

# Eye Morphology IMPC\_EYE\_002

## Purpose

To detect abnormalities in eye morphology.

## Experimental Design

- **Minimum number of animals** : 7M + 7F
- **Age at test**: Week 15
- **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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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

procedureMetadata

**Req. Analysis:** true

**Req. Upload:** false

**Is Annotated:** false

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

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

---

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

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

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## **Vitreous** IMPC\_EYE\_083\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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

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## **Pupil Dilation** IMPC\_EYE\_013\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** um

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Date Ophthalmoscope equipment last calibrated IMPC\_EYE\_0

47\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: mm

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

---

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

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

---

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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## **Synechia** IMPC\_EYE\_019\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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## **Iris Pigmentation** IMPC\_EYE\_015\_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, no data for both eyes, both eyes abnormal, normal, no data left eye, left eye abnormal, no data right eye, left eye abnormal, right eye abnormal,

---

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## Eye Hemorrhage or Blood Presence IMPC\_EYE\_003\_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, present right eye, present left eye, no data left eye, absent, no data for both eyes, no data right eye, present left eye, present both eyes,

---

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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## Optical Coherence Tomography Equipment Manufacturer

IMPC\_EYE\_038\_001 | v1.2

procedureMetadata

**Req. Analysis:** true

**Req. Upload:** false

**Is Annotated:** false

**Options:** Bioptigen, Heidelberg Engineering,

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** um

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** %

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## **Ophthalmoscope Observation** IMPC\_EYE\_029\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Lens IMPC\_EYE\_016\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

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

---

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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## **Scheimpflug description** IMPC\_EYE\_053\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

---

## **General Anesthetic** IMPC\_EYE\_045\_001 | v1.1

procedureMetadata

**Req. Analysis:** true

**Req. Upload:** true

**Is Annotated:** false



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

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** um

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** mm

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** um

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## Optical Coherence Tomography Equipment Model IMPC\_EYE

\_039\_001 | v1.2

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Pupil Light Response IMPC\_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 right eye, normal, left eye abnormal, no data for both eyes, right eye abnormal, no data left eye, right eye abnormal, no data left eye, both eyes abnormal,

---

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

## Slit Lamp Equipment ID IMPC\_EYE\_030\_001 | v1.2

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

## Optical Coherence Tomography Equipment ID IMPC\_EYE\_037\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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## Eyelid closure IMPC\_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, both eyes closed, normal, right eye closed, no data left eye, no data right eye, left eye closed, no data left eye, right eye closed, left eye closed,

---

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

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

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

---

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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## Date Slit Lamp equipment last calibrated IMPC\_EYE\_046\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Unit Measured:** %

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## **Eye** IMPC\_EYE\_001\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

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

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

### Options:

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

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

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

Options: Pentacam,

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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



simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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

procedureMetadata

**Req. Analysis:** true

**Req. Upload:** true

**Is Annotated:** false

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

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## Scheimpflug Equipment Manufacturer IMPC\_EYE\_041\_001 | v1.4

procedureMetadata

**Req. Analysis:** true

**Req. Upload:** false

**Is Annotated:** false

**Options:** Oculus GmbH,

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

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

procedureMetadata

Req. Analysis: true

Req. Upload: false

Is Annotated: false

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

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

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

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

seriesMediaParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

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

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

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

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

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Narrow eye opening IMPC\_EYE\_006\_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, left eye abnormal, no data for both eyes, no data left eye, left eye abnormal, right eye abnormal, both eyes abnormal, normal, no data right eye,

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## Persistence of hyaloid vascular system IMPC\_EYE\_027\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

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

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

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

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: um

---

## Cornea IMPC\_EYE\_007\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

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

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