

Aladdin Biometer

Myopia Module

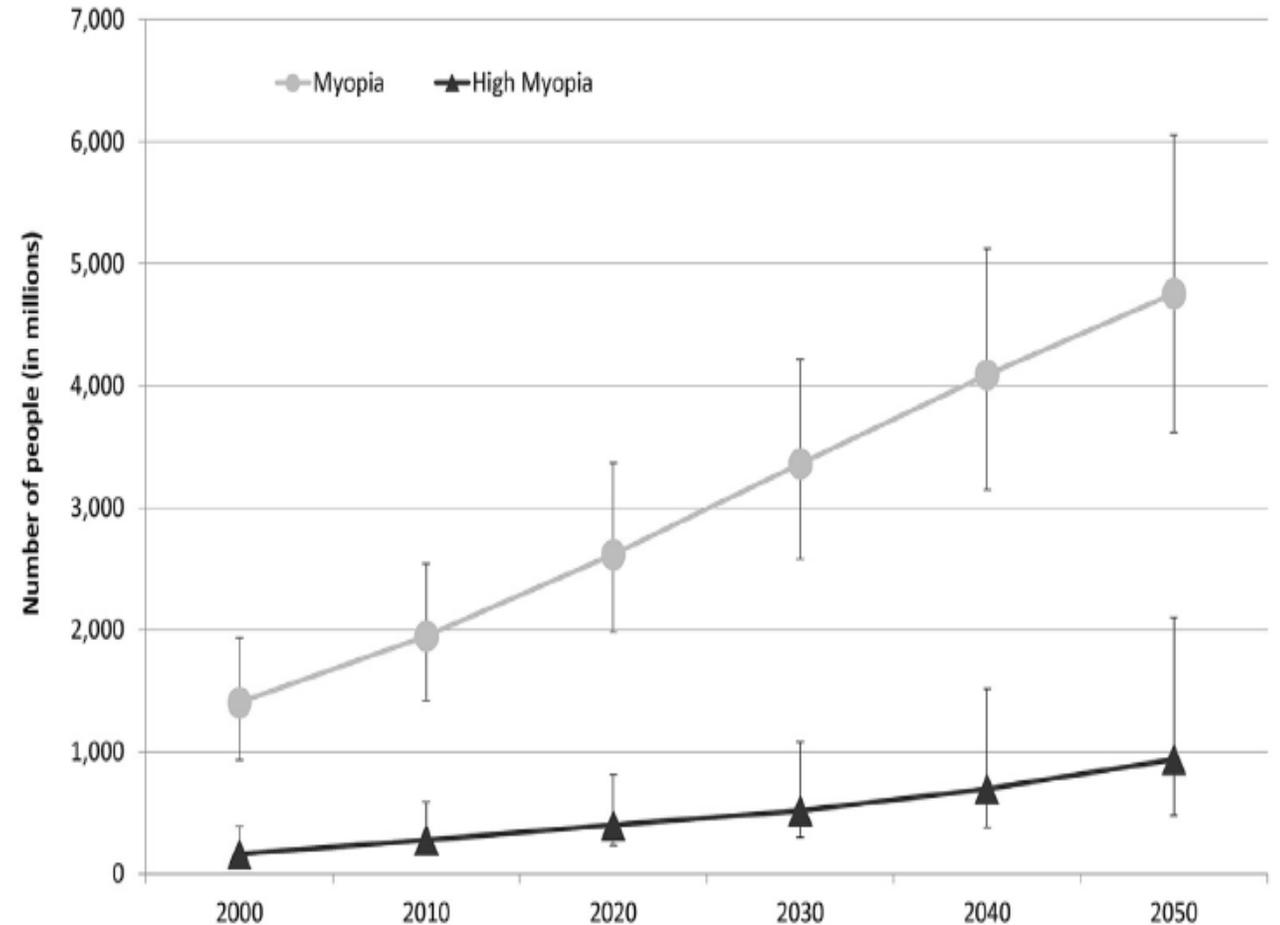


Myopia Global Trends

The prevalence of myopia has approximately doubled in the past three decades, arguably **reaching epidemic levels.**

Onset of myopia in the last two generations has been reported to occur earlier leading to an increased prevalence of high myopia.

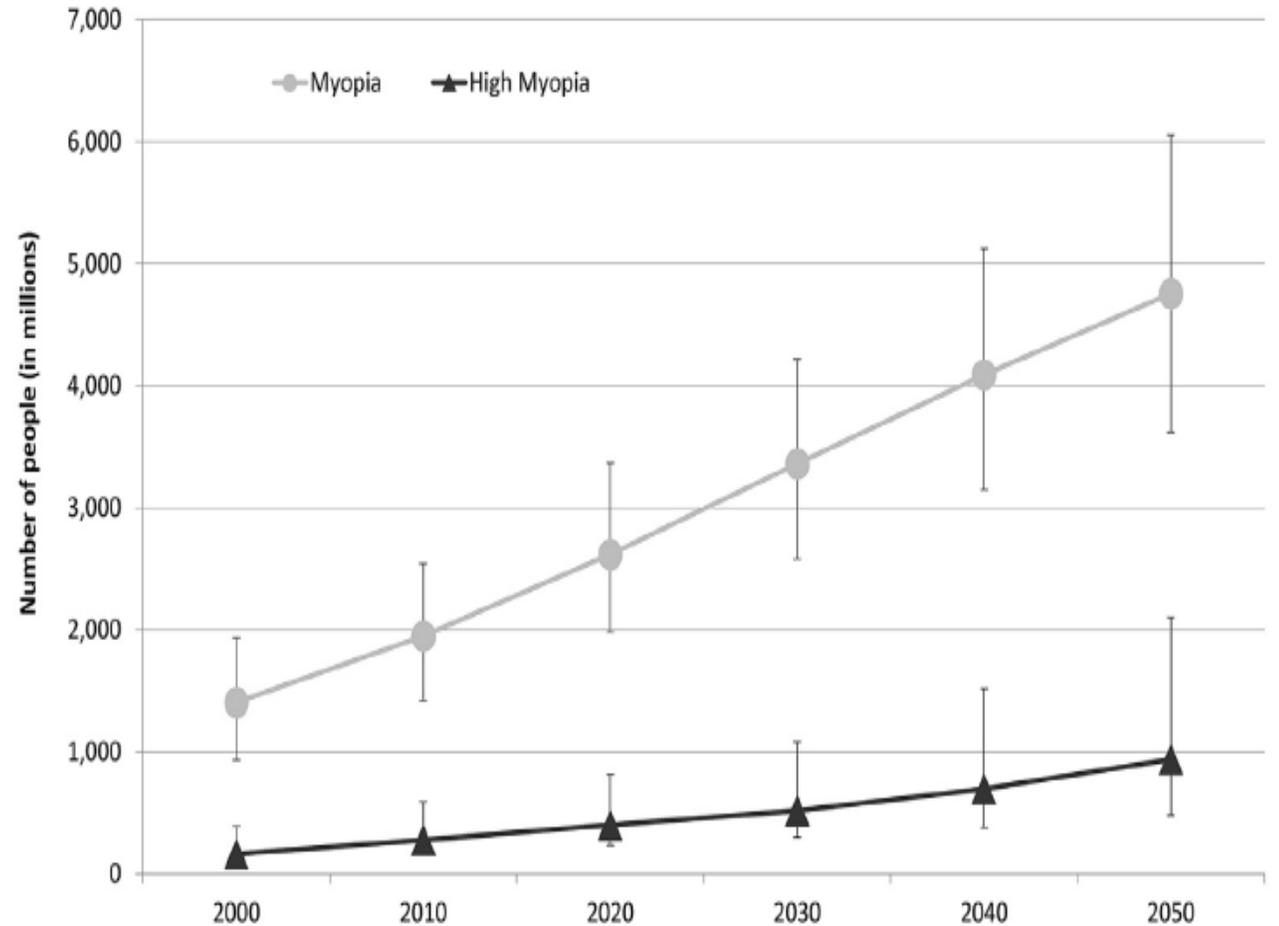
Global trends in myopia management attitudes and strategies in clinical practice. - Wolffsohn, Calossi, Cho, Logan, Santodomingo-Rubido et al. (2016). Contact Lens and Anterior Eye



Global Prevalence of Myopia and High Myopia and Temporal Trends from 2000 through 2050 - Holden, Fricke, Wilson, Jong et al. - 2016 by the American Academy of Ophthalmology

Myopia Global Trends

Myopia and high myopia estimates from 2000 to 2050 suggest significant increases in prevalence globally, with implications for planning services, including managing and preventing myopia related ocular complications and vision loss among almost **1 billion** people with high myopia.

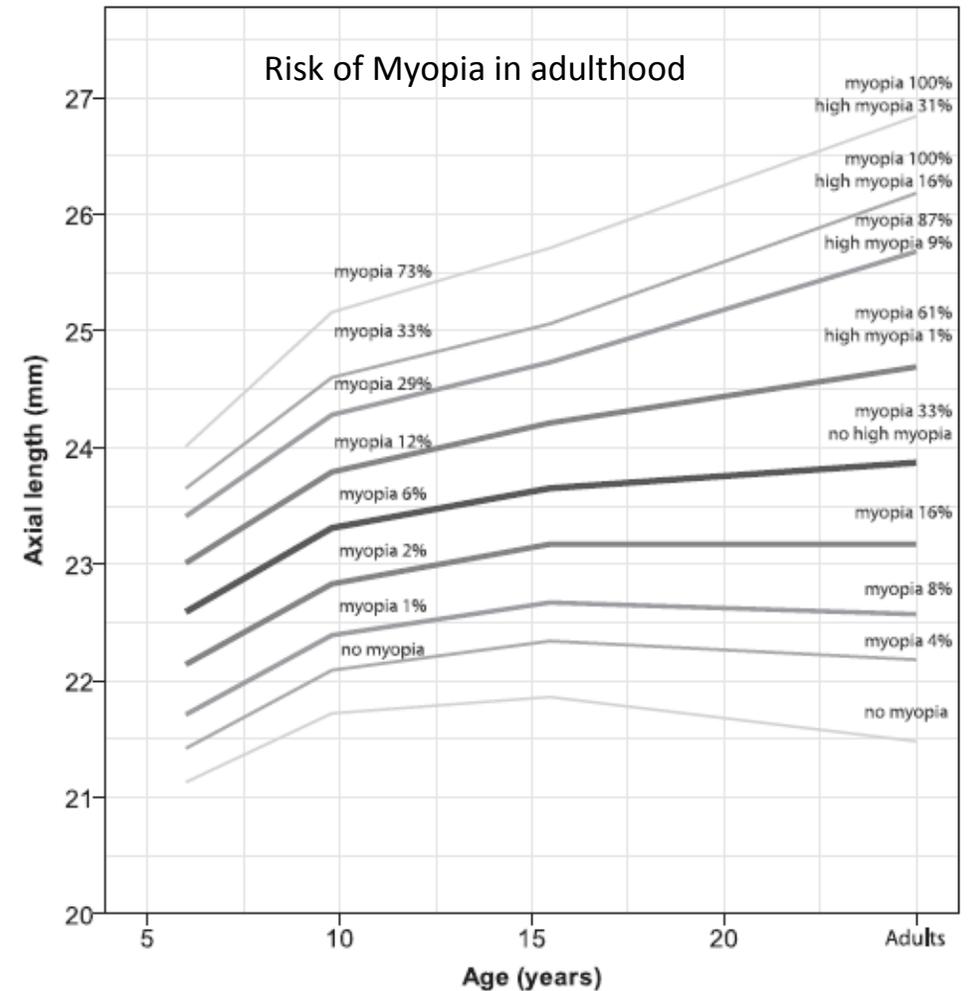
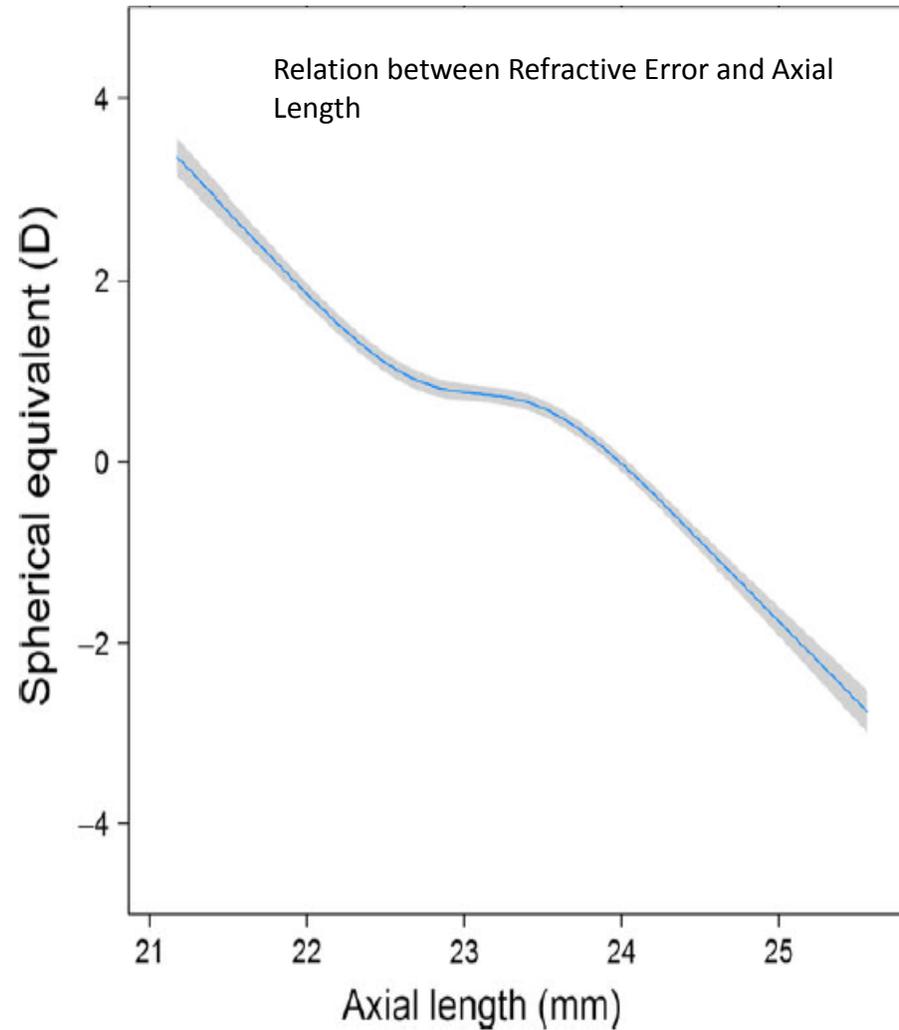


Global Prevalence of Myopia and High Myopia and Temporal Trends from 2000 through 2050 - Holden, Fricke, Wilson, Jong et al. - 2016 by the American Academy of Ophthalmology

Myopia Progression Markers

Axial Length

AL growth rate is the main indicator



Axial length growth and the risk of developing myopia in European children – Tideman, Williams, Guggenheim et al. – Acta Ophthalmologica 2018

Myopia Progression – Treatment

Atropine

(or pirenzepine)

Pros

High success rate

Cons

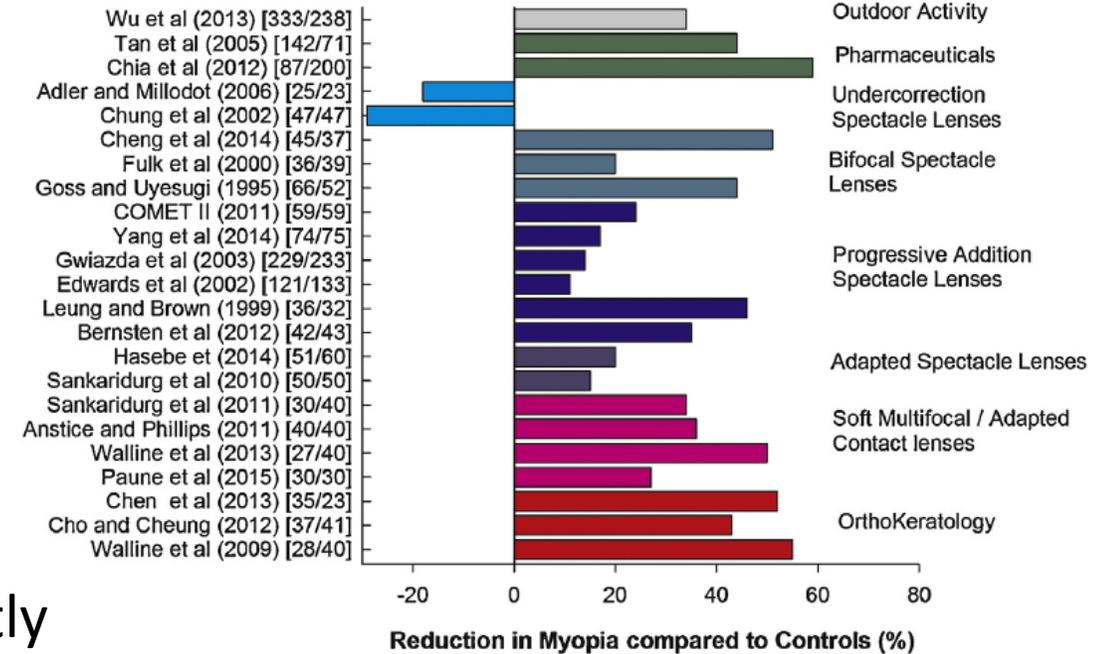
Side effects

Recent clinical trials demonstrated low-dose atropine eye drops such as 0.01% resulted in retardation of myopia progression, with significantly less side effects compared to higher concentration.

However, a proportion of patients are poor responders, in whom the optimal management remains unclear.

World Health Organization. The impact of myopia and high myopia. Geneva, Switzerland: WHO; 2016.

Author (year)[treatment/control subjects]



Myopia Progression – Treatment

Orthokeratology

Perceived effectiveness (defined as the expected level of reduction in childhood myopia progression in percent) of myopia control options by practitioners in different continents. Data are expressed as mean \pm S.D.

Continent		Asia	Australasia	Europe	North America	South America
Spectacles	Under-correction	6.5 \pm 13.9	2.5 \pm 7.4	6.4 \pm 15.8	2.9 \pm 7.9	13.4 \pm 23.1
	Single Vision	16.0 \pm 23.6	4.2 \pm 12.5	10.0 \pm 21.8	4.0 \pm 14.0	18.1 \pm 30.7
	Bifocals	18.4 \pm 21.1	14.1 \pm 14.8	12.4 \pm 17.5	11.6 \pm 14.4	12.3 \pm 24.2
	Progressive Addition (PALs)	21.3 \pm 21.2	16.0 \pm 14.0	14.7 \pm 18.6	11.3 \pm 13.5	12.8 \pm 24.8
Contact Lenses	Rigid Gas Permeable (RGP)	23.9 \pm 26.9	9.6 \pm 13.8	14.1 \pm 20.8	9.9 \pm 15.4	13.6 \pm 27.0
	Single Vision Soft	11.9 \pm 20.6	4.1 \pm 11.5	10.1 \pm 20.5	2.9 \pm 10.5	16.0 \pm 29.0
	Multifocal Soft	15.5 \pm 20.2	22.5 \pm 19.3	16.4 \pm 25.7	18.4 \pm 20.5	11.5 \pm 19.7
	Novel Myopia Control Soft	24.4 \pm 26.0	29.1 \pm 19.3	25.2 \pm 25.7	21.5 \pm 23.1	18.8 \pm 28.5
Pharmaceutical	Orthokeratology	48.6 \pm 29.6	47.8 \pm 25.3	44.3 \pm 29.0	36.9 \pm 30.1	23.9 \pm 32.3
		31.7 \pm 27.8	39.0 \pm 32.4	24.2 \pm 29.4	21.8 \pm 27.0	14.6 \pm 23.3
Refractive Surgery		17.4 \pm 29.7	11.4 \pm 24.3	12.8 \pm 25.6	13.5 \pm 30.6	18.0 \pm 29.4
Increased Time Outdoors		38.7 \pm 27.5	29.7 \pm 22.0	29.4 \pm 26.2	20.5 \pm 17.9	35.3 \pm 32.0

Orthokeratology (ortho-k), when used for partial or full correction of myopia, has been shown to slow myopic progression in children by 36-56% as compared to their spectacle or contact-lens wearing peers.

This effect is achieved by limiting the axial elongation of the eye, which is of particular concern in high myopes (>6.00D) and children, where myopic progression has been shown to proceed at a faster rate than average

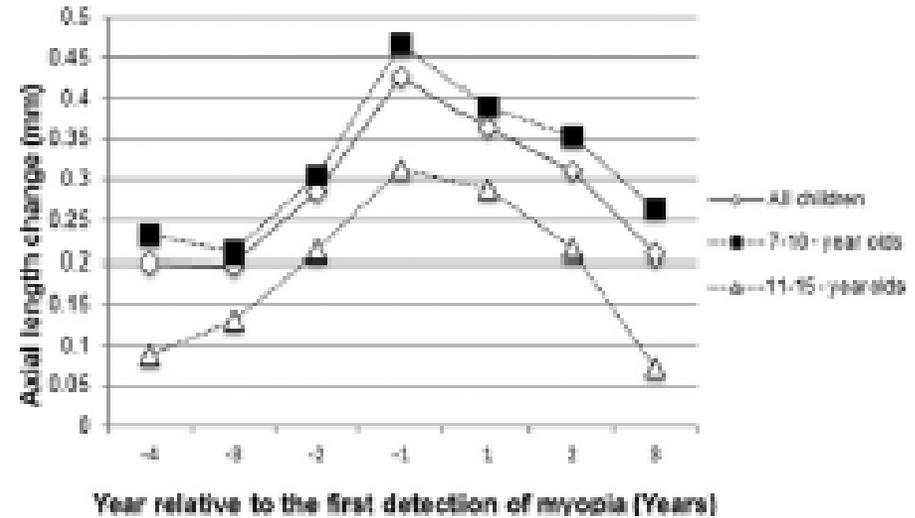
Charm J, Cho P. High myopia-partial reduction ortho-k: a 2-year randomized study. Optom Vis Sci. 2013 Jun;90(6):530-9. doi: 10.1097/OPX.0b013e3182936

Global trends in myopia management attitudes and strategies in clinical practice. - Wolffsohn, Calossi, Cho, Logan, Santodomingo-Rubido et al. (2016). Contact Lens and Anterior Eye

How to prevent

You can see myopia coming....

- Speeding up of rate of axial length change prior to onset of myopia (18 months before onset)
 - Particularly in younger children
 - Particularly in last year before onset



Measurements and reports are the key....

Thorough baseline data and follow-up

- Cycloplegic refraction
- Binocular status
- Topography
- Biometry

Goal of myopia researchers

- Develop optimized treatments for slowing the growth of the eyeball
 - Aimed at children aged 5-10 years of age
 - Possibly a combination of systemic drug, topical eye drop and contact lens
- Develop a screening device that can predict which children need treatment, even before they become myopic
 - Aim to screen age 4-6 years old, and treat BEFORE they become myopic
 - Refractive error
 - Biometry (axial length starts to expand at a faster rate than refractive error, in the 12-18 months before the eye first becomes myopic)

Look at the Aladdin as the perfect solution for myopia monitoring

- As an optical biometer the Aladdin with a periodic monitor of axial length can be a screening device that can predict which children need treatment, even before they become myopic
- As a corneal topographer and pupilometer the Aladdin provides support during myopic treatment with contact lenses for orthokeratology



ALADDIN Myopia Module

- Monitor Myopia Progression on patients under treatment
- Establish Myopia Progression alert rules
- Follow Orthokeratology treatment in detail
- Collect, manage and review data from other sources

OD PATIENT MYOPIA EXAMPLE 2006-11-11 OS

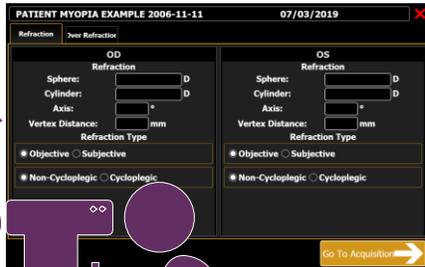
	Examination										
RX/AL	DATE	RX (D)	AL (mm)	ACD (mm)	LT (D)	VCD (mm)	LENS (D)	APP (D)			
RX	10/03/2011	0	25.05	3.45	4.3	17.3	+15	+44.5			
AL	10/10/2011	0	25.05	3.46	4.3	17.29	+14.9	+44.58			
ACD	10/04/2011	0	25.07	3.44	4.31	17.32	+14.87	+44.55			
LT	10/10/2011	0	25.08	3.45	4.29	17.34	+14.91	+44.5			
VCD	10/04/2011	0	25.1	3.47	4.32	17.31	+14.92	+44.45			
Lens	10/10/2011	0	25.1	3.47	4.32	17.31	+14.99	+44.4			
APP	10/04/2011	-0.25	25.12	3.46	4.31	17.35	+15.23	+44.45			
Ortho-K	10/10/2011	-0.25	25.14	3.47	4.31	17.36	+15.37	+44.3			
Data	10/04/2011	-0.25	25.15	3.48	4.3	17.37	+15.21	+44.4			
	10/10/2011	-0.25	25.16	3.47	4.31	17.38	+15.04	+44.5			
	04/05/2011	-0.5	25.22	3.48	4.32	17.42	+15.56	+44.25			
	15/07/2011	-0.75	25.3	3.47	4.31	17.52	+15.6	+44.3			

Base Line 10/03/2010

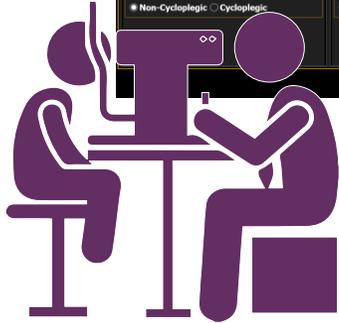
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10/04/11	0.00	25.07	3.44	4.31	17.32	14.87	44.55
10/10/11	0.00	25.08	3.45	4.29	17.34	14.91	44.50
10/04/11	0.00	25.10	3.47	4.32	17.31	14.92	44.45
10/10/11	0.00	25.10	3.47	4.32	17.31	14.99	44.40
10/04/11	-0.25	25.12	3.46	4.31	17.35	15.23	44.45
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10/10/11	0.00	25.10	3.47	4.32	17.31	14.99	44.40
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Myopia Module Workflow

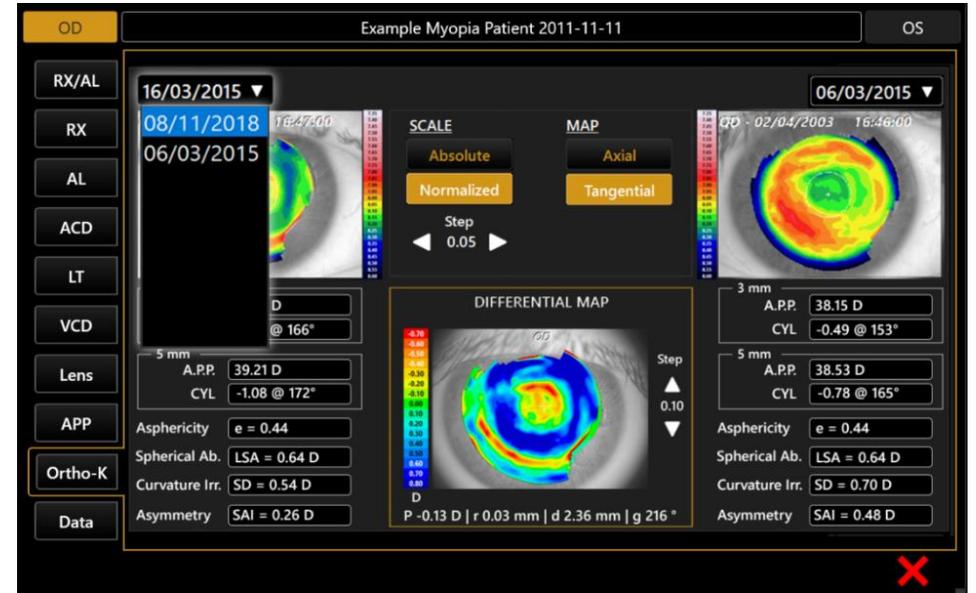
Refractive Error measurement



Biometry measurement



Follow Up

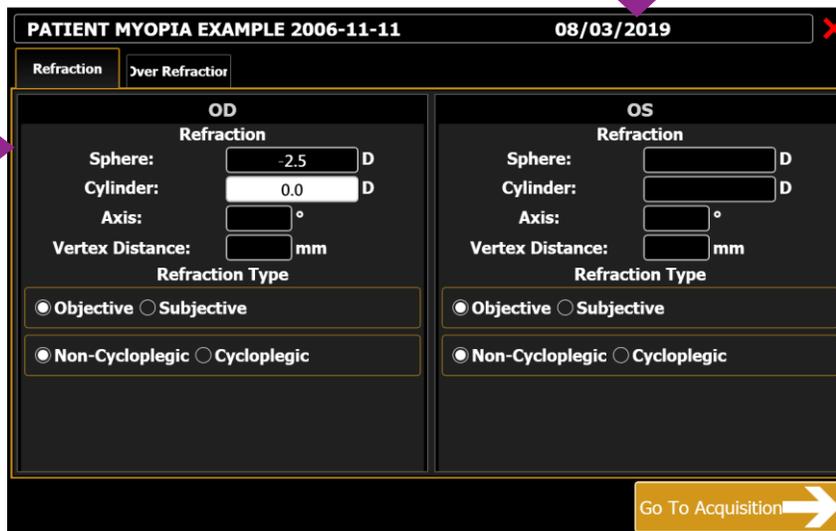


Analyse & Treat

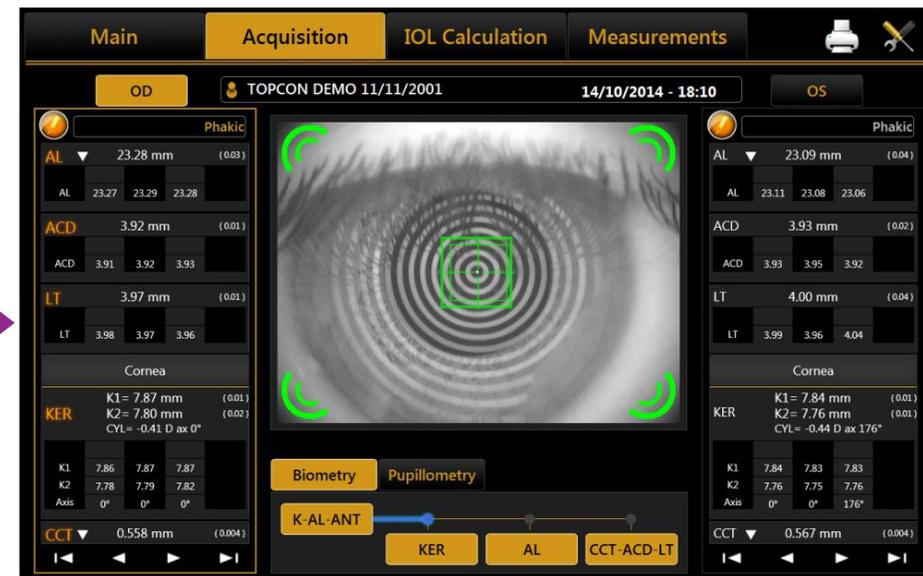
Acquisition Flow



Subjective/Objective Refraction



Refraction data input
(handles also Over Refraction
in case of Ortho-K treatment)



Topography+Biometry
acquisition

Data Review

03/07/2019 18:30

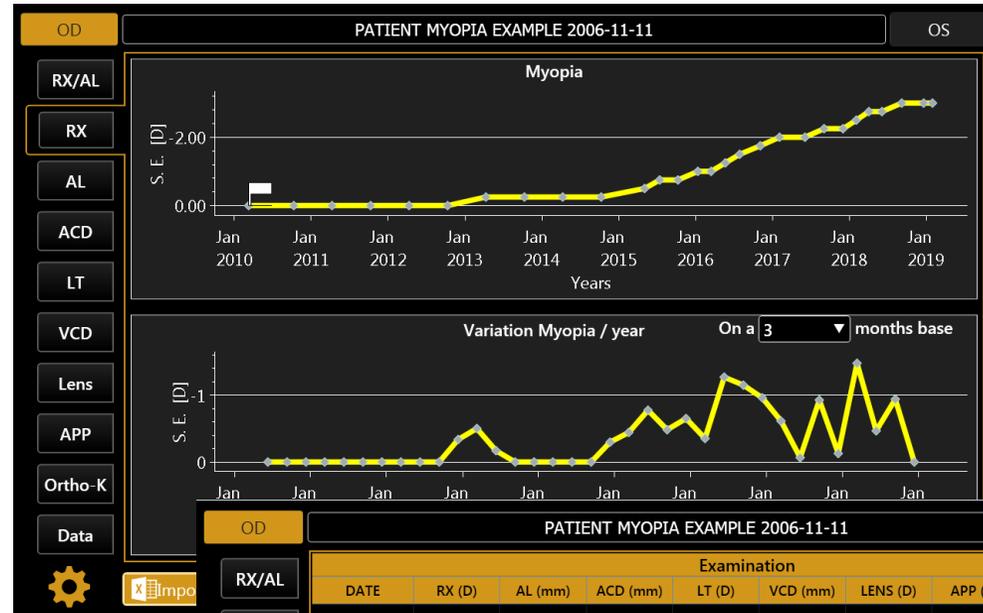
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 IIII MMMM
 Surname MiddleName FirstN:
 Surname FirstName MiddleN:
 TTT HHH

PATIENT
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 Name PATIENT
 Date of Birth 11/11/2006
 ID MYOPAT20061111
 Gender Male Female

EXAM LIST
 03/07/2019 10:32:00

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 Z X C V B N M



03/07/2019 18:29

Last Name
 ID

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 TEST TEST
MYOPIA EXAMPLE PATIENT
 IIII MMMM
 Surname MiddleName FirstN:
 Surname FirstName MiddleN:
 TTT HHH

PATIENT
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 Z X C V B N M

OD PATIENT MYOPIA EXAMPLE 2006-11-11 OS

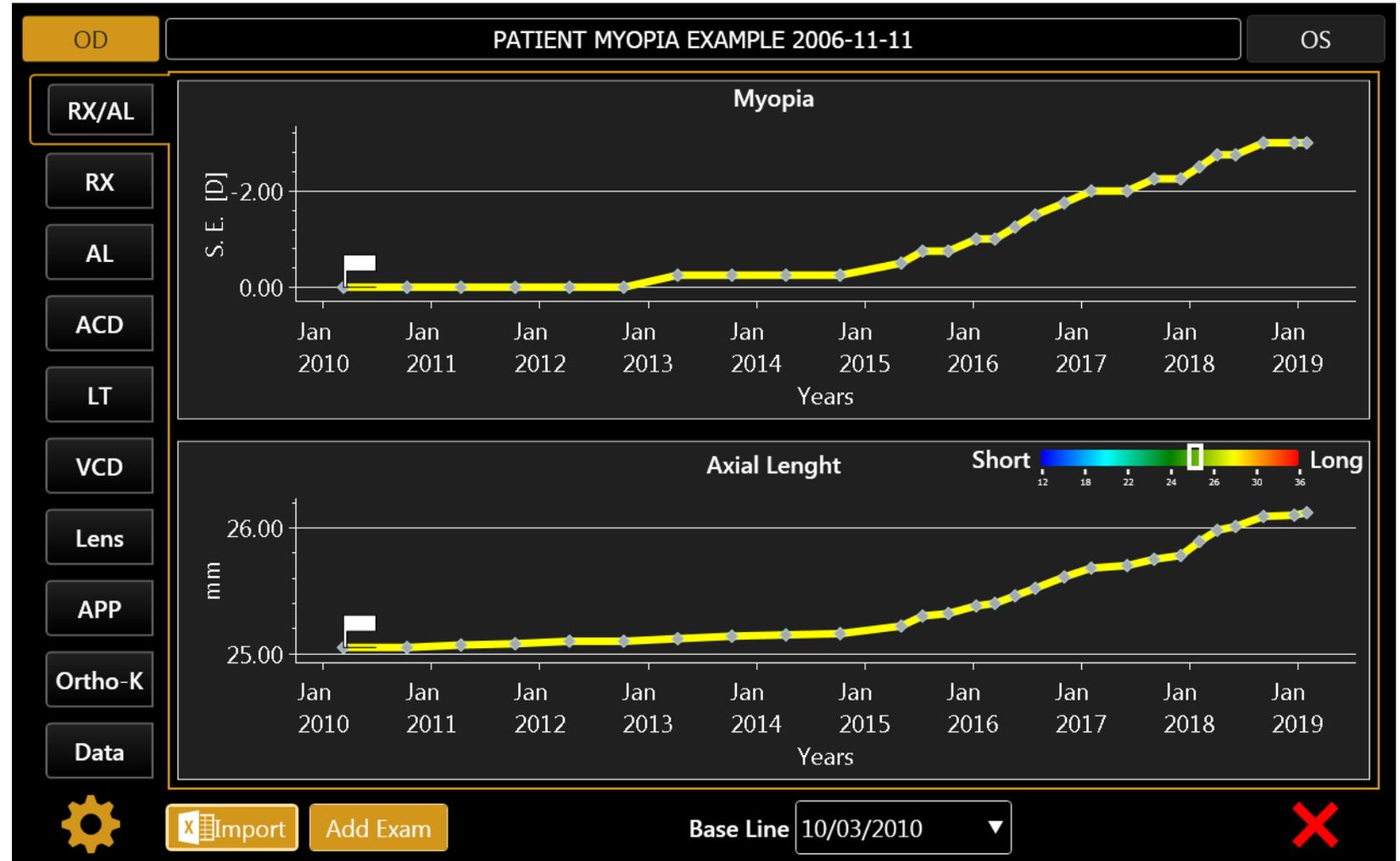
RX/AL
RX
AL
ACD
LT
VCD
Lens
APP
Ortho-K
Data

	DATE	RX (D)	AL (mm)	ACD (mm)	LT (D)	VCD (mm)	LENS (D)	APP (D)			
RX	10/03/2010	0	25.05	3.45	4.3	17.3	+15	+44.5			
RX	10/10/2010	0	25.05	3.46	4.3	17.29	+14.9	+44.58			
AL	10/04/2011	0	25.07	3.44	4.31	17.32	+14.87	+44.55			
ACD	10/10/2011	0	25.08	3.45	4.29	17.34	+14.91	+44.5			
LT	10/04/2012	0	25.1	3.47	4.32	17.31	+14.92	+44.45			
VCD	10/10/2012	0	25.1	3.47	4.32	17.31	+14.99	+44.4			
Lens	10/04/2013	-0.25	25.12	3.46	4.31	17.35	+15.23	+44.45			
Lens	10/10/2013	-0.25	25.14	3.47	4.31	17.36	+15.37	+44.3			
APP	10/04/2014	-0.25	25.15	3.48	4.3	17.37	+15.21	+44.4			
APP	10/10/2014	-0.25	25.16	3.47	4.31	17.38	+15.04	+44.5			
Ortho-K	04/05/2015	-0.5	25.22	3.48	4.32	17.42	+15.56	+44.25			
Ortho-K	15/07/2015	-0.75	25.3	3.47	4.31	17.52	+15.6	+44.3			

Base Line 10/03/2010

Refraction and Axial Length Trends

Review absolute trends by date or by patient age

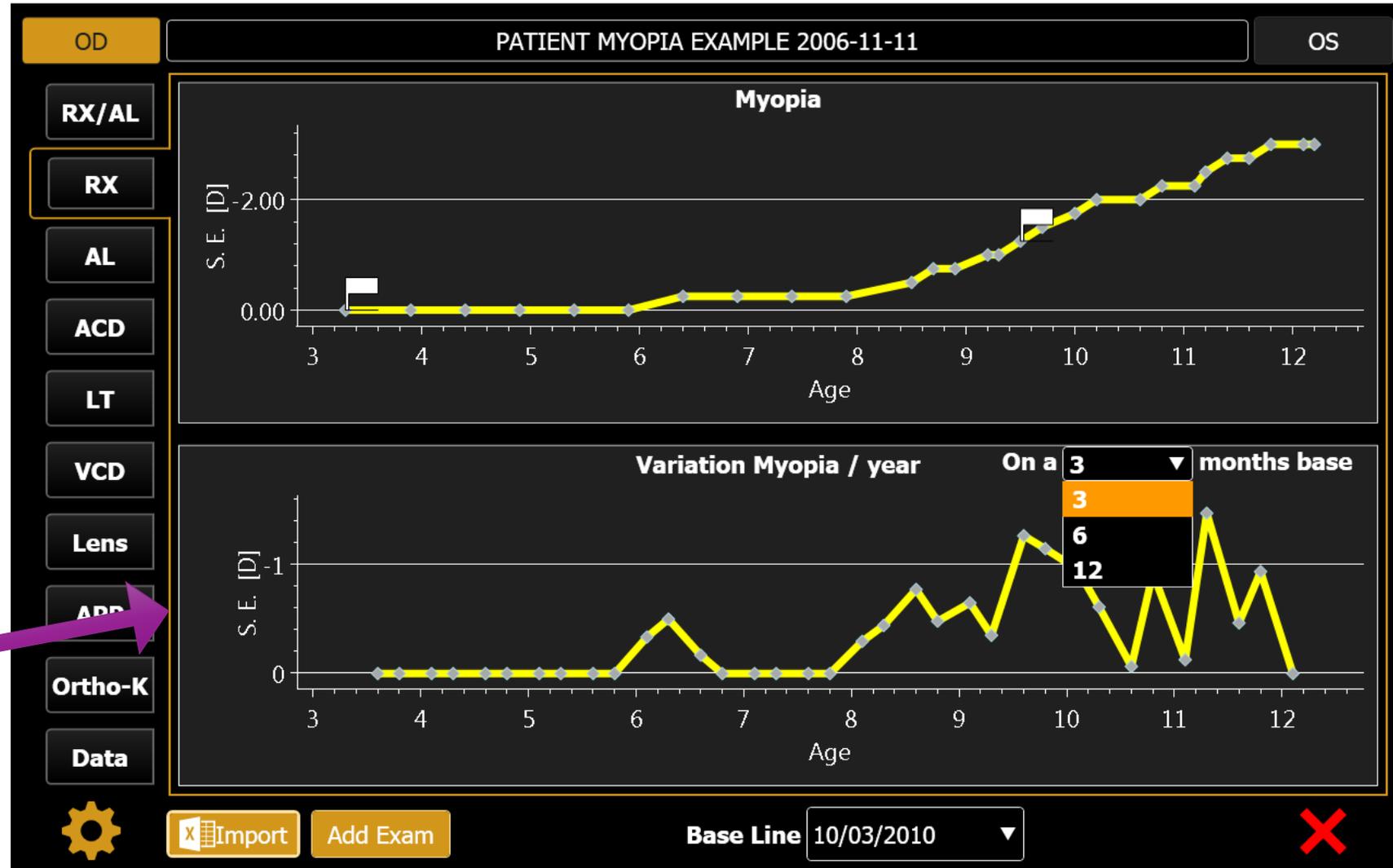


Refractive Error progression

Refraction S.E.

Review absolute trend together with yearly growth calculated on a 3/6/12 months basis

Time-wise yearly variation

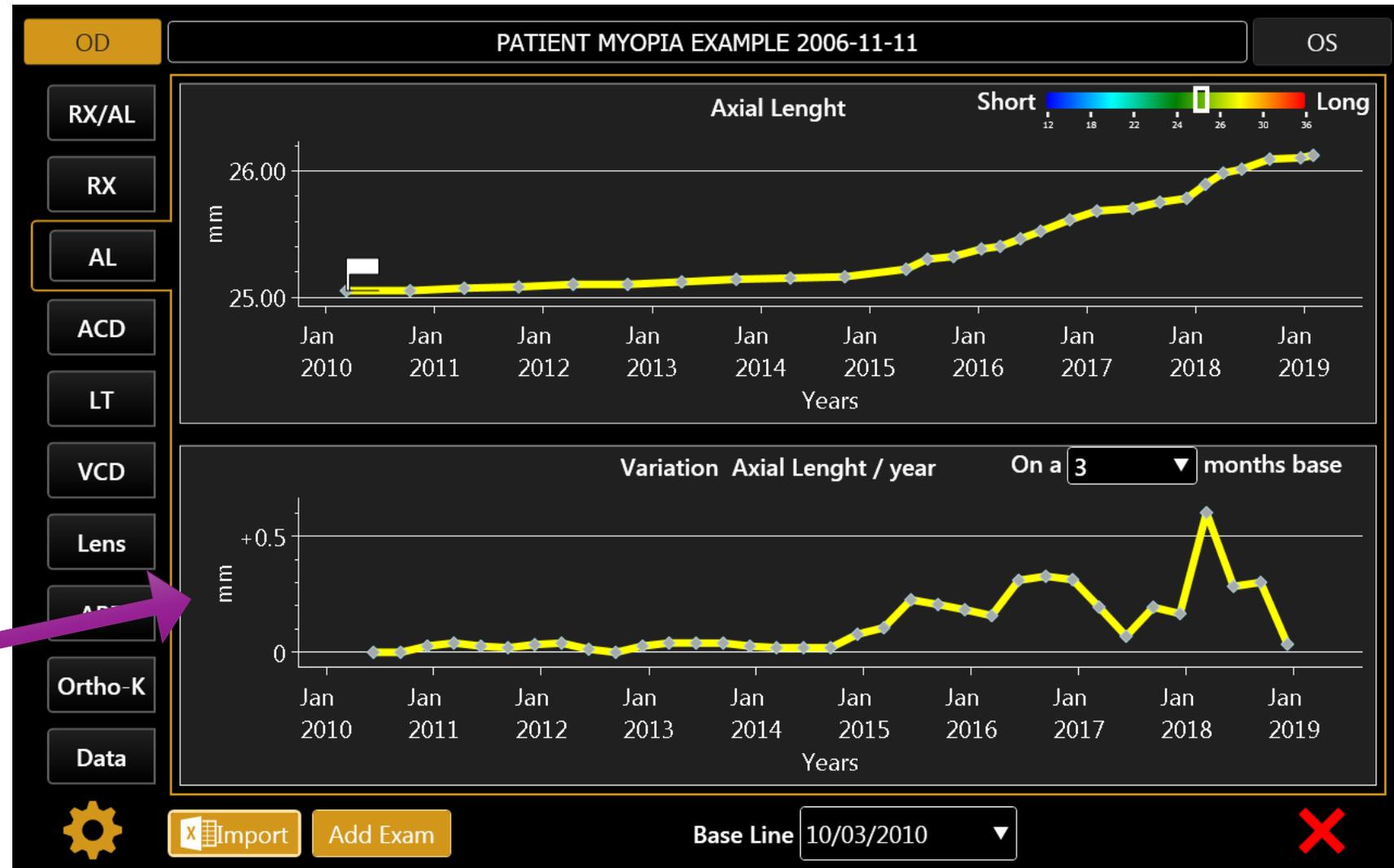


Axial Length progression

Axial Length

Review absolute trend together with yearly growth calculated on a 3/6/12 months basis

Time-wise yearly variation



Axial Sections yearly progression

ACD

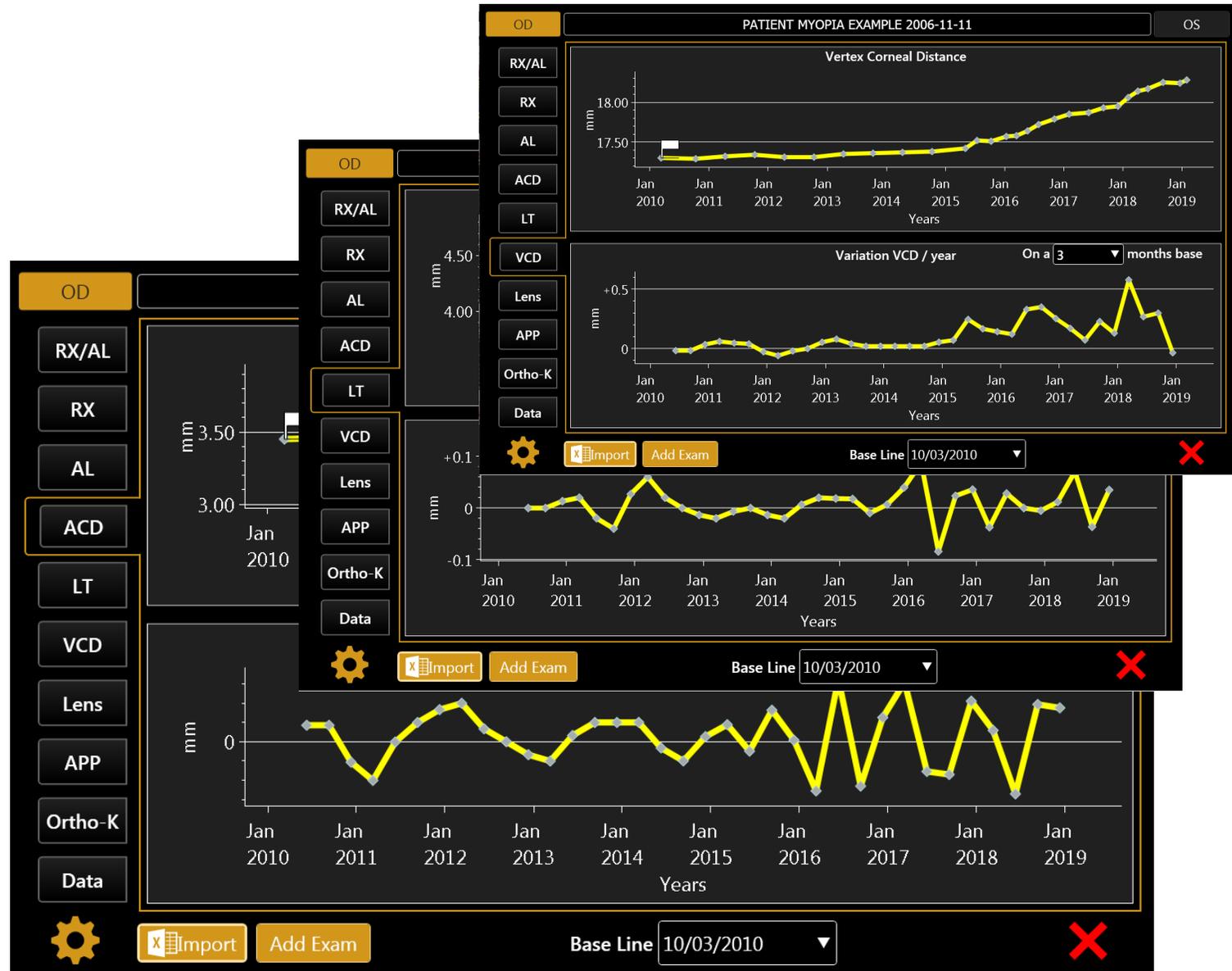
LT

VCD

Axial sections decomposed

Absolute trends over
Time-wise yearly
variations

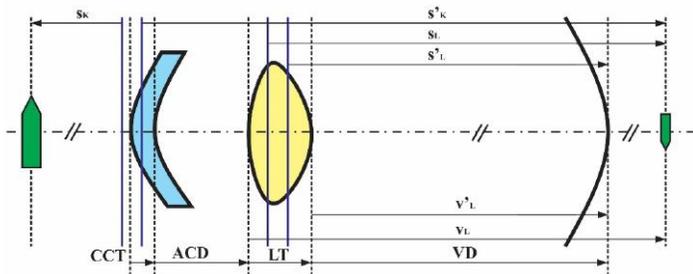
Push forward your
knowledge on Myopia
progression



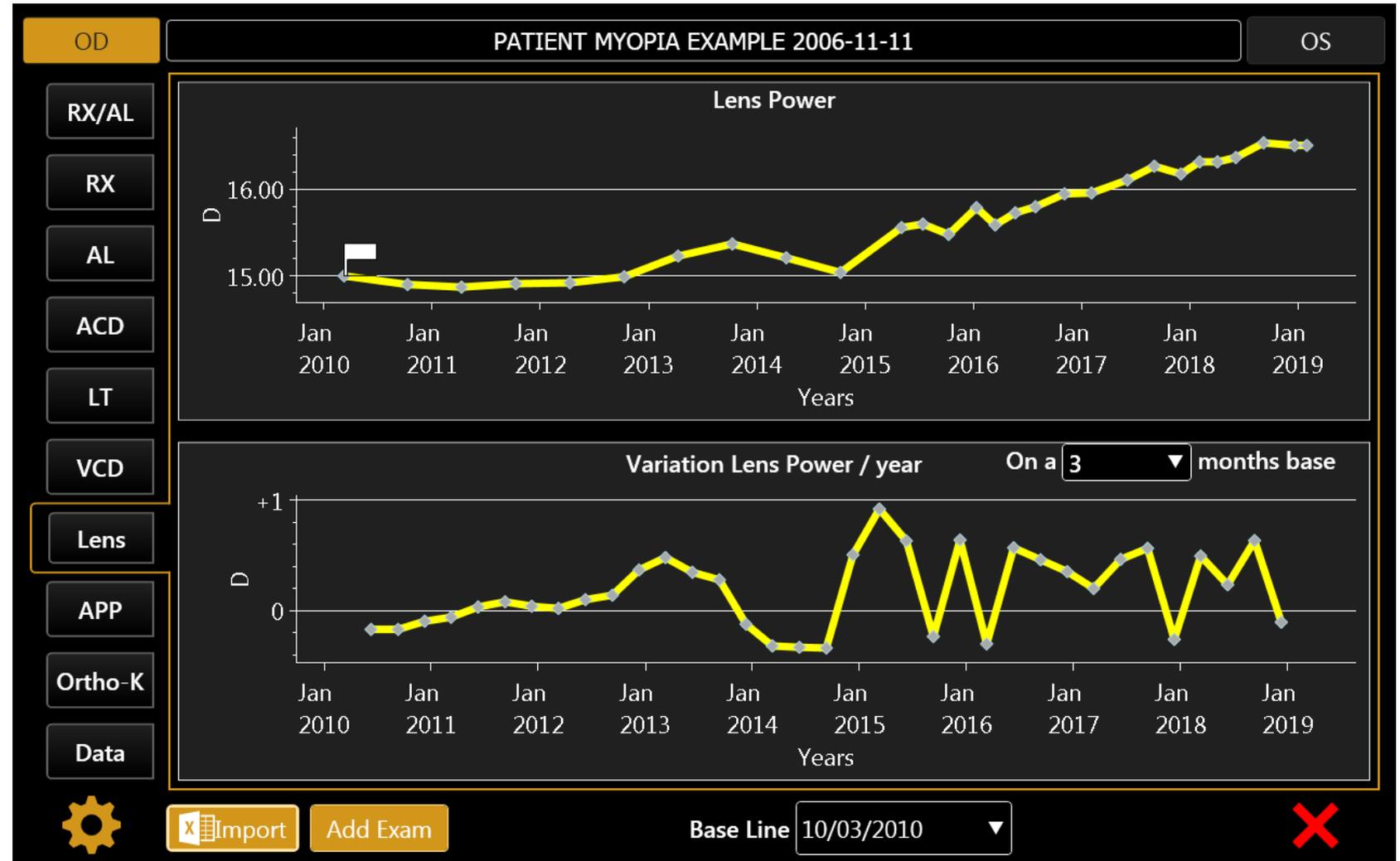
Lens Power progression

Lens Power variations

Observe variations of crystalline lens power over time



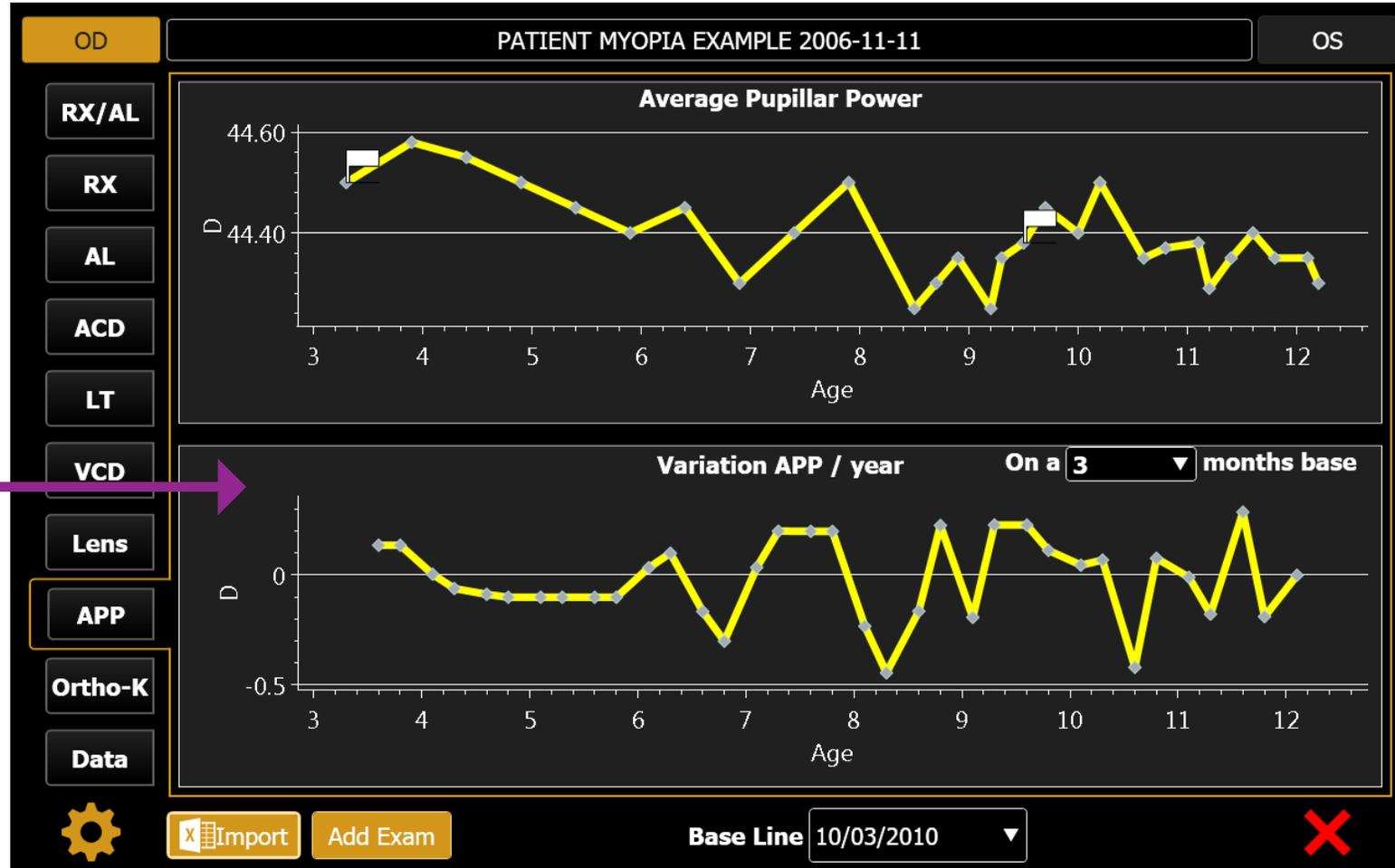
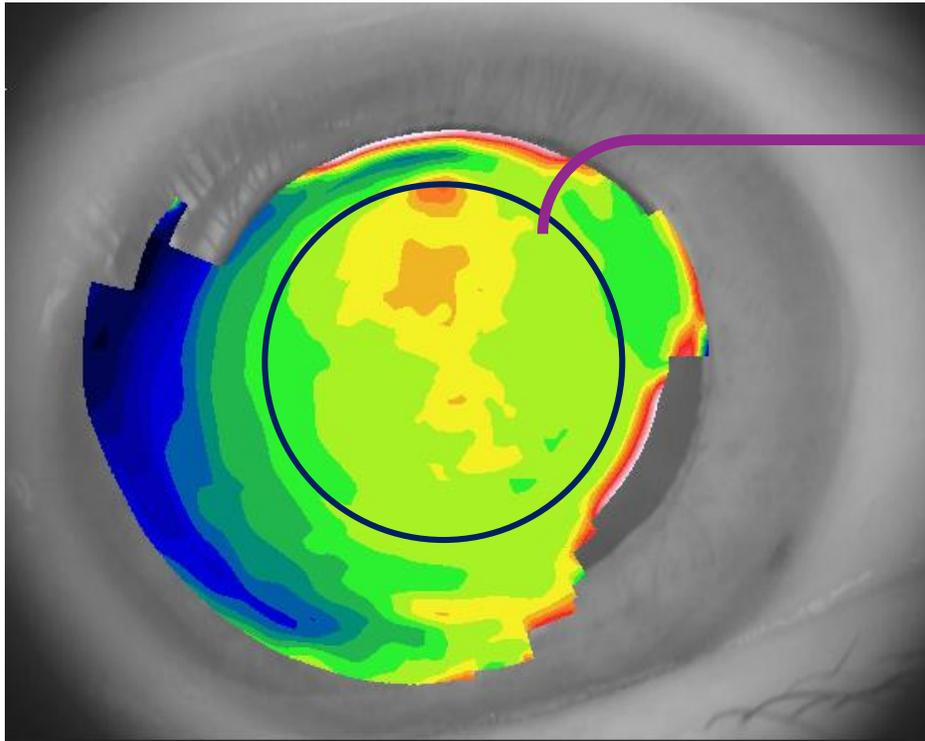
BENNET Formula



Average Pupillar power progression

A.P.P.

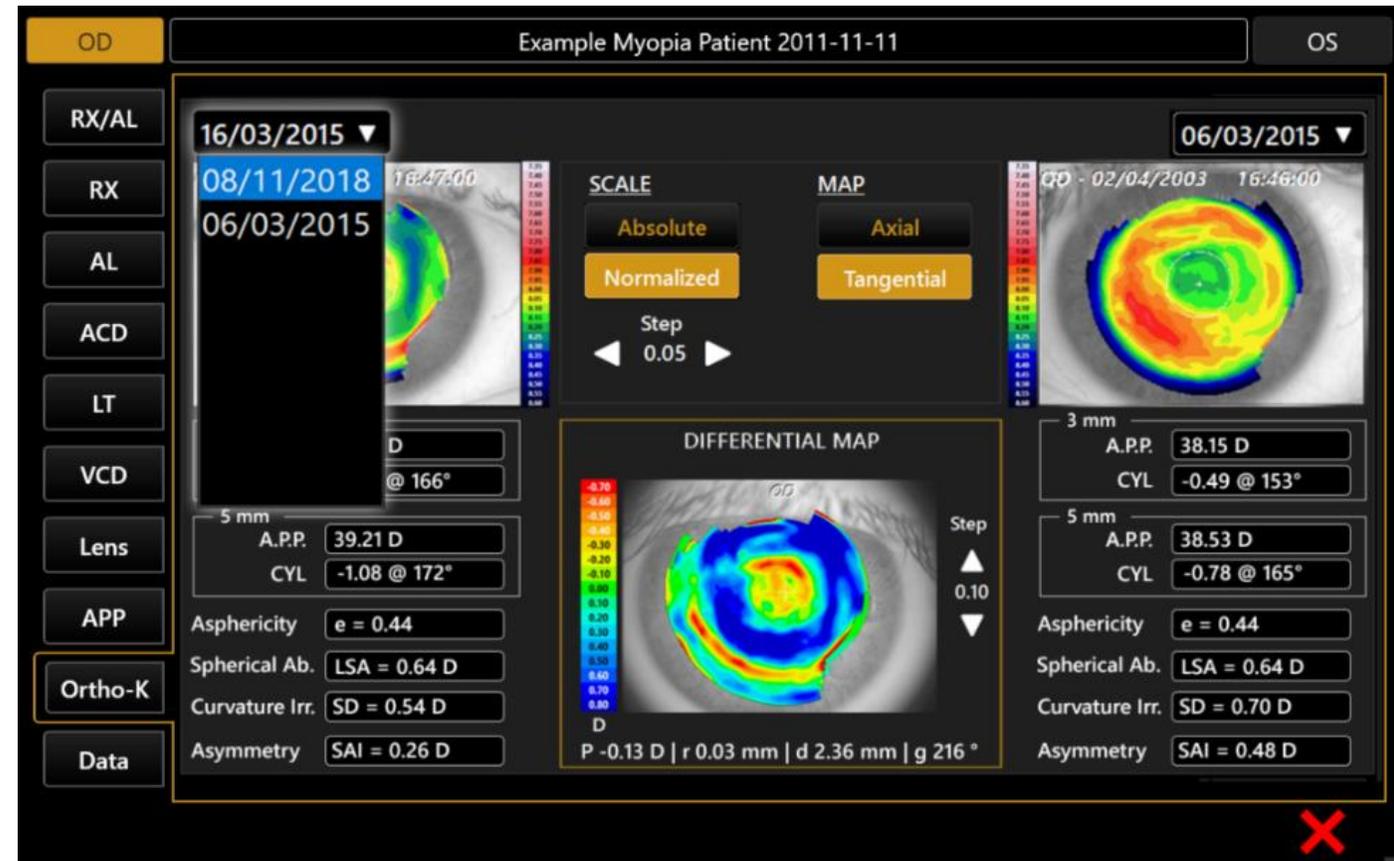
Average Pupillar Power



Ortho-K treatment Follow Up

Combine
Myopia Progression Follow Up
with
Orthokeratology Treatment
control

- Corneal Topography Overview
- Keratorefractive Indexes
 - Average Pupillar Power
 - Asphericity
 - Spherical Aberration
 - Asymmetry
 - Curvature Irregularity



- Differential Map



Import Data

	A	B	C	D	E	F	G	H	I
1	Date	Rx	AL	ACD	LT	VCD	Lens	APP	Note
2	10/03/10	0.00	25.05	3.45	4.30	17.30	15.00	44.50	
3	10/10/10	0.00	25.05	3.46	4.30	17.29	14.90	44.58	
4	10/04/11	0.00	25.07	3.44	4.31	17.32	14.87	44.55	
5	10/10/11	0.00	25.08	3.45	4.29	17.34	14.91	44.50	
6	10/04/12	0.00	25.10	3.47	4.32	17.31	14.92	44.45	
7	10/10/12	0.00	25.10	3.47	4.32	17.31	14.99	44.40	
8	10/04/13	-0.25	25.12	3.46	4.31	17.35	15.23	44.45	
9	10/10/13	-0.25	25.14	3.47	4.31	17.36	15.37	44.30	
10	10/04/14	-0.25	25.15	3.48	4.30	17.37	15.21	44.40	
11	10/10/14	-0.25	25.16	3.47	4.31	17.38	15.04	44.50	
12	04/05/15	-0.50	25.22	3.48	4.32	17.42	15.56	44.25	Start Atropine 0.01%
13	15/07/15	-0.75	25.30	3.47	4.31	17.52	15.60	44.30	
14	10/10/15	-0.75	25.32	3.49	4.32	17.51	15.48	44.35	
15	12/01/16	-1.00	25.38	3.48	4.33	17.57	15.79	44.25	Stop Atropine
16	15/03/16	-1.00	25.40	3.47	4.35	17.58	15.59	44.35	
17	22/05/16	-1.25	25.46	3.49	4.33	17.64	15.73	44.38	
18	29/07/16	-1.50	25.52	3.48	4.32	17.72	15.80	44.45	Start Orthokeratology
19	04/11/16	-1.75	25.61	3.47	4.35	17.79	15.95	44.40	
20	03/02/17	-2.00	25.68	3.50	4.32	17.85	15.96	44.50	

DATE	RX (D)	AL (mm)	ACD (mm)	LT (D)	VCD (mm)	LENS (D)	APP (D)
10/03/2010	0	25.05	3.45	4.3	17.3	+15	+44.5
10/10/2010	0	25.05	3.46	4.3	17.29	+14.9	+44.58
10/04/2011	0	25.07	3.44	4.31	17.32	+14.87	+44.55
10/10/2011	0	25.08	3.45	4.29	17.34	+14.91	+44.5
10/04/2012	0	25.10	3.47	4.32	17.31	+14.92	+44.45
10/10/2012	0	25.10	3.47	4.32	17.31	+14.99	+44.4
10/04/2013	-0.25	25.12	3.46	4.31	17.35	+15.23	+44.45
10/10/2013	-0.25	25.14	3.47	4.31	17.36	+15.37	+44.3
10/04/2014	-0.25	25.15	3.48	4.30	17.37	+15.21	+44.4
10/10/2014	-0.25	25.16	3.47	4.31	17.38	+15.04	+44.5
04/05/2015	-0.5	25.22	3.48	4.32	17.42	+15.56	+44.25
15/07/2015	-0.75	25.3	3.47	4.31	17.52	+15.6	+44.3

Import any pre-existing history into the Aladdin Myopia Module using a simple format

Manage Data



- Add New Data Manually



- Edit/Delete Existing Data

Date: 03/07/2019 07

Biometry

AL: mm

ACD: mm

CCT: mm

LT: mm

Keratometry

K1: D

K2: D

Axis: °

Pupillometry

APP: D

Refraction

Sphere: D

Cylinder: D

Axis: °

Vertex Distance: mm

Refraction Type

Objective Subjective

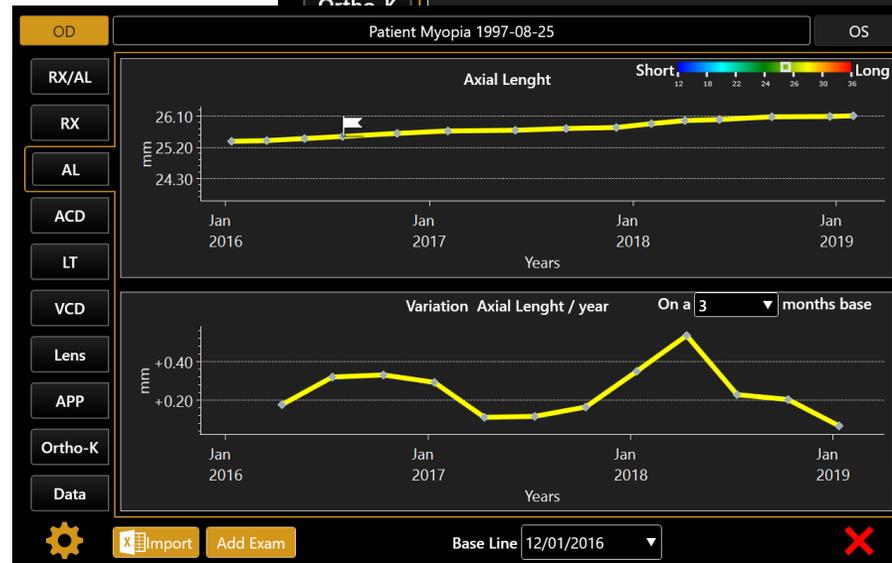
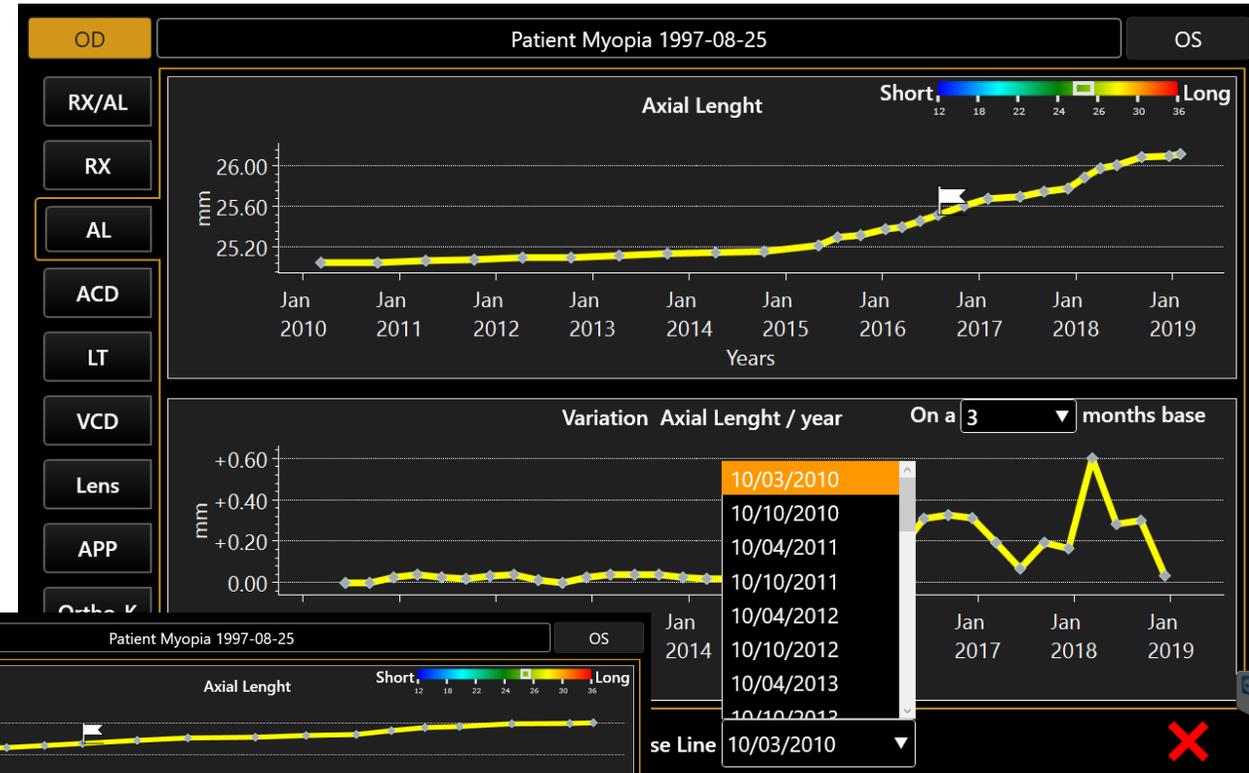
Non-Cycloplegic Cycloplegic

Note

Cancel Save

Progression Baseline

Change Baseline for the progression trends to a custom date during the follow Up



Decision tracking support

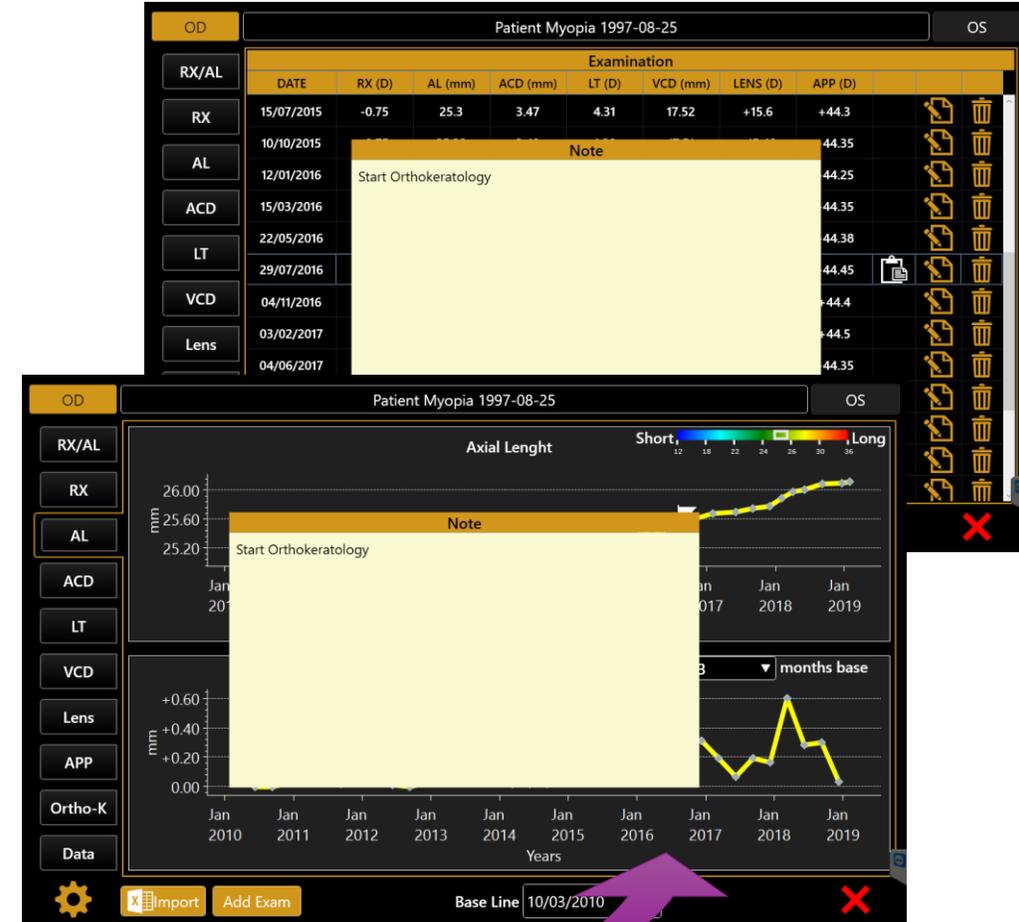
Add Custom Notes in
correspondence of Dates

Review them on the trends
charts

Note

Start Orthokeratology

1 2 3 4 5 6 7 8 9 0 ←
q w e r t y u i o p
a s d f g h j k l ↵
↑ z x c v b n m *?



Report

Export Myopia Module Follow Up

Show effectiveness of the treatment

Myopia yearly variation

Axial Length yearly variation

Axial length trend over Myopia risk map

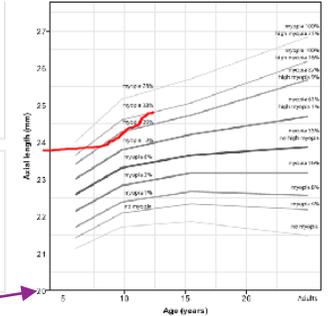
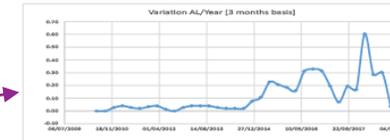
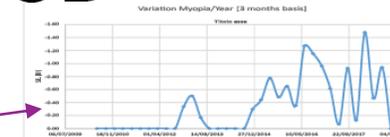
Data with Annotations



Patient : MYOPIA EXAMPLE PATIENT
 Patient ID : MYOPAT20061111
 Date Of Birth : 11/11/2006
 (mm/dd/yyyy)

Date : 03/07/2019 - 10:32
 (mm/dd/yyyy)

OD Baseline: 03/10/2010



Date	Refr. [D]	AL [mm]	ACD [mm]	LT [mm]	VCD [mm]	Lens [D]	APP [D]	Note
10/07/10	0.00	20.05	3.45	4.30	17.30	10.00	44.50	
10/10/10	0.00	20.08	3.46	4.30	17.29	10.00	44.58	
10/04/11	0.00	20.07	3.44	4.21	17.32	10.00	44.55	
10/10/11	0.00	20.08	3.45	4.20	17.34	10.01	44.50	
10/09/12	0.00	20.10	3.47	4.27	17.41	10.02	44.46	
10/09/13	-0.25	20.12	3.46	4.31	17.55	10.23	44.45	
10/09/13	0.25	20.14	3.47	4.21	17.26	10.27	44.20	
10/09/14	-0.25	20.15	3.48	4.30	17.87	10.21	44.40	
10/09/14	0.25	20.16	3.47	4.21	17.38	10.24	44.50	
04/05/15	0.50	20.22	3.48	4.32	17.42	10.56	44.25	Start Atropine: 0.01%
10/09/15	-0.15	20.30	3.47	4.32	17.51	10.48	44.25	
13/01/16	-1.00	20.58	3.48	4.38	17.87	10.25	44.25	Susp Atropine
11/09/16	1.00	20.40	3.47	4.25	17.38	10.29	44.25	
13/08/16	-1.25	20.48	3.45	4.38	17.84	10.23	44.25	
29/03/16	1.50	20.57	3.48	4.37	17.77	10.00	44.40	Start Orthokeratology
04/11/16	1.75	20.61	3.47	4.35	17.75	10.55	44.40	
03/10/17	-2.00	20.68	3.40	4.44	17.85	10.06	44.50	
04/06/17	2.00	20.70	3.49	4.34	17.87	10.11	44.25	
03/09/17	-2.25	20.75	3.48	4.34	17.73	10.27	44.37	
02/12/17	2.25	20.78	3.49	4.34	17.95	10.28	44.28	
03/07/18	-2.50	20.85	3.40	4.38	18.06	10.30	44.25	
18/04/18	2.25	20.90	3.49	4.35	18.14	10.17	44.15	
02/05/18	2.75	20.91	3.48	4.30	18.17	10.37	44.40	
07/09/18	-3.00	20.95	3.45	4.35	18.25	10.54	44.35	
20/12/18	3.00	20.10	3.50	4.30	18.24	10.51	44.25	
31/01/19	-3.00	20.12	3.45	4.35	18.28	10.51	44.30	

Myopia Control (V. 1.9.0 ALPHA0.1) SN: 2019/03/08 09:53:20

ALADDIN



Conclusions

- **Myopia monitoring is important**
- **The use of a biometer is required as a screening device**
- **The use of a corneal topographer is recommended for ortho-k treatment**
- **The Aladdin represent the ideal device to support myopia monitoring**

Availability

- The Myopia Module will be available for every Aladdin HW3.0 with Software Upgrade to version 1.9.0
- The MM entry point button in the patient list will be available if the Myopia Module is enabled from the settings. There will be a checkbox for enable/disable in the Settings

The screenshot displays the Aladdin software interface. At the top, there are tabs for 'New', 'Search', and 'Acquisition', along with a date and time display (05/05/2019 21:29) and a settings icon. The main area is divided into three sections: 'Last Name' search, 'PATIENT' details, and 'EXAM LIST'. The 'Last Name' search field contains 'MY' and has a dropdown menu with 'Myopia Patient' selected. The 'PATIENT' section shows details for a patient named 'Myopia' with a date of birth of 11/11/2011 and ID 'MyoPat20111111'. The 'EXAM LIST' section shows a single exam entry for '05/05/2019 17:41:00' with buttons for 'New Exam', 'Open', 'Delete', and 'Post Op'. A 'Myopia Control' button is highlighted with a green box. A virtual keyboard is visible at the bottom of the screen.

Thank you!

