true **Options:** no data left eye, both eyes abnormal, no data right eye, left eye abnormal, right eye abnormal, no data right eye, no data for both eyes, normal, left eye abnormal, no data left eye, right eye abnormal, VIP of right fundus BCMLA\_EYE\_074\_001 | v1.1 seriesMediaParameter Req. Analysis: false Req. Upload: false Is Annotated: false Date Slit Lamp equipment last calibrated BCMLA\_EYE\_046\_001 | v1.1 procedureMetadata

VIP of right eye BCI seriesMediaParameter	MLA_EYE_078_001   v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Max left eye lens d	lensity BCMLA_EYE_055	_001   v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		
VIP of left fundus EseriesMediaParameter	BCMLA_EYE_075_001   v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Optical Coherence	Tomography Equi	pment Model BCMLA_E

YE\_039\_001 | v1.2

procedure Metadata

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

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

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

simpleParameter

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

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

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

simpleParameter

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

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

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

simpleParameter

		oth eyes, sent right eye, no data right eye,
Lens BCMLA_EYE_016_0 simpleParameter	001   v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
	ooth eyes abnormal, no data rig left eye abnormal, no data righ ormal,	
Right inner nuclear simpleParameter	r layer BCMLA_EYE_063_	_001   v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		

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

simpleParameter

Unit Measured: %		
Corneal mineraliza simpleParameter	tion BCMLA_EYE_084_00	1   v1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: true
<b>Options:</b> no data for both eyes, present both eyes, no data right eye, present left eye, no data right eye, no data left eye, present right eye, absent, present right eye, present left eye, no data left eye,		
Left eye diameter B simpleParameter	CMLA_EYE_091_001   v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: mm		
Left anterior chamber depth BCMLA_EYE_067_001   v1.2 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: um		

Pupil Position BCML simpleParameter	A_EYE_011_001   v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
	o data right eye, no data left ey oth eyes, normal, both eyes abr ormal,	
Narrow eye openin simpleParameter	g BCMLA_EYE_006_001   v	/1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: true
		eye abnormal, left eye abnormal, eyes abnormal, no data left eye,
Scheimpflug descr simpleParameter	iption BCMLA_EYE_053_	_001   v1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: false

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

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true
Unit Measured: %

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

simpleParameter

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

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

### Eyelid morphology BCMLA\_EYE\_004\_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, no data right eye, left eye abnormal, no data left eye, right eye abnormal, right eye abnormal, both eyes abnormal, no data for both eyes, normal,

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

simpleParameter

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

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

simpleParameter

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

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

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### Retinal Blood Vessels BCMLA\_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 left eye, normal, left eye abnormal, no data for both eyes, both eyes abnormal, no data right eye, no data right eye, left eye abnormal,

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### Retinal Structure BCMLA EYE 022 001 | v1.1

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

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

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

procedureMetadata

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

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

simpleParameter

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

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

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

simpleParameter

Options: present right eye, no	data right eye, present left eye	e, present both eyes, absent,
present left eye, no data left e	ye, present right eye, no data fo	or both eyes, no data right eye,
no data left eye,		
Max right eye lens simpleParameter	density BCMLA_EYE_05	58_001   v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		
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		

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

simpleParameter

<b>Options:</b> no data left eye, present left eye, no data for both eyes, absent, present both eyes, present right eye, no data right eye, no data left eye, present right eye, no data right eye, present left eye,		
VIP of left eye BCMLA seriesMediaParameter	A_EYE_079_001   v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Corneal ulcer BCMLA simpleParameter	_EYE_085_001   v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
<b>Options:</b> no data left eye, no data for both eyes, no data right eye, present left eye, absent, present both eyes, present left eye, present right eye, no data right eye, no data left eye, present right eye,		
Min left eye lens de simpleParameter	ensity BCMLA_EYE_054_	001   v1.2
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: %		

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

simpleParameter

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

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

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

simpleParameter

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

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

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

simpleParameter

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

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

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