

User guide

mEYE™ Gauge

Axial length measurement without
the expense of biometry

Powered by
 ocumentra

Introducing mEYE™ Gauge

Axial length measurement is considered gold standard practice when it comes to myopia management. Yet, most practices do not have a biometer, and may struggle to purchase one due to the high initial cost.

To help ECPs begin to integrate axial length measurement into their myopia management practice, Ocumetra have created **mEYE™ Gauge**, a tool that provides accurate axial length estimates without the expense of biometry.

A machine-based learning tool that will estimate axial length with a 95% prediction range to provide you with a child's current estimated axial length as well as their projected adult axial length and associated risk of vision impairment.

mEYE™ Gauge is quick and simple to use with estimated axial length outputs generated with only a few key pieces of information.

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Entering patient details

We begin by entering the patient's basic information; **name**, **sex** and **DOB**. **Patient ID** is an optional field.

The screenshot displays the mEYE Gauge app interface on a tablet. The app title 'mEYE™ Gauge' is at the top right, with the date '01 Jan 2023' next to it. A 'Patient Details' modal is open, showing the following fields:

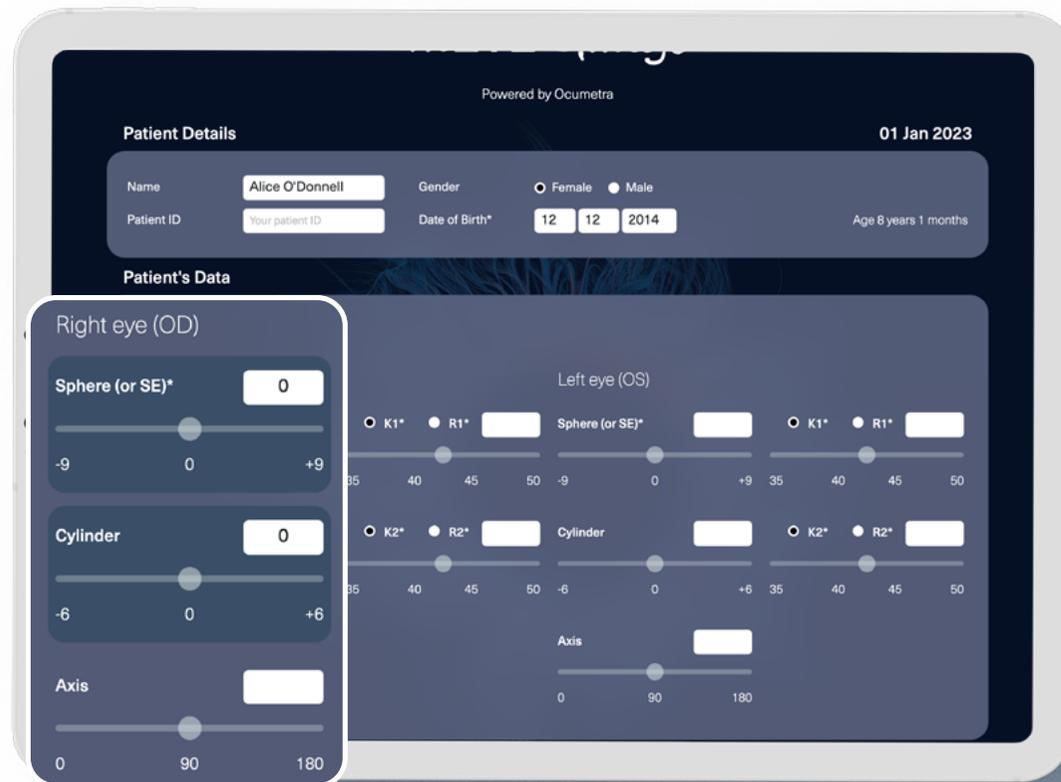
- Name: Alice O'Donnell
- Gender: Female Male
- Patient ID: Your patient ID
- Date of Birth*: 12 / 12 / 2014

Below the modal, the main interface shows the 'Visit Date*' as 16/01/2023. The form is divided into 'Right eye (OD)' and 'Left eye (OS)' sections. Each section has three rows of input fields: 'Sphere (or SE)*', 'Cylinder', and 'Axis'. Each row includes a radio button for 'K1*' and 'R1*' (or 'K2*' and 'R2*') and a slider control. The slider ranges are: Sphere (+9 to 50), Cylinder (+6 to 50), and Axis (0 to 50).

Refraction data

Input the child's refraction including their cylinder should they have any astigmatism. You can, if you choose, enter their refraction as spherical equivalent refraction (SER).

Refraction data can be typed directly into the field or you can use the slider toggle just below.

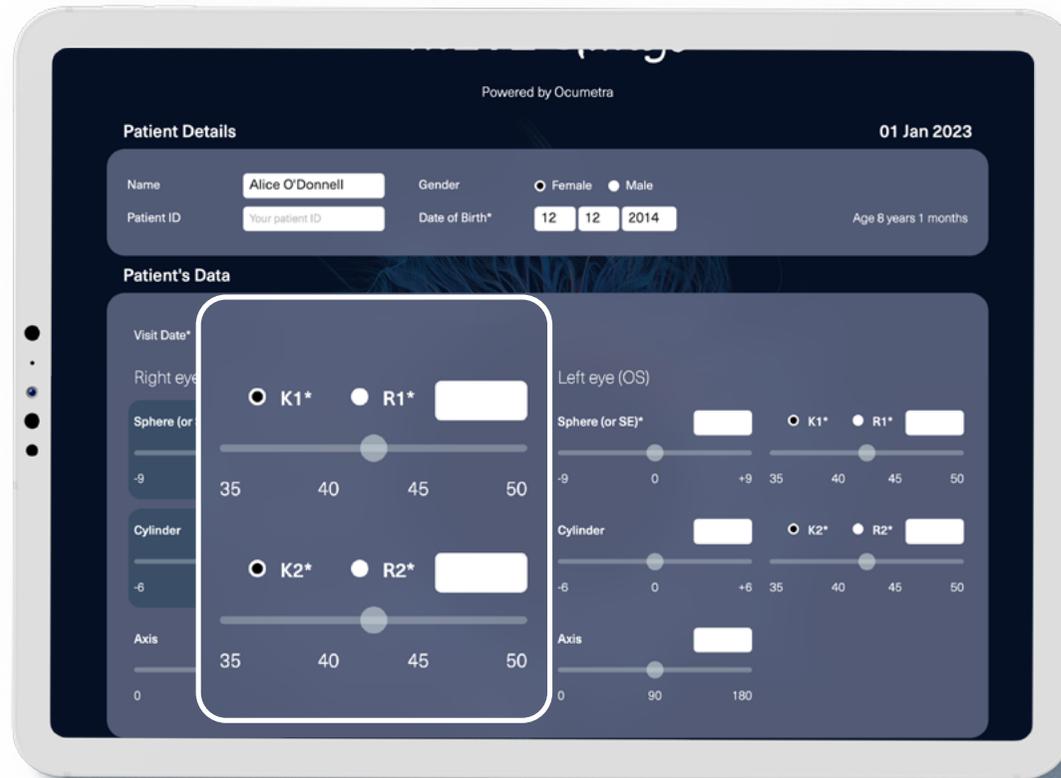


Keratometry data

Enter the patients keratometry readings expressed as K1/K2 values or as R1/R2 values.

Keratometry data can be typed directly into the field or you can use the slider toggle just below.

Once the mandatory fields are complete, click Proceed to generate a personalized report.
It really is as simple as that.

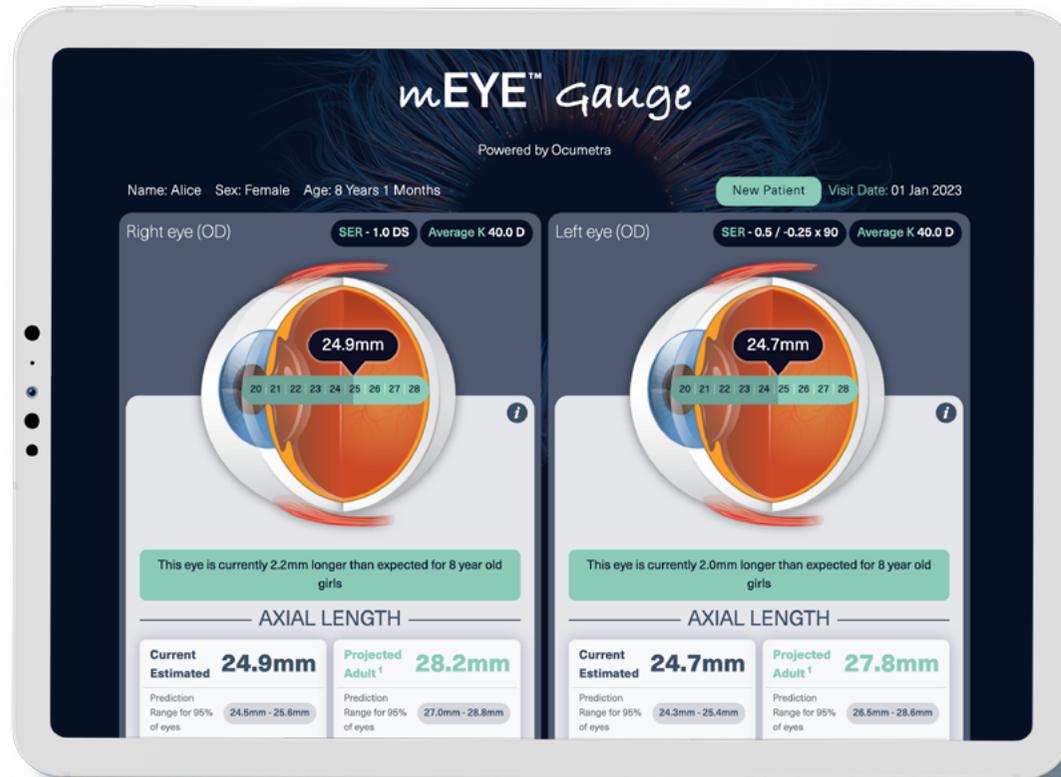


Results

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The image illustrates and details the current estimated axial length of each eye as well as providing **normative, age matched values**.

Informing you if the estimated **axial length is normal for each child**, and if not, how much longer it is compared to an expected value.



Results

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Current estimation – This provides you with an estimation of each child’s axial length.

Prediction range – This gives you the prediction range of axial length measurements for each child. 95% of children’s eyes will fall between these values.

Normal value – This informs you of the normal axial length measurement expected for this child, matched for age, sex and region.

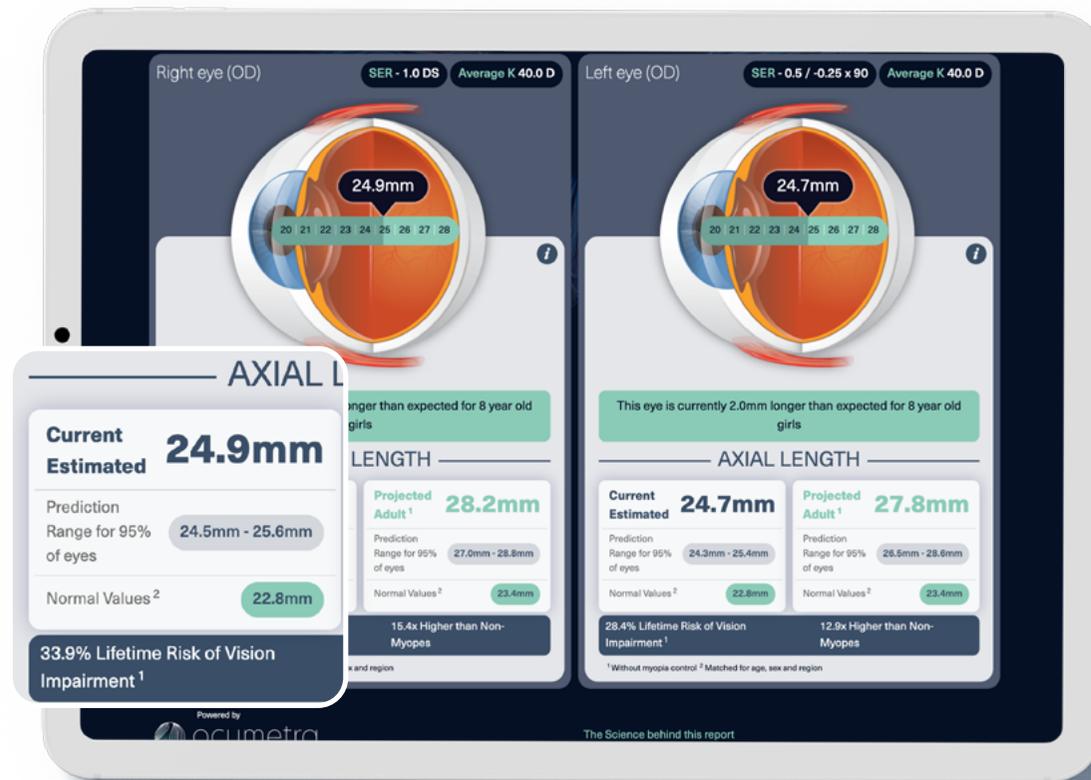
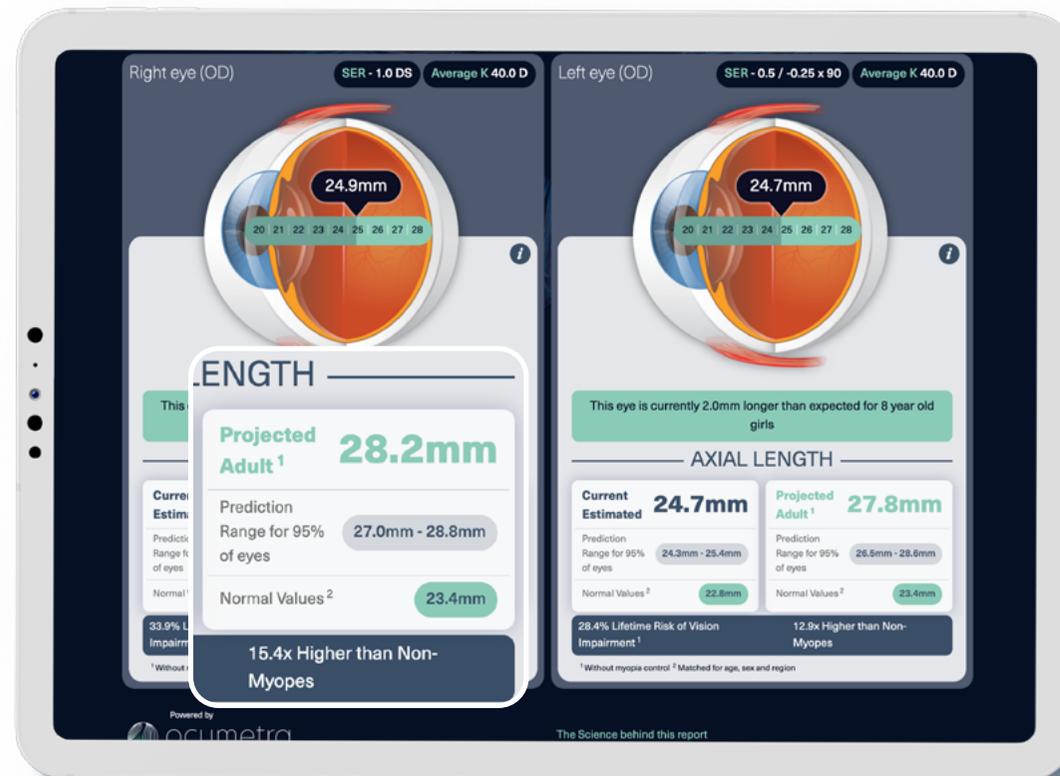


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Projected adult – This provides you with an estimation of a child’s projected axial length by age 20 without myopia management intervention.

Predicted range – This gives you the prediction range of adult axial length measurements for each eye. 95% of eyes will fall between these values.

Normal value – This informs you of the normal axial length measurement expected for this child by age 20, matched for age, sex and region.



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Based on their current estimated axial length, the **lifetime risk of vision impairment** will be calculated as a percentage and provide you with information on how that compares to a non-myope.

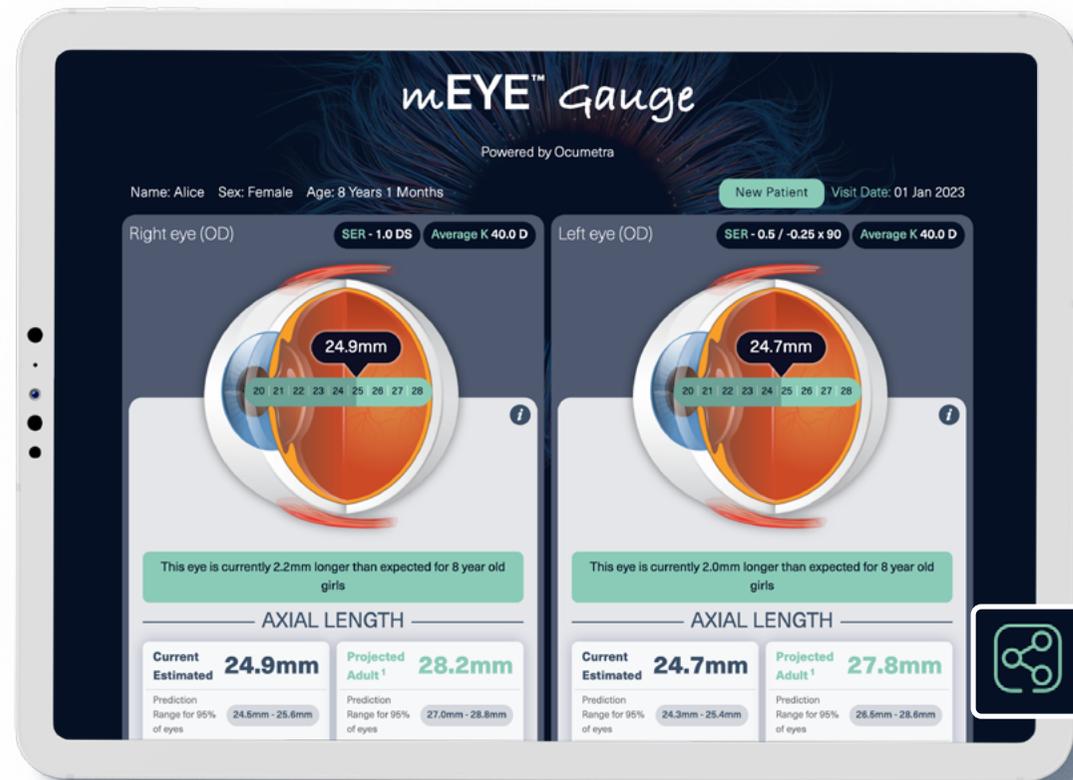
Building your expertise and knowledge on the implications of each individual child's axial length on their future ocular health.



Recording results

Please note that if you exit the report page or click the New Patient tab without recording the results for an individual child, the information will no longer be retrievable. However, you can easily record this information for each patient by either printing a report, use the print function

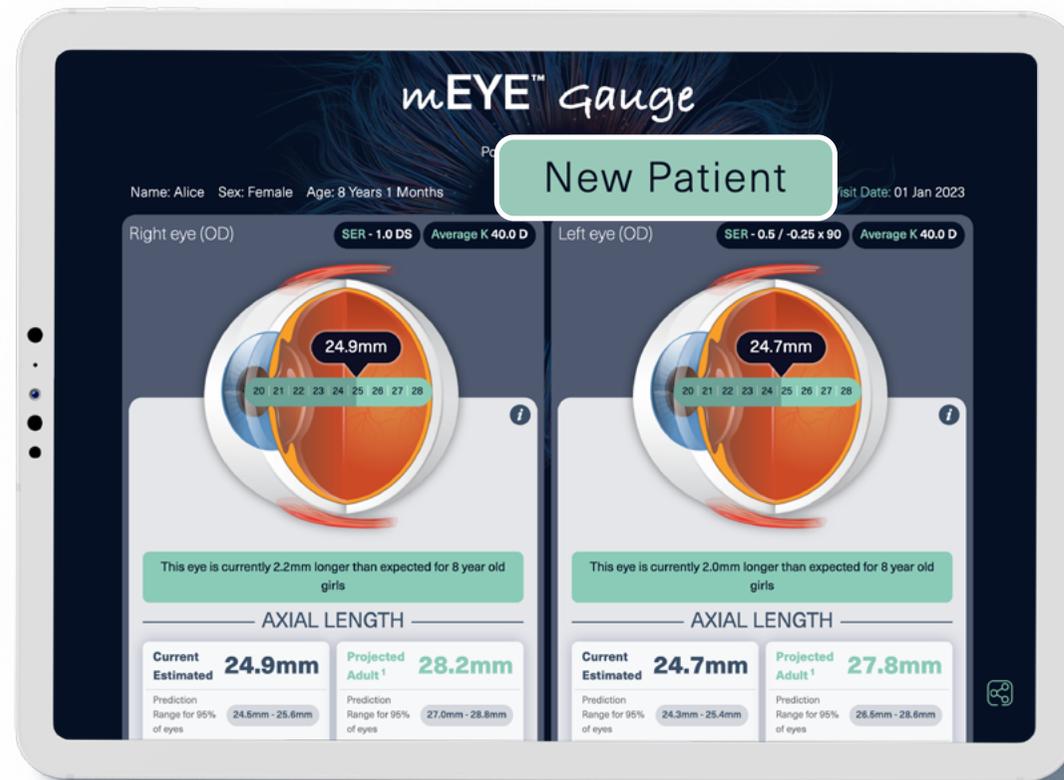
to save the file as a PDF, or by downloading an image by clicking the **share icon** in the bottom right corner. The PDF, image or printout can then be added to your patient files for future reference.



New patient

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When you have finished you can simply click the **new patient** button to move onto the next patient when ready.



Combining mEYE™ Guide and mEYE™ Gauge

mEYE™ Guide will calculate risk profiles for a child based solely on refraction, by also using mEYE™ Gauge, you have **additional risk information** which you can use to help explain and communicate the need for myopia management to parents.

Some children will have a **longer axial length** than expected for their age, sex and refraction and their myopia associated risk may not be truly reflected by using mEYE™ Guide alone.

This **partnership of mEYE™ Guide and mEYE™ Gauge** builds a more detailed picture and risk profile for each individual child which is better for you, better for your patients and better for your business.



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Powering the change from vision correction
to comprehensive myopia management.

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