

Evolving glaucoma management

True diagnostic integration
 for the preservation of vision



We make it visible.

// GLAUCOMA MANAGEMENT

MADE BY ZEISS

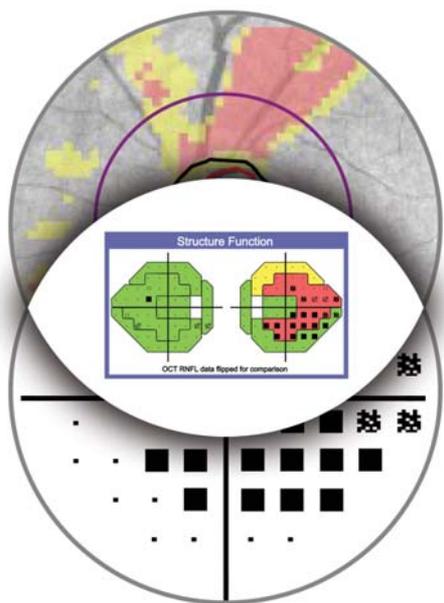


The moment you are certain it is glaucoma.
This is the moment we work for.

“There are multiple challenges for the doctor managing glaucoma: first, is to accurately diagnose and stage glaucoma; and, second, to quickly identify progression in those patients where therapy has been insufficient.”

— Nathan Radcliffe, MD

**It starts with HFA and OCT.
Then you add Combined Reports and the power of GPA.
Now, you are bringing even more to glaucoma management.**



Structure + Function

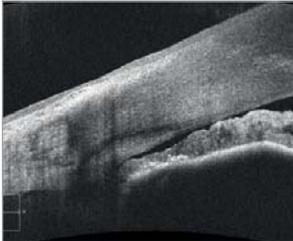
For many doctors, the management of glaucoma is evolving. By integrating key data sets, ZEISS is empowering you to see glaucoma in a whole new way. Gold standard complementary diagnostic technologies from ZEISS may help you identify those patients with glaucoma and then assess their rate of progression for better disease management. Add the ability to access this information when and where you need it and it's clear that glaucoma diagnosis and management is being transformed.

You + ZEISS = Evolving Glaucoma Management

For structure: Quantifying anatomical status and change.

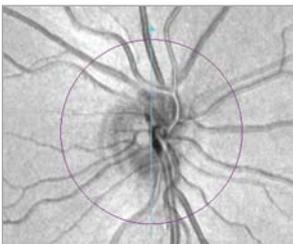
The one OCT. CIRRUS™.

The CIRRUS family is built upon the power of the densely-layered SmartCube™. Unique to ZEISS, SmartCube analyses with normative data rapidly configure results into informative maps, metrics and visualizations that help you detect glaucoma and clearly identify those patients who are progressing.



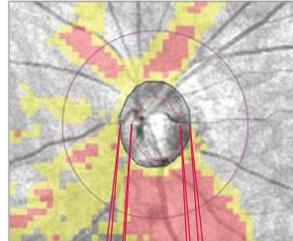
Anterior Segment Imaging

High resolution angle images help you identify and educate patients most at risk for closed angle glaucoma.



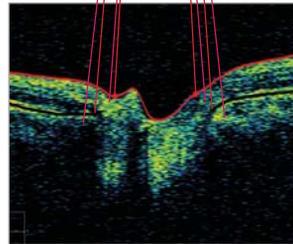
AutoCenter™

Fully-automated CIRRUS SmartCube analyses heighten efficiency and consistency: AutoCenter places the ONH and RNFL analyses on the disc.



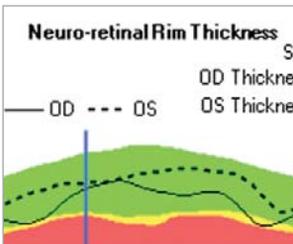
RNFL Assessment

CIRRUS SmartCube analysis reports RNFL thickness over the entire peripapillary area for a complete picture of differences from normal values.



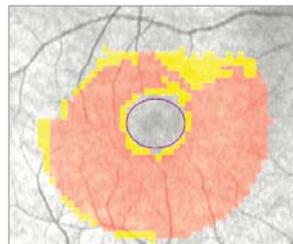
Optic Nerve Head Assessment

CIRRUS SmartCube anatomy-based ONH analyses account for complex disc morphology including tilted discs, atrophy and other challenging pathologies.



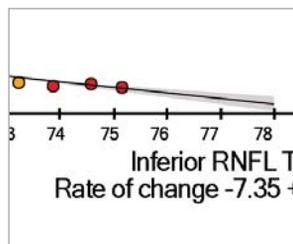
Normative Data

CIRRUS SmartCube powered Normative Data helps identify atypical results for Neuro-retinal Rim Area and Thickness, RNFL Thickness and Symmetry, Cup-to-Disc Ratios and Cup Volume.



Ganglion Cell Assessment

CIRRUS SmartCube macular data with automatically centered ganglion cell analysis can reveal changes in ganglion cell and inner plexiform layer that may or may not be present in the peripapillary RNFL.



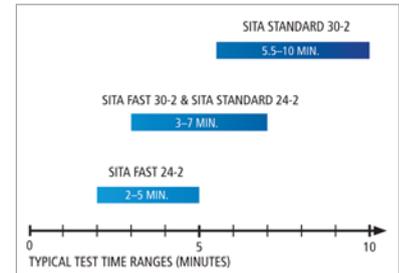
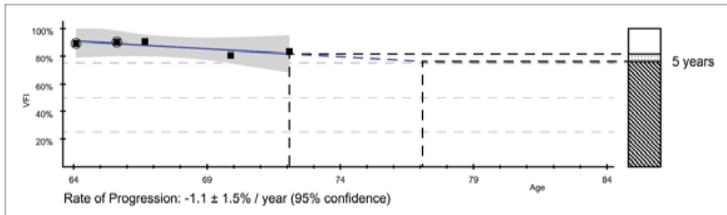
Guided Progression Analysis™ (GPA™)

ZEISS GPA identifies variances in RNFL and ONH values that show statistically significant change over time.

For function: Analyzing visual fields and progression.

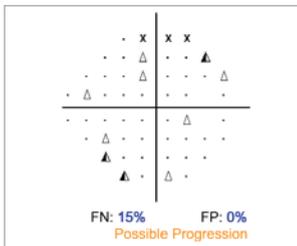
The one perimeter. HUMPHREY®

The visual field end-point in hundreds of studies, the HFA™ has been a part of virtually every major clinical trial in glaucoma for over 20 years. The HFA is the gold standard of perimetry and is a critical diagnostic partner in thousands of practices. Continuing to evolve - today, HFA delivers the interactive analysis you need, when and where you need it.



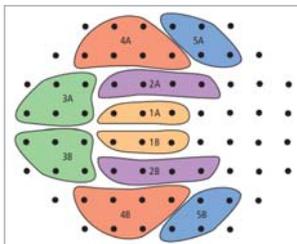
Visual Field Index™

VFI™ is a simple and intuitive global index. Its most powerful application is trending over time to project remaining vision. Patients can quickly perceive their risk with minimal explanation.



GPA Alert

Provides you with a message in simple language if statistically significant deterioration was identified in consecutive visits.



STATPAC™

The language of perimetry, STATPAC compares results to proprietary age normative and glaucoma databases.

SITA™ Strategies

Unsurpassed in efficiency, SITA is patient-responsive: it learns to perform as fast as the patient wants to go.



CIRRUS + HUMPHREY:
The gold standard for structure and function.

GPA for structure and function:

The certainty of knowing disease status and when to intervene.

Structural GPA with CIRRUS OCT.

GPA with CIRRUS OCT allows you to simply and easily capture, track and measure progression. Event analysis by CIRRUS differentiates normal change from abnormal change. Trend analysis measures change over time, which can help you understand if more aggressive therapy is required.

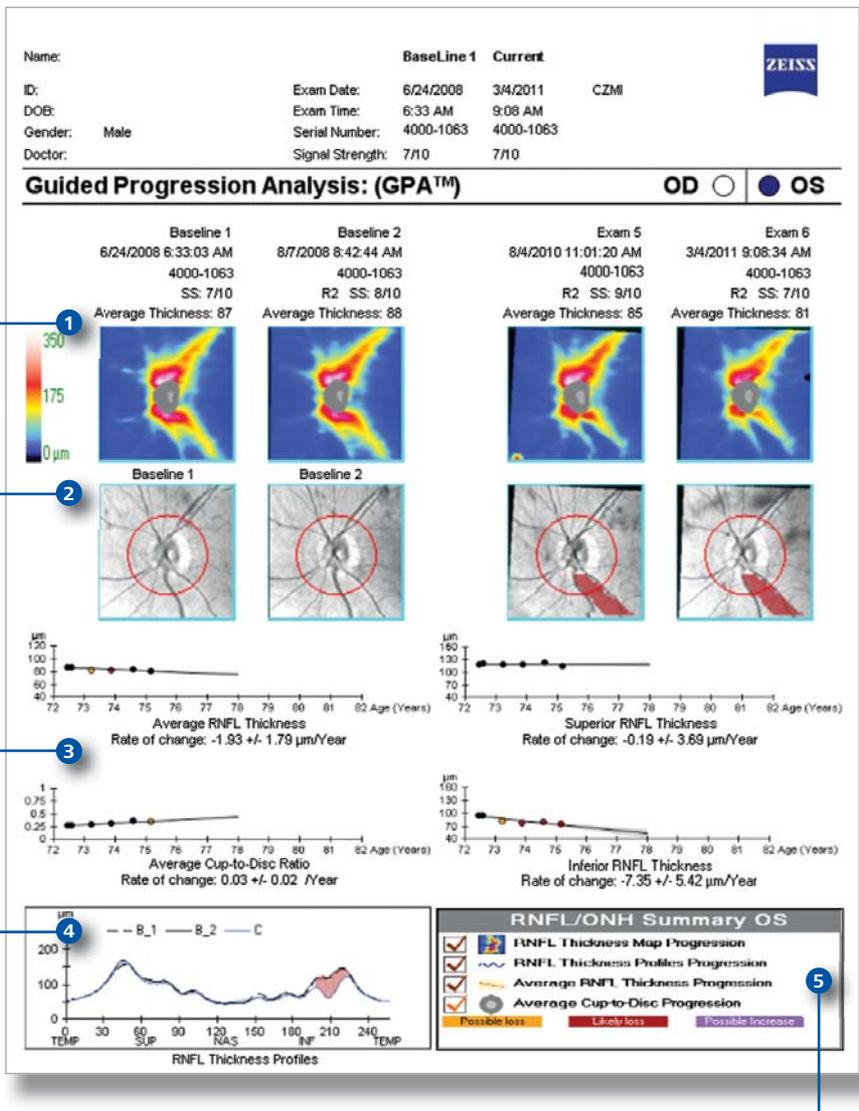
1 RNFL Thickness Maps provide a color-coded display of RNFL for two baseline exams and two most recent exams.

2 RNFL Thickness Change Maps demonstrate change in RNFL thickness. Up to 8 exams are automatically registered to baseline for precise point-to-point comparison.

3 RNFL Thickness (Average, Superior, and Inferior) and Average Cup-to-Disc Ratio values are plotted for each exam. Orange marker denotes change when it is first noted. Maroon marker denotes change sustained over consecutive visits.

4 RNFL Thickness Profiles TSNIT values from exams are plotted. Areas of statistically significant change are color-coded orange when first noted and maroon when the change is sustained over consecutive visits.

5 RNFL/ONH Summary summarizes Guided Progression Analysis (GPA) analyses and indicates with a check mark if there is possible or likely loss of RNFL:



- RNFL Thickness Map Progression (best for focal change)
- RNFL Thickness Profiles Progression (best for broader focal change)
- Average RNFL Thickness Progression (best for diffuse change)
- Average Cup-to-Disc Progression (best for global change)

Functional GPA with HUMPHREY®

GPA with HUMPHREY allows you to quickly and easily compare visual field status and progression to data collected from glaucoma subjects. GPA then uses simple language to help you understand statistically significant change as well as rate of change, and predict future vision quality.

1 Baseline Exams

Initial visual field status is established.

2 VFI Value

Visual field status expressed as a percent of normal age-adjusted visual field.

3 VFI Rate of Progression Analysis

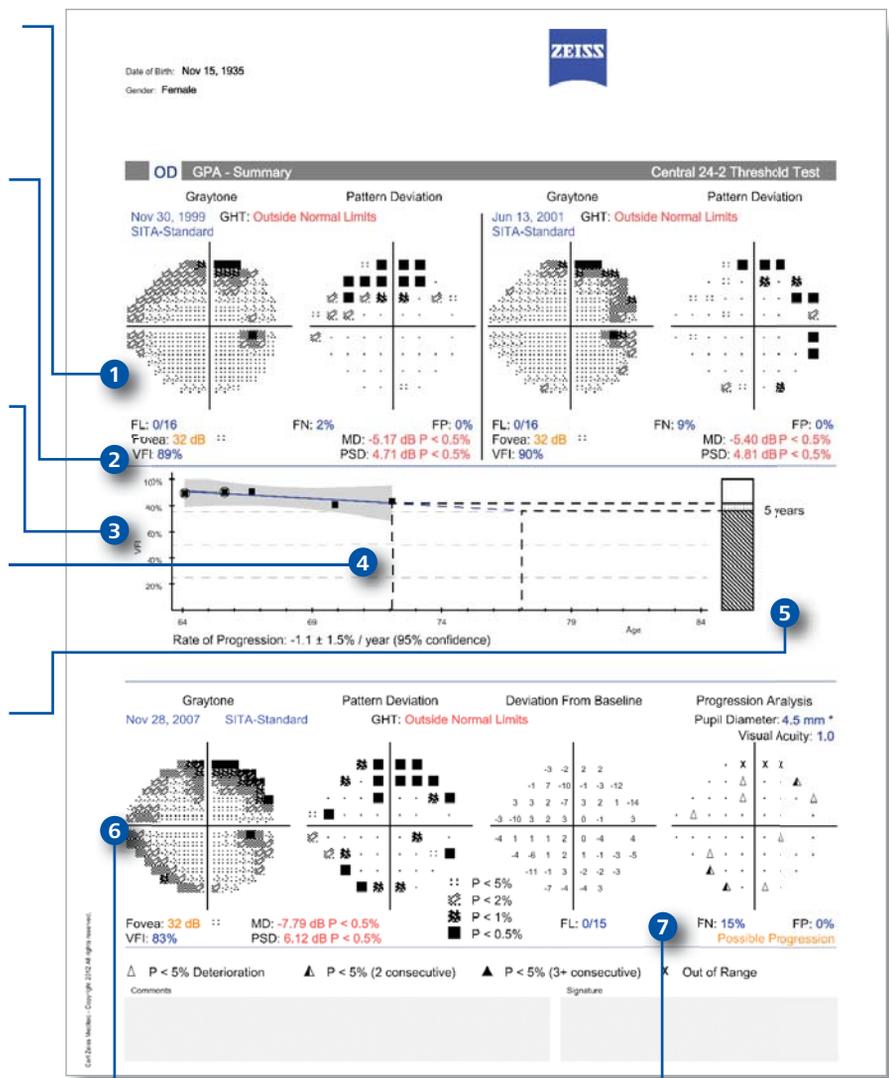
Trend analysis of patient's visual field history.

4 VFI Plot

A linear regression of VFI values plus a 3 to 5 year projection.

5 VFI Bar

A graphical depiction of remaining visual field along with a 3 to 5 year projection of current VFI regression trending.



6 Current Visual Field Summary

Complete report of current visual field using multiple parameters.

7 GPA Alert

A message to the clinician if statistically significant deterioration was identified in consecutive visits.

Interact with functional GPA and generate combined reports anywhere in your practice.

FORUM® Glaucoma Workplace.

FORUM Glaucoma Workplace provides you with gold standard, complementary diagnostic technologies to support you in solving your challenges in detecting and managing glaucoma.

- Simplify diagnosis with gold standard HFA-CIRRUS combined reports
- Quickly view test results when and where you need them
- Interact with GPA and generate HFA reports in the lane
- Save time in educating your patients

24-2 RNFL Combined Report

1 Patient Information

2 Visual Field Test Type

3 HFA Test Data

4 HFA and CIRRUS Combined Structure Function Section

5 CIRRUS OCT Exam and fundus photo section

6 Optional fundus photo

7 RNFL and Ganglion Cell Thickness Deviation Maps (GCL + IPL)

8 Symbol \triangle appears if at least one parameter is near a normative limit

9 CIRRUS Data Table with ONH Summary and RNFL Parameters

Parameter	OD	OS
Average RNFL Thickness	67µm	73µm
Rim Area	0.71mm ²	0.85mm ²
Disc Area	1.64mm ²	1.52mm ²
Average C/D Ratio	0.76	0.65
Vertical C/D Ratio	0.75	0.65
Cup Volume	0.390mm ³	0.173mm ³

This mapping was developed based on the work of Dr. David F. Garway-Heath, et al.



Glaucoma management is evolving to require a new diagnostic environment to support your clinical assessment when and where you need it. ZEISS partners with you to deliver a broad range of diagnostic solutions to the point of care.



CIRRUS™ HD-OCT
Brilliant images and applications for greater glaucoma insight



CIRRUS™ photo
Get the complete picture with the combined OCT and fundus imaging modalities in one system



VISUCAM® Digital Fundus Camera
Compact and integrated fundus imaging to visualize and document RNFL and ONH



Humphrey® Field Analyzer (HFA™)
The most advanced and accurate picture of glaucoma functional status and progression



FORUM®
Comprehensive eye care data management for better workflow efficiency



Humphrey FDT®
Detects field loss due to a variety of ocular diseases



Humphrey Matrix® 800
Frequency doubling technology detects early loss

You + ZEISS = Evolving Glaucoma Management



CIRRUS HD-OCT
Humphrey Field Analyzer



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